

A pregnant woman with long dark hair, wearing a light grey cardigan over a white tank top, is shown in profile drinking water from a clear glass. She is standing in front of a window with white trim. The lighting is soft and natural, coming from the window.

PIONEER™

Pb FILTER CARTRIDGE

**YOUR WHOLE-HOUSE LEAD
& CYST REMOVAL SOLUTION**

Available in the ONE E3-M system

 POWERED BY
ENPRESS LLC
Where Innovation Flows™

LEAD IN WATER SYSTEMS

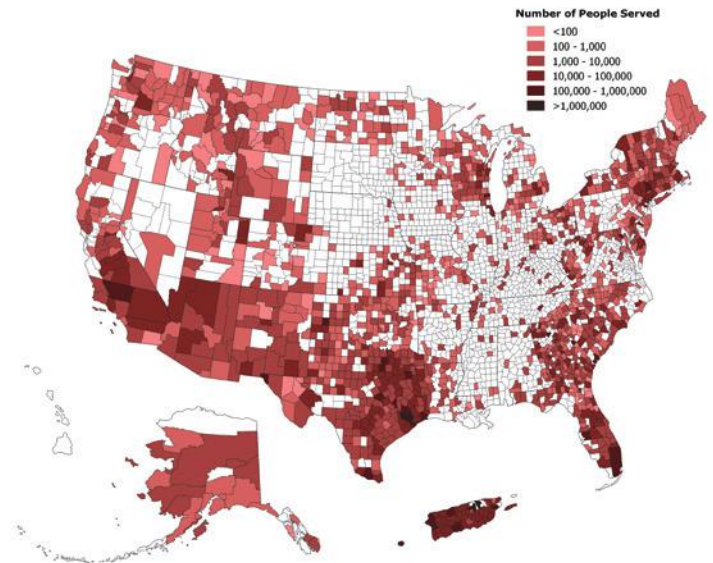
Eighteen million Americans live in communities where the water systems are in violation of the law. Moreover, the federal agency in charge of making sure those systems are safe not only knows the issues exist, but it's done very little to stop them, according to a new report and information provided to CNN by multiple sources and water experts.

The American Academy of Pediatrics states that there are no effective medical treatments for lead poisoning and that prevention of exposure is needed.

The Drinking Water Action level for lead in water is set at 15 parts per billion (ppb), but in 1994 the FDA set the maximum amount of lead allowed in bottled water at 5 ppb.

Children with lead poisoning can have learning and behavior problems, hyper activity, slow growth, and hearing loss. Symptoms like tiredness, head and stomach aches, and low iron deficiencies are often mistaken for other illnesses. The only way to find lead poisoning is through a blood test.

MAP SHOWING LEAD IN COMMUNITY WATER SUPPLIES



SOURCE: cnn.com/2016/06/28/us/epa-lead-in-u-s-water-systems/index.html

According to the U.S. Council Of Environmental Quality, the risk of developing cancer is 93% higher in people who drink or are otherwise exposed to chlorinated water. Chlorine is a potential health hazard to both children and adults.

PIONEER™ Pb REMOVES LEAD

Not only does **PIONEER Pb** remove heavy metals such as lead, it also removes and/or reduces chlorine, chloramine and other harmful contaminants in your water, including >99.95% of cysts.

Microbial cysts like Giardia and cryptosporidium can survive in cold water for several months, and can be resistant to disinfection, like chlorine, so they must be filtered out of the water supply. Because Giardia can lead to dehydration, its symptoms include diarrhea, nausea and stomach cramps. It has no long term effects.

Point-of-Use VERSUS Point-of-Entry: It's a no-brainer!

POU	POE (PIONEER Pb)
One filter capability per housing	Whole house cartridge filter
Short filter life	Long filter life for up to 100,000 gallons or 1 year
Limited coverage in the home	Removes lead, >99.95% of cysts, chlorine, chloramine, taste and odor
Typically for drinking water only	Eliminates bottle water purchases
Creates tremendous waste	Best whole house flow rate production
Lower flow rate (servicing one faucet)	Metered so homeowner knows when the filter needs to be changed, increasing safety

WHY REMOVE LEAD

The History of Lead Usage: Until it was banned in new home construction in 1986, more than 70% of cities in the US were using lead-based products for conveying water, because it was less expensive and more durable than iron. Lead pipe could be easily bent, allowing pipes to be shaped to conform to the contours of existing buildings or other structures.



NUMBER OF CITIES USING LEAD UNTIL 1986



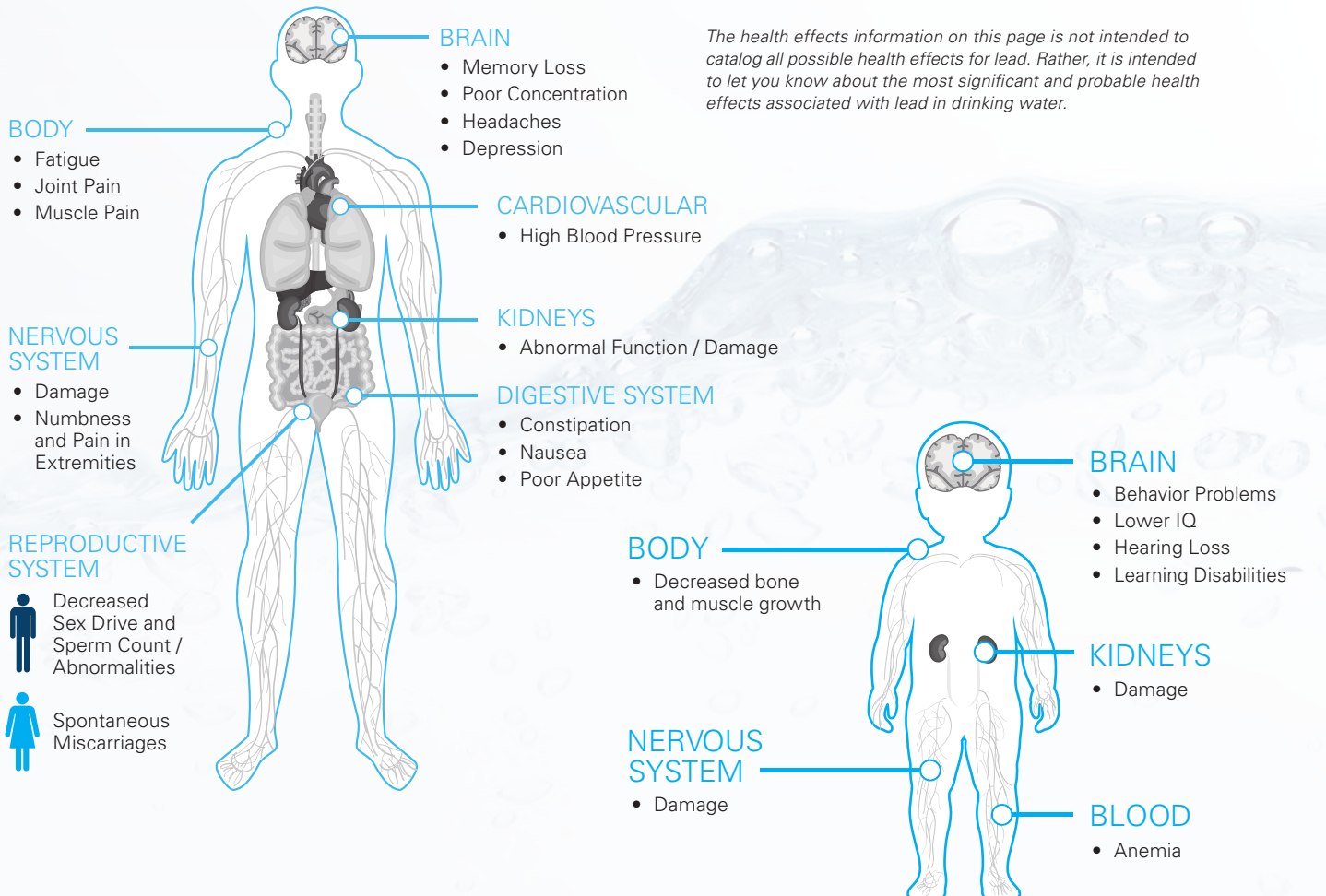
How Lead Gets into Drinking Water: Lead can enter drinking water when service lines that contain lead corrode, especially where the water has high acidity or low mineral content that corrodes pipes and fixtures. This most often happens in the pipes that carry water from the water treatment plant to water mains under the street supplying homes. Lead release is heavily influenced by the chemistry of the water delivered by the water system and by physical disturbances, such as road construction or water main replacements.

HEALTH EFFECTS OF LEAD

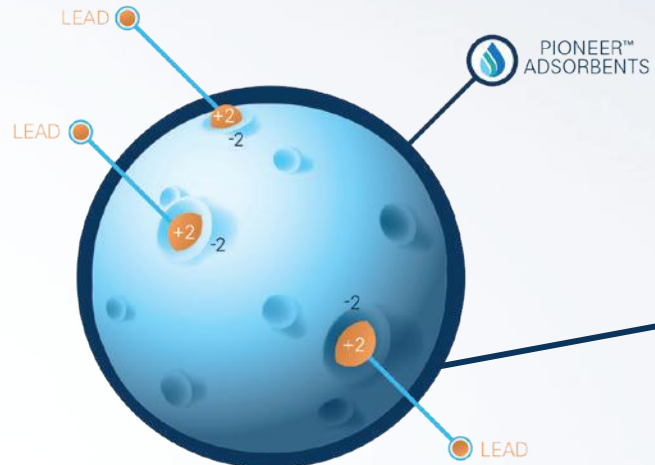
How Lead Affects Adults: Keep in mind that there is no safe level of lead for the human body and unlike other metals, it has no useful biological function. Even low concentrations of lead in water can cause a significant increase in blood lead levels and any damage is irreversible.

The Affects on Children: Lead is a potent neurotoxin which has significant effects on childhood health and development. According to the Centers for Disease Control and Prevention, lead exposure can affect nearly every system in a child's body, inhibiting the development of both physical and mental abilities.

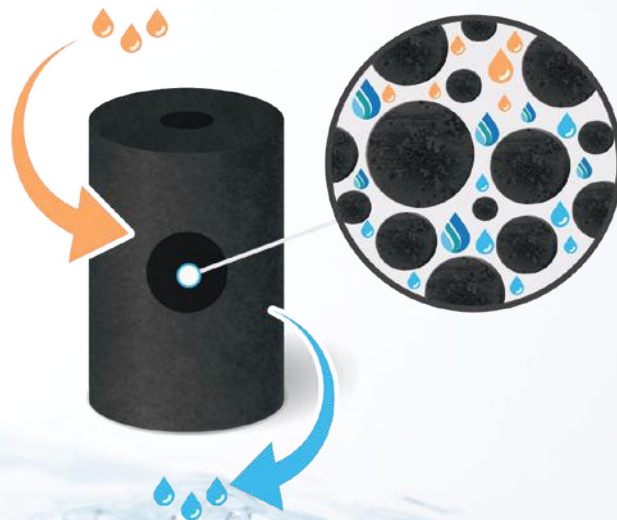
The health effects information on this page is not intended to catalog all possible health effects for lead. Rather, it is intended to let you know about the most significant and probable health effects associated with lead in drinking water.



HOW PIONEER™ Pb REMOVES LEAD



LEAD WATER ACTIVATED CARBON PIONEER™ ADSORBENTS CLEAN WATER



FILTRATION EVERYWHERE TECHNOLOGY®

PIONEER Pb provides the best filtration solutions, starting at the source and giving peace-of-mind throughout the entire home.

OTHER HARMFUL ELEMENTS PIONEER Pb REMOVES FROM YOUR WATER

PIONEER Pb removes lead, which is a colorless, odorless and tasteless metal. In addition to lead, the patented E3-M filtration system removes >99.95% of Giardia and Crypto, as well as chlorine and chloramine*.

Giardia and Crypto: Waterborne parasite that causes diarrheal disease; very resistant to chlorine-based disinfectants and is common in drinking and recreational waters.

Chlorine and chloramine: Water disinfectants added to municipal water that have negative health effects. The most harmful exposure is through inhalation and skin adsorption of steam in a shower.



*PIONEER Pb POE filters have been tested for use at standard and peak flow rates for **both** forms of lead. The Water Quality Platinum Seal and UPC shield demonstrate the certification by IAPMO R&T.

PIONEER™ Pb

PIONEER Pb is specifically designed at a 0.5-micron nominal filtration level to remove both particulate and soluble lead from your drinking water. Soluble lead is invisible, odorless, tasteless, and needs to be chemically removed from water. Particulate lead is like a tiny grain of sand that needs to be physically removed from water. The PIONEER Pb POE filter is strategically designed to remove **both** forms of lead contamination from the whole house in a single filter.

Soluble/Ionic lead: PIONEER Pb absorbents are designed to chemically react with soluble lead to create an ionic bond, kinetically removing lead from the water. Ionic bonding is a chemical bond that involves the electrostatic attraction between oppositely charged ions, and is the primary interaction occurring in ionic compounds. Ionic bonds form when a nonmetal (binder/adsorbent) and a metal (lead) exchange electrons, as they do in PIONEER Pb.

Particulate lead: PIONEER Pb filter is specifically engineered to physically remove and filter lead particles from water, which is often found as a result of corroded lead pipes.

BUILT WITH HOMEOWNER EASE-OF-USE IN MIND

EASY TO UNDERSTAND LED REPLACEMENT NOTIFICATIONS

The Real-time Dynamic LED System monitors water and flow rate and provides a visual color-coded notification to the homeowner, letting them know when to replace their filter.

**GREEN:
FILTER
GOOD**



**YELLOW:
CHANGE
SOON**

*(10% OF
FILTER LIFE
REMAINING)*



**RED:
CHANGE
NOW**



EASY FILTER REPLACEMENTS WITH NO TOOLS REQUIRED

E3-M uses state-of-the-art snap-ring technology to eliminate the need for cumbersome tools. Homeowners can easily replace the filter in their E3-M system by following a few simple steps.

1. PRESS THE RED PRESSURE RELIEF VALVE TO UNSEAT THE RING



2. REMOVE SNAP RING



3. LIFT TOP CAP



NOTES

- Meter preset at 100,000 gallons; see Installation Manual for resetting when the cartridge is replaced.
- Three AAA batteries not included for battery back-up. Change annually with filter change-out.
- Refer to Installation Manual for proper installation and product service guidelines.

TESTING PIONEER™ Pb

The NSF/ANSI 53 Drinking Water Treatment Units Health Effects standard, accredited by the American National Standards Institute (ANSI), is used to test and evaluate the effectiveness of water treatment equipment used in homes for the reduction of chemicals that may be present in drinking water, such as lead. The NSF/ANSI 53 standard contains four primary sections and is tested and certified by an accredited 3rd party certification body for Material Safety, Structural Integrity, Product Literature, and:

Section 1: Material Safety Testing: ensures that the water filter that has been designed to reduce lead from the drinking water will not add (leach) harmful contaminants to the water.

Section 2: Structural Integrity Testing: prevents water damage by ensuring that the filter is built to handle water pressure and water hammer typically found in homes. This test helps ensure products will not leak, break or crack during normal use.

Section 3: Evaluates the performance of the filter to reduce water contaminants such as lead. The lead performance test created in the NSF/ANSI 53 standard is extremely rigorous. The US EPA's action level for lead in drinking water is 15 ppb. The influent lead level for NSF/ANSI 53 testing is 150 ppb or **10 times** the allowed level. NSF/ANSI 53 also requires testing at high and low pH levels to ensure the filter can remove lead in its ionic form and particulate form. For the duration of the testing the filter must reduce the influent lead concentration below 0.005 mg/L, Enpress targeted levels below 5 ppb.

Section 4: Requires the manufacturer to include specific performance information in the product's Instruction Manual, data plate and a performance data sheet that lists the contaminants that have been tested.

This system has been tested according to NSF/ANSI 53 for reduction of lead and cyst. The concentration of lead in water entering the system (0.15 mg/L +/- 10%) was reduced to a concentration less than or equal to permissible limit (0.010 mg/L) for water leaving the system, as specified in NSF/ANSI 53.

SPECIFICATIONS

ONE E3-M Name and Part Number	Size and Micron Rating	Rated Capacity and Flow Rate	Peak Flow and % Reduction of Lead and PFOA/PFOS	Chlorine/chloramine Taste and Odor Reduction Capacity*	Pressure Drop Spec
ONE E3-M System and PIONEER Pb Filter					
ONE E3-M System CTA0840BBKP5-06L00	8" x 40" / 0.5 Microns	Lead Reduction and PFOA/PFOS 100,000 gallons @ 4.51 GPM (378,541 Liters @ 17.1 lpm) @ 99.62% lead reduction @ 97.9% PFOA/PFOS reduction	8 GPM (30.2 lpm) @ 99.62% lead reduction @ 97.9% PFOA/PFOS reduction >88,000 gallons at 8 GPM* (333,116 Liters @ 30.2 lpm)	>300,000 gallons @ 15 GPM (1,135,533 Liters @ 56.8 lpm) with greater than 90% reduction, estimated capacity using 2 ppm of free chlorine >150,000 gallons @ 8 GPM (567,812 Liters @ 30.3 lpm) with greater than 85% reduction, estimated using 3 ppm of chloramine	9 psid @ 4.51 GPM

Replacement Cartridge Filters Are Listed as PIONEER Pb—0.5 Micron High Capacity Carbon Block // PART NUMBER: CT-05-CB-AMYCL

*Claims are not performance tested by IAPMO or NSF. Performance claims are based on independent laboratory and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and application. Results may vary.

IMPORTANT

DO NOT USE extra lubricants, unapproved sealants and tools to tighten hand-tighten only parts. Use of tools other than hand-tighten only parts voids warranty. Testing was performed under standard laboratory conditions; actual performance may vary. Flush the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water.

PERFORMANCE

Performance claims are based on independent lab results and manufacturer's internal test data*. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Performance claims are based on a complete system, including a filter, housing, and connection to a pressurized water source. This filter must be operated according to the system's specifications in order to deliver the claimed performance. It is essential to follow operational, maintenance, and filter replacement requirements as directed for each application for this filter and system to perform correctly. Read the Manufacturer's Performance Data Sheet accompanying the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water.

WARRANTY

LIMITED LIABILITY: ENPRESS LLC makes no warranties of any kind, expressed or implied, statutory or otherwise, and expressly disclaims all warranties of every kind, concerning the product, including, without limitation, warranties of merchantability and fitness for a particular purpose, except that this product should be capable of performing as described in this product's data sheet. ENPRESS LLC's obligation shall be limited solely to the refund of the purchase price or replacement of the product proven defective, in ENPRESS LLC's sole discretion. Determination of suitability of this product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this Limited Liability.

If you have any questions regarding your water filter, contact your local dealer, OEM, or the manufacturer at the following:

MANUFACTURED BY



For more information, visit enpress.com or onefiltration.com

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Phone: 866.859.9274 // Fax: 440.510.0202 // info@enpress.com

ENPRESS®, ONE®, FILTRATION EVERYWHERE TECHNOLOGY®,
E3®, E3-M® AND PIONEER™ are trademarks of ENPRESS, LLC.

CERTIFICATIONS



The ENPRESS CTA08388BxxP5-06Lyyy, CTA08408BxxP5-06Lyyy and CTA08428BxxP5-06Lyyy are certified by IAPMO R&T to NSF/ANSI 53 for Material Safety, Structural Integrity, and for the reduction of claims specified on the Performance Data Sheet.

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