



# RK WATER YOUR PFAS TREATMENT EXPERTS

## RK WATER

### YOUR PFAS TREATMENT EXPERTS

Current treatment methods effective in removing PFAS from drinking water sources and groundwater include activated carbon, anion exchange resins, and reverse osmosis (RO) and nanofiltration (NF) technologies. Depending on treatment goals, space requirements, and the complexity of disposal options, RK Water can guide you through treatment selection, system sizing and ongoing operation. As water treatment experts, RK Water will:

- Perform initial PFAS sampling and testing through DOD certified laboratories
- Evaluate the characteristics of the PFAS requiring treatment
- Take into account site-specific conditions, sustainability of the treatment methods, and cost-effectiveness of viable treatment options
- Perform CAPEX vs. OPEX evaluation of competing treatment options
- Design and install temporary or long-term equipment including treatment media
- Operate and maintain equipment and treatment systems including media changeouts
- Compliance testing and reporting
- Manage disposal of media

The end result is the reliable treatment of PFAS contamination to desired treatment goals whether they be below Health Advisory Limits (HAL) or non-detect. RK Water has you covered with in-house technical expertise. As RK Water is not committed to one proprietary product line, you are ensured that you will receive the best treatment options available in the market, and client-focused attention throughout the process.

## PFAS DISPOSAL SERVICES

Disposal of PFAS contaminated waste is a complex issue. PFAS chemicals unique volatility, solubility and environmental mobility and persistence present unique challenges. RK Water will coordinate and handle your disposal needs taking into account the type of waste, source of the waste, PFAS loading and volume, among other factors. RK Water will navigate and facilitate the logistics associated with disposal of PFAS laden waste.

## CONTACT RK WATER TODAY TO DISCUSS HOW WE CAN SOLVE YOUR PFAS PROBLEMS.

 **CALL US AT:**  
720.314.1703

 **EMAIL:**  
[STEVEN.CUMMINGS@RK-WATER.COM](mailto:STEVEN.CUMMINGS@RK-WATER.COM)

 **ADDRESS:**  
3800 XANTHIA STREET, DENVER, CO

## EPA UPDATE

ON JUNE 15, 2022, THE EPA RELEASED FOUR INTERIM UPDATED DRINKING WATER HEALTH ADVISORIES FOR PFAS. THE UPDATED ADVISORY LEVELS INDICATE THAT SOME NEGATIVE HEALTH EFFECTS MAY OCCUR WITH CONCENTRATIONS OF PFOA OR PFOS IN WATER THAT ARE NEAR ZERO. THESE INTERIM HEALTH ADVISORIES WILL REMAIN IN PLACE UNTIL THE EPA ESTABLISHES A NATIONAL PRIMARY DRINKING WATER REGULATION.

# PFAS

## WHAT ARE THESE MAN-MADE TOXIC CHEMICALS?

Per- and polyfluoroalkyl substances (PFAS) are a class of man-made chemicals including more than 4,700 PFAS compounds to date; with the number increasing as the industry invents new forms of this type of chemical. Currently, the U.S. Department of Defense has 175 PFAS chemicals covered by the Toxics Release Inventory list pursuant to the National Defense Authorization Act.

PFAS are not regulated under the Safe Drinking Water Act or any U.S. environmental laws such as the Clean Air Act and the Clean Water Act. The scientific community is recognizing and evolving its understanding of the long-term effects of PFAS in the environment and on human health. To date, sixteen states have adopted their own public health advice and enforceable standards for various types of PFAS in drinking water and other sources. Under the Safe Drinking Water Act, in 2009, the Environmental Protection Agency (EPA) Office of Water established a provisional health advisory (PHA) of 400 parts per trillion for Perfluorooctanoic acid (PFOA). In 2016, EPA established a non-enforceable lifetime Health Advisory Limit (HAL) of 70 parts per trillion for the sum of PFOA and Perfluorooctanesulfonic acid (PFOS) in drinking water.

# EPA PFAS ACTION PLAN

## HOW ARE THEY BEING REGULATED?

In October 2021, EPA announced the agency's PFAS Strategic Roadmap. The roadmap identifies timelines the EPA plans to take action and commits to bolder new policies to safeguard public health, protect the environment and hold polluters accountable. The roadmap includes steps to safeguard communities from PFAS contamination and health effects. Key dates below:

- **April 2021:** EPA establishes PFAS council
- **December 2021:** EPA publishes the fifth Unregulated Chemical Monitoring Rule (UCMR5)
- **Spring 2022:** Publish Health Advisory Limits for GenX, PFBA, PFHxA, PFHxS, PFNA, and PFDA chemicals
- **Summer 2022:** Restrict PFAS discharges from industrial sources
- **Winter 2022:** Publish final recommended ambient water quality criteria for PFAS for aquatic life and human health
- **Fall 2023:** Establish a national primary drinking water regulation for PFOA and PFOS

## UNREGULATED CONTAMINANT MONITORING RULES (UCMR)

In October 2021, the EPA finalized the fifth UCMR rule to establish nationwide monitoring of a subset of PFAS chemicals in drinking water. The rule includes sampling for 29 per- and PFAS in all drinking water systems serving between 3,300 and 10,000 people. The sampling will begin in 2023 and continue through 2025. The data gathered will be used to develop health-based standards and future PFAS regulations, while allowing states and local partners to make protective public health decisions by researching, restricting and remediating PFAS contamination.

## PFAS SOURCES



PHOTOGRAPHY



NON-STICK COOKWARE



FIREFIGHTING FOAM



PESTICIDES



STAIN RESISTANT PRODUCTS



PAINTS



PERSONAL CARE PRODUCTS



FAST FOOD PACKAGING



WATER™

**RK-WATER.COM**

**303.355.9696**

**3800 XANTHIA STREET  
DENVER, CO 80238**



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