

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

WHY IS IT BAD? WHAT IS IT? HOW CAN WE GET RID OF IT?

WORDS YOU HEAR ON THE NEWS:

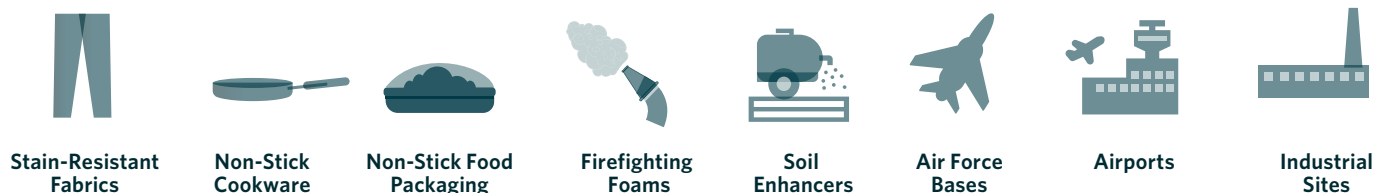
Perfluoroalkyl Substances aka. PFAS

PFAS is a family of about 4000 man-made chemicals. The most popular members of the family are found in non-stick cookware, some fast-food wrappers, stain-resistant clothing, carpeting, firefighting foam, and occasionally in pre-packaged food.

PFOA
PFOS
PFHpA
PFHSA
PFHxS
GenX
+ Others

Related names
in the PFAS family

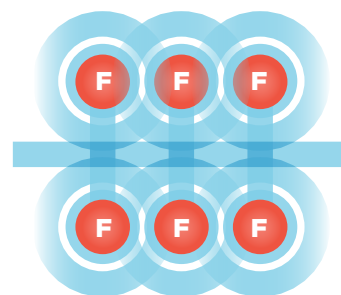
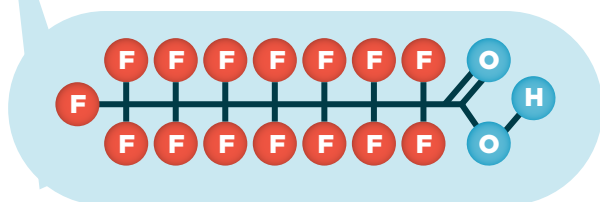
PFAS CAN BE FOUND IN OR AROUND:



In water, PFAS can be found in rivers, lakes, streams, aquifers, and in municipal and private wells.



The chemical bond of PFAS is so strong that it takes decades or longer to break down.



THEY'RE BAD BECAUSE:

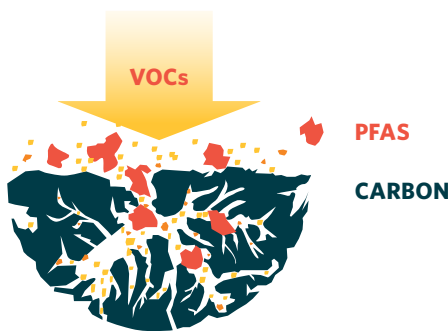
There is evidence that prolonged exposure to PFAS can lead to adverse health effects. If humans or animals ingest PFAS, it can be absorbed and can accumulate in the body.

HOW DO WE GET RID OF IT IN THE ENVIRONMENT?

The two most common methods are **carbon** and **resin**. Evoqua has effective solutions using both treatment options determined by the application and local water chemistry.

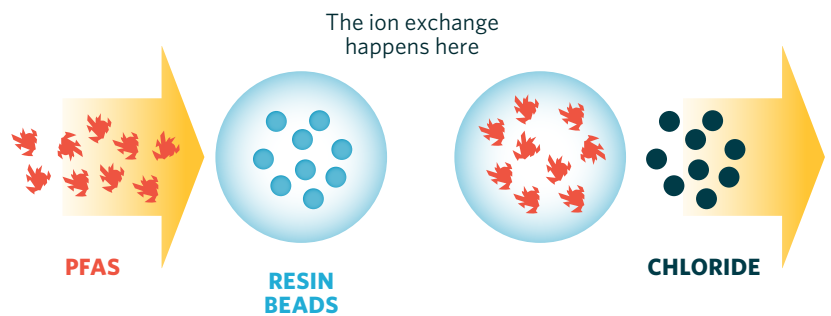
CARBON

Carbon is very effective at removing Volatile Organic Contaminants (VOCs) using adsorption. It has microscopic cracks and fissures which trap the long-chain PFCs. Carbon is so effective the EPA has named it a best available technology.



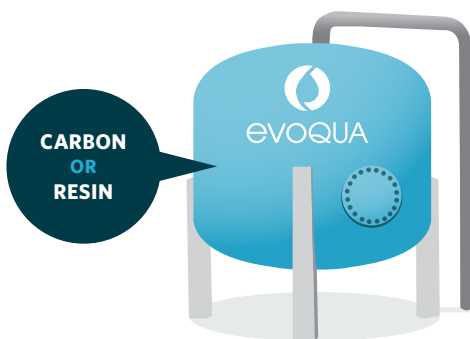
RESIN

Resin beads are created specially for trapping PFAS and exchanging ions to alter the chemical makeup of the water. This process is called ion exchange.



VESSEL SYSTEMS

The carbon or resin media are contained in vessels that vary in size depending on the application.



MUNICIPAL & INDUSTRIAL BENEFITS

Municipal and industrial customers benefit from clean, PFAS and other contaminant-free water by using our carbon and resin solutions.

Communities benefit from clean drinking water and industry benefits from maintaining compliance along with an environmentally-friendly treatment process.

