



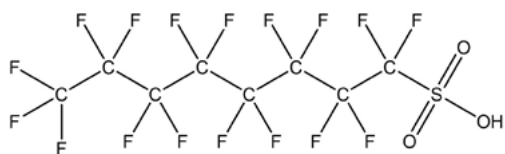
# TURNING COMPLEXITY INTO CONFIDENCE

PFAS Analysis Solutions

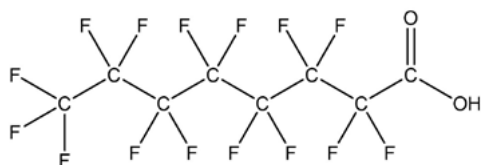
# Detecting PFAS

## Monitoring Risks Through Analysis

Per- and polyfluoroalkyl substances (PFAS) are a large group of synthetic chemicals that have been used in industrial and consumer products since the 1930s. These chemicals are used to make products that resist heat and chemical reactions and repel oil, stains, grease, and water. PFAS have a detrimental impact on both the environment and public health.



Perfluorooctane Sulfonic Acid (PFOS)



Perfluorooctanoic Acid (PFOA)

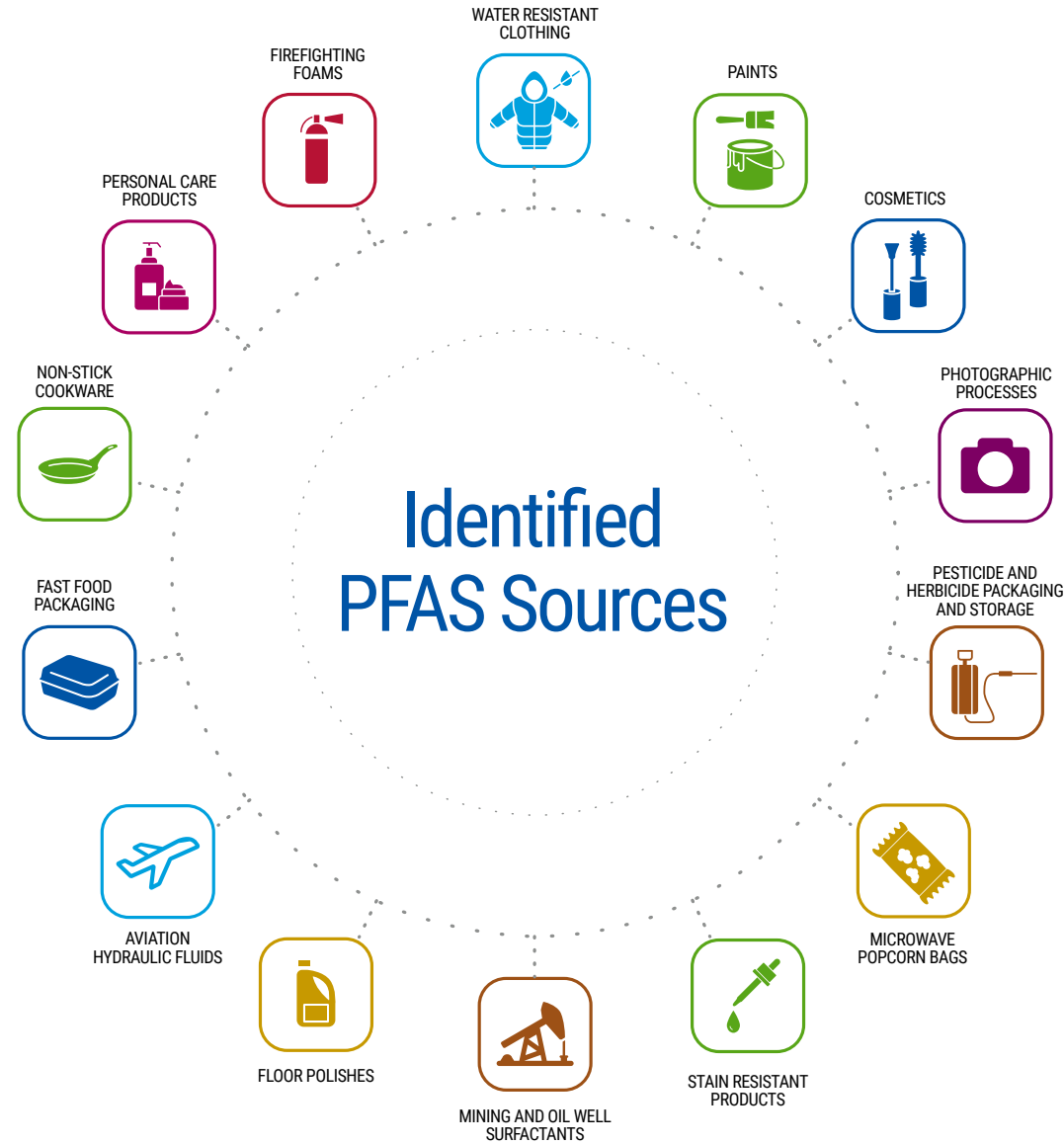
### Unfortunately, PFAS are Here to Stay

PFAS all contain bonds between carbon and multiple fluorine atoms, one of the strongest known. This property makes these chemicals highly resistant to environmental degradation, thus earning them the nickname "forever chemicals."

# PFAS are Everywhere

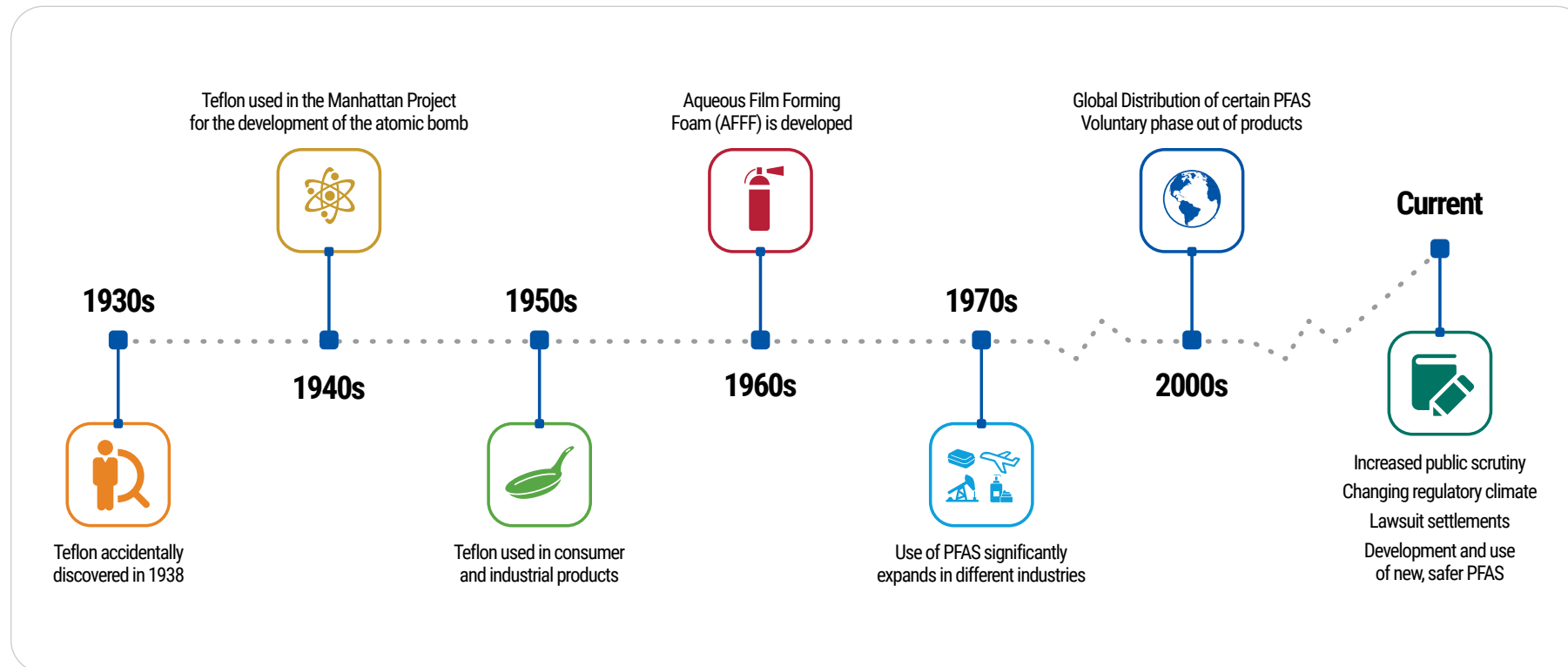
PFAS are a group of nearly 15,000 synthetic chemicals. Due to their widespread use, release, and unsound disposal, these chemicals have been detected virtually everywhere, including soil, surface water, the atmosphere, the deep ocean, and even human tissues.

Contamination in drinking water is a problem because PFAS are water-soluble, highly mobile, and can migrate into surface soils, leach into groundwater and surfaces, ultimately making their way into drinking water and the food chain.



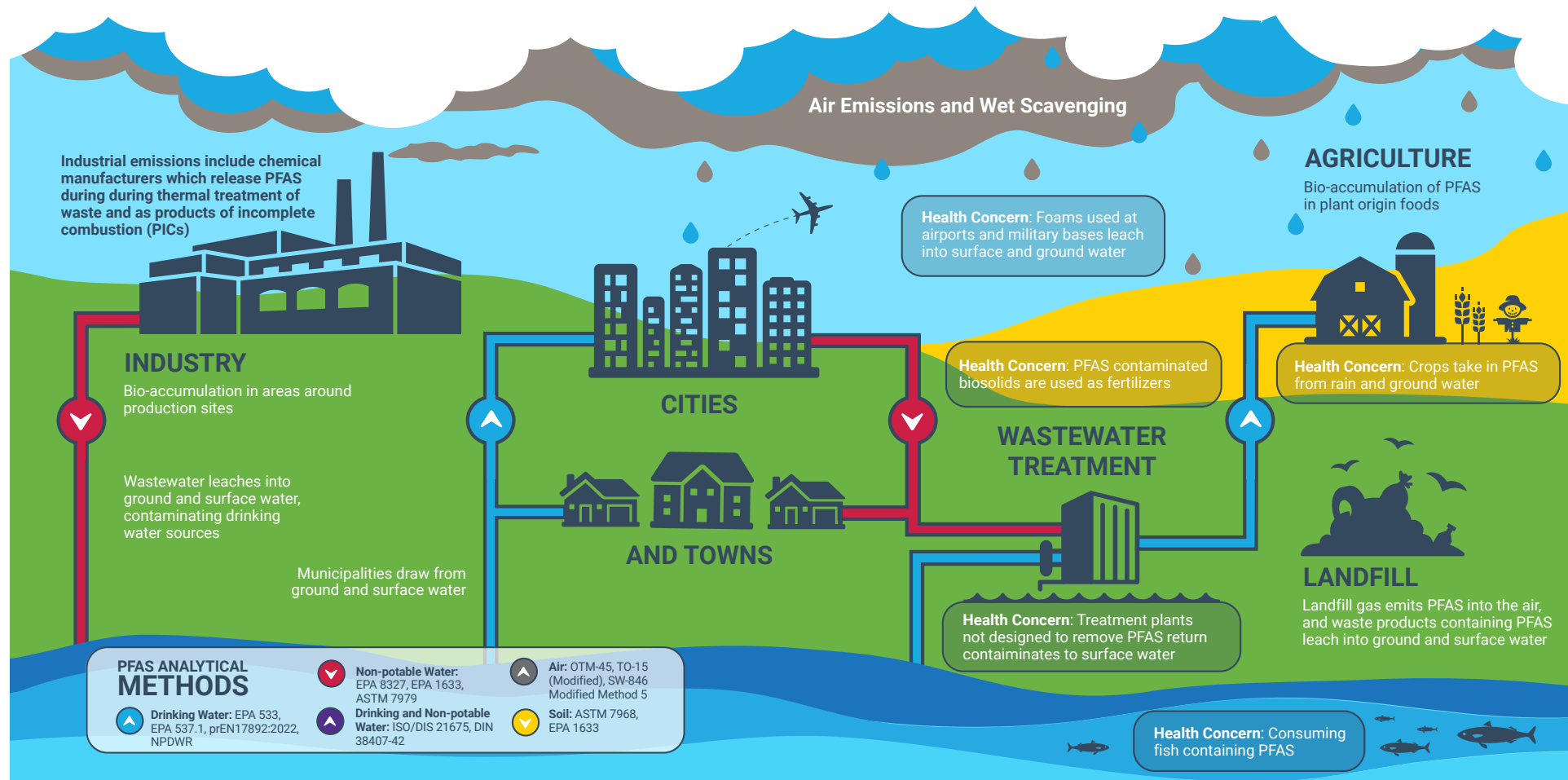
# From Discovery to Scrutiny: A Timeline on PFAS

PFAS are an environmental pervasive issue and their analysis helps us learn from our past to protect our future. Widespread testing and investigation of these environmental contaminants is leading to greater awareness, regulatory actions, and their removal from commercial products.



# Analytical Methods for Detecting PFAS

PFAS make their way through various industrial operations and ecosystems to enter the human food chain. Therefore, detecting PFAS is the first step in mitigating risks to health and to the environment. In the diagram below you will see many of the regulatory methods available to do so.



# Increasing Our Understanding Through Analysis

Detection and quantification of PFAS informs future decisions on how to best protect both environmental and human health.

For regulatory and contract testing labs performing PFAS analysis that want to achieve compliance, reduce instrument maintenance, increase laboratory efficiency, and futureproof against evolving complex matrix requirements, our LC/MS/MS systems provide compliant and robust performance for complex matrices. The StayClean™ and HSID™ technologies help reduce ion source contamination while supporting lab efficiencies with uptime from reduced source cleaning.



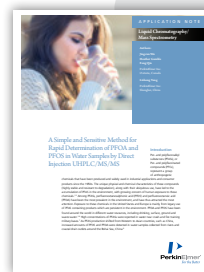
QSight® Triple Quad LC/MS/MS

# Advance Your Knowledge

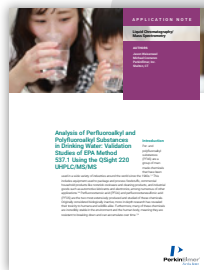
Our Application Team helps labs face changing regulations by providing scalable, validated method implementation. The following application notes provide valuable insight into the performance, abilities, and applications of our solutions when testing water, soil, and other environmental elements for PFAS.



**Learn about a fast and robust method for the analysis of all analytes listed in EPA Method 8327.**



**Discover an excellent method for determining trace amounts of PFOA and PFOS in drinking and surface water samples.**



**Discover an excellent system for the application of EPA Method 537.1 with ample sensitivity to measure all analytes.**



**Discover a comprehensive solution for the analysis of PFAS in drinking water by large volume direct injection, following EU Drinking Water Directive 2020/2184.**



**Explore an optimized approach for the analysis of perfluoroalkyl and polyfluoroalkyl substances in aqueous samples by EPA Method 1633.**



**This study, in collaboration with the University of Maryland, reports results of the validation of EPA Method 1633 for aqueous matrices.**

# Consumables Built for Your Instruments

For laboratories performing PFAS analysis, reliable consumables are a must. Give your laboratory the benefits of cutting-edge instrumentation, consistently excellent consumables, and the industry's largest, most trusted service and applications support network.



[LC-MS Consumables](#)

[Chromatography Consumables Catalog](#)



# Increase Productivity, Reduce Downtime

Imagine... an instrument in your lab is down unexpectedly and samples are piling up. With no ability to complete your analyses and keep your lab running efficiently, you are left needing help.

We have all been in this position. That is why we provide dependable laboratory service and support coverage across a complete portfolio of plans that works with you to address your unique needs and keep your lab up and running with confidence.

We offer you expert service, specialized training, and professional application and software support. With the quickest response times and highest first-time fix rates, our field service engineers, technical service, and research and development teams are here at your disposal to ensure maximum uptime.

You need your instruments to be reliable and running with minimal downtime, and you want flexible service agreements that are easy to comprehend. We understand, and we are here to help.

Feel secure in maintaining PerkinElmer equipment.

Our plans are designed to:

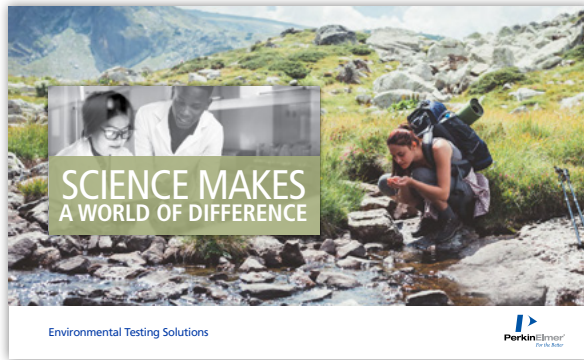
- Optimize for uptime
- Ensure laboratory productivity
- Ensure critical maintenance requirements are not compromised
- Keep you compliant with regulatory standards

Our service plans guarantee a rapid response from our dedicated world-class engineers who are recertified on an ongoing basis to ensure top-notch results, even in the most complex laboratory environments.



# Helpful Links and Information

This content will help you discover simple, effective solutions to help your lab meet new and evolving testing needs.



[Environmental Testing Solutions Brochure](#)



[Microplastics Analysis Brochure](#)



[Drinking Water Analysis Brochure](#)



[Soil Testing Solutions Brochure](#)



[Outdoor Air Monitoring Solutions Brochure](#)



[Drinking Water Analysis Webinar Series](#)

[For more information on our PFAS Analysis Solutions, visit www.perkinelmer.com/pfas](http://www.perkinelmer.com/pfas)

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