

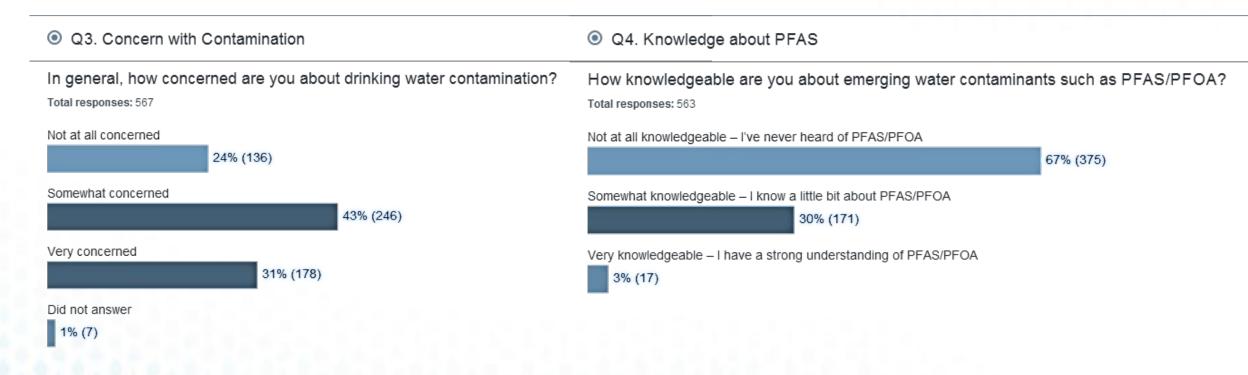


PFAS Communication

Ruben Rodriguez Senior Director, External Communications American Water

Insights into Customer Communication Needs

- Customers are concerned about drinking water contamination but may not be familiar with PFAS.
- AW Customers were surveyed in 11 states.





WRF Project 5124 – PFAS Communication Toolkit

https://www.waterrf.org/research/projects/pfas-one-water-risk-communication-messaging-water-sector-professionals

PFAS One Water Risk Communication
Messaging for Water Sector Professionals

Research Investment Completion Year
\$260,080 2022

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Water Research Foundation "PFAS One Water
Risk Communication Messaging for Water Sector Professionals"

- The Water Research Foundation (WRF) published PFAS communication materials in 2022 (Project 5124), developed with input from water industry experts, stakeholders, and PWS customers
 - See "PFAS Communication Guidance" Advances in Water Research, July-Sept, Vol. 32, No. 3
- WRF Toolkits help guide water systems to design their own Frequently Asked Questions (FAQs) and other messaging for sharing with customers, stakeholders, and on websites
 - UCMR 5 Toolkit (December 2022)
 - One Water Toolkit (July 2022)

Materials are available by registering for a free Public Plus account on the WRF website at: https://www.waterrf.org/research/projects/pfas-one-water-risk-communication-messaging-water-sector-professional-



Office of Water

...and EPA has links to the materials.

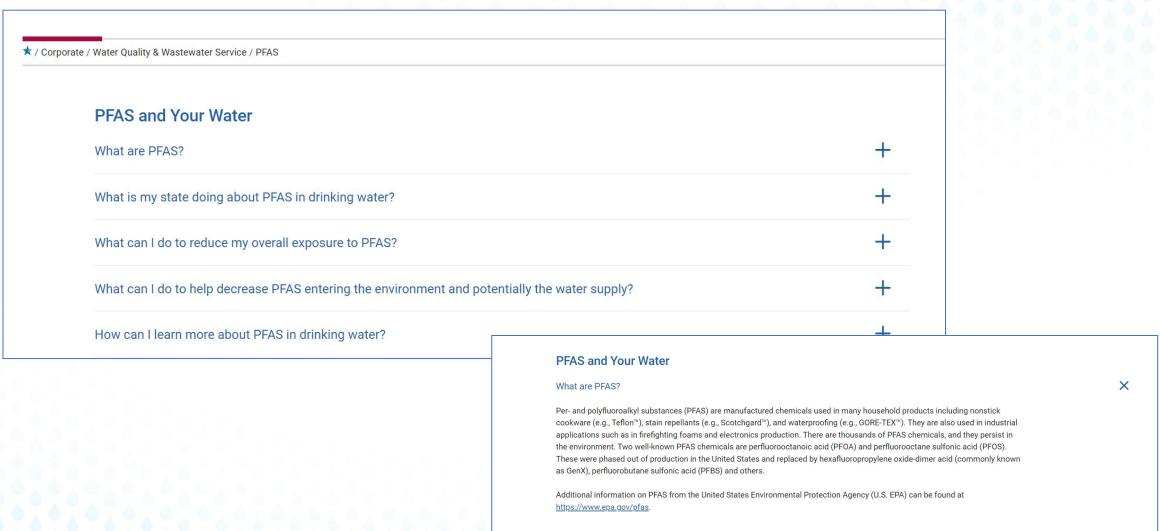


option.

registration using

the Public Plus

American Water PFAS Web Page





State Specific PFAS Web Pages



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Customer Service .

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What are PFAS?

What is Pennsylvania American Water doing about PFAS in drinking water?

Pennsylvania American Water has performed sampling to meet state developed limits for PFAS and better understand the overall occurrence of certain PFAS in drinking water sources. Sampling also allows Pennsylvania American Water to be better prepared as U.S. EPA is currently developing drinking water standards for six PFAS. Pennsylvania American Water will take appropriate actions to meet any new regulations.

Our PFAS results are included in our Consumer Confidence Reports, which are available here. You can find the report for your water system using the Zip Code Search or by clicking on the system name.

The Pennsylvania DEP has established state drinking water limits of 14 parts per trillion (ppt) for PFOA and 18 ppt for PFOS.

Additionally, in 2022, U.S. EPA set health advisory levels for four PFAS chemicals – PFOA (0.004 ppt), PFOS (0.02 ppt), GenX (10 ppt), and PFBS (2,000 ppt). Based on current analytical methods, however, the health advisory levels for PFOA and PFOS are below the level of both detection (determining whether or not a substance is present) and quantitation (the ability to reliably determine how much of a substance is present). This means that it is possible for PFOA or PFOS to be present in drinking water at levels that exceed health advisories even if testing indicates no level of these chemicals. Finally, PFAS chemicals are unique, so two PFAS chemicals at the same level typically do not present the same risk. Therefore, you should not compare the results for one PFAS chemical against the results of another.



Consumer Confidence Reports



PFAS MONITORING

Before the Pennsylvania Department of Environmental Protection set maximum contaminant levels for PFAS, Pennsylvania American Water performed voluntary sampling to better understand the occurrence of certain PFAS in drinking water sources. This voluntary sampling effort was necessary because protecting public health is always the number one priority. Collecting PFAS data from all our drinking water sources in the state has allowed us to compare our results against health advisory levels set by the EPA, and MCL's set by the state.

PFAS Chemicals					
Parameter	Units	Year Sampled	Average Result	Range Detected	Typical Source
Perfluorooctanoic Acid (PFOA)	ppt	2021	6.28	4.0 to 7.7	Manufactured chemical(s); used in household goods for stain, grease, heat and water resistance
Perfluorooctanesulfonic Acid (PFOS)	ppt	2021	2.95	2.5 to 3.3	

In 2022, U.S. EPA set health advisory levels for four PFAS chemicals – PFOA (0.004 part per trillion (ppt)), PFOS (0.02 ppt), GenX (10 ppt), and PFBS (2,000 ppt). These are interim heath advisory levels and will remain in place until EPA establishes a National Primary Drinking Water Regulation. Based on current analytical methods, however, the health advisory levels for PFOA and PFOS are below the level of both detection (determining whether or not a substance is present) and quantitation (the ability to reliably determine how much of a substance is present). This means that it is possible for PFOA or PFOS to be present in drinking water at levels that exceed health advisories even if testing indicates no level of these chemicals.

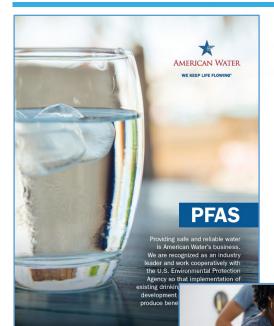
On January 14, 2023, changes to PA Code 25, Chapter 109 were published in the Pennsylvania Bulletin establishing MCLs and monitoring requirements for PFAS. The regulation sets a maximum contaminant level of 14 ppt for PFOA, and 18 ppt for PFOS. Initial required monitoring will begin in January 2024.

Finally, PFAS chemicals are unique, so two PFAS chemicals at the same level typically do not present the same risk. Therefore, you should not compare the results for one PFAS chemical against the results of another.

For more information on PFAS, please visit https://www.amwater.com/resources/pdf/american-water-PFAS.pdf.



PFAS Brochure



PROTECTING PUBLIC HEALTH THROUGH DRINKING WATER STANDARDS FOR PFAS

- Environmental Protection Agency's (U.S. EPA) efforts to protect public health by proposing national drinking water standards for PFAS. These contaminants are arding water quality, quantity, and reliability. That the American Water remains committed to being a
- lation to assess the 4.0 parts per trillion (ppt irements for PFOA and PFOS and the applicati ne Hazard Index approach for PENA, PERS, PEHxS, and
- facilities and processes to remove PFOA and PFOS at drinking water facilities to levels required by the U.S. EPA's proposal exceeds \$47 billion, which is approximately \$35 billion above what would be requise meet current state-established PFAS limits. (Data
- \$700 million annually for operating costs, which is approximately \$500 million more than what would be ecent study conducted by Black & Veatch on behalf of
- ikely have more than 100 of our existing drinking wa reatment facilities that will need to be upgraded to

QUESTIONS AND ANSWERS

Per- and polyfluoroalkyl substances (PFAS) are manufactured chemicals Per etti poprioriteatily solosatileki (PHS) atte institutioutus direktiini mary householi productis including nonsticki historically used in mary householi productis including nonsticki cockware (e.g., Taffori^M), sitan inspellanta (e.g., Soctoligaet^M), and waterpooring (e.g., GMETEV^M), hiya en even esia to used in industrial applications such as in fratigifative pare or even also used in industrial applications such as in fratigifative of promotivation and electronics in industrial applications such as in fratigifative pare or even also used in the production and the presist in the environment. The most well-known are perforit cockariolic acid (PFS) and performance claims of the production and the production and performance and PFSS).

Additional information on PFAS from the United States Environmenta Protection Agency (U.S. EPA) can be found at https://www.epa.gov/

HAS ILS EPA SET DRINKING WATER LIMITS FOR PEAS?

In March 2023, LS. 1984 announced a proposed collision for regulation to set limits for in PRA. Amount of Near submitted comment on the proposed direline water regulation to set limits for in PRAs. Amontonian Nation submitted comment on the proposed direline water regulation based on our automistic experience in designing and installing treatment for groundwater and various water, notunity treatment for PRAs that allows so to meet state branchards, and implementing direking water regulations comes our footprint.

WHAT ARE PFAS?

rulemaking and what that means for our customers an communities. Our scientists

and engineers are experts in addressing this importan

of researching and addressing contaminants of concern in ou

on water quality and treatmen technologies and processes that can effectively remove PFAS from Lauren Weinrich, Ph.D compliance by all water utilities—whether privately or municipally owned—while protecting customers and communities from the high cost of monitoring and mitigating PFAS. This includes advocating for policies that hold polluters accountable.

American Water's operating utilities in most of ou states are currently plaintiffs in the Multi-District Litigation against multiple PFAS manufacturers be-we firmly believe that the ultimate responsibility for

- the U.S. EPA, Congress, and other decision-makers to implement policies that will:
- · keep harmful PFAS out of our drinking wate
- ensure all water and wastewater utility providers any and all Federal and/or state funding related to
- utilities as federally mandated requirements that are recoverable in customer rates through expedited

American Water's business, and we look forward to working cooperatively and collaboratively with the U.S. EPA, Congress, regulators, and policymakers so that

Updated brochure developed to help educate on **PFAS**

- Commonly asked questions and answers
- Key points on how we're working to protect public health through drinking water standards
- Expertise and experience
- Collaboration with others on PFAS
- Available at amwater.com as a downloadable PDF

past. Here are two examples

- Picatinny Arsenal, NJ: In January 2018 made recommendations to remove PFOA/PFO: ntaminants and were awarded a contract in Apri American Water-led team kept the project ahear of schedule, completing the design, permitting. just 38 days. Sample results were returned that showed PFOA/PFOS were at non-detect levels across the system, highlighting the effectiveness of the GAC treatment system.
- Sacramento Region, CA: California American Water applied for grant funding for PFAS treatment to address PFOA in a well in the Suburban-Rosemont system in July 2016, and in March 2017, the notice to proceed on construction of a treatment plant was issued Four months later, California American Water learned that it was denied state grant funding due to lack of state guidance on the contaminant. However, the company continued with construction, and in September 2017, California American Water placed its new PFAS treatment

WHAT IS AMERICAN WATER DOING TO ADDRESS PFAS AND PROTECT OUR CUSTOMERS?

- granular activated carbon (GAC) to compare PFAS removal and media performance. American Water's research group is actively involved in externally-funded projects related to the detection converses and resourced PGAS.
- compounds from five locations that have elevated source water levels.

- of environmental protection, EPA, CDC, American Water Works Association, Water Research
- Research Foundation project, entitled "Investigation of Treatment Alternatives for Short-Chain Poly and

FOR MORE INFORMATION



Thank you!

