

BeyondPFAS  
by  VEOLIA

**End-to-end PFAS treatment  
and management solutions**  
for a safer, cleaner future

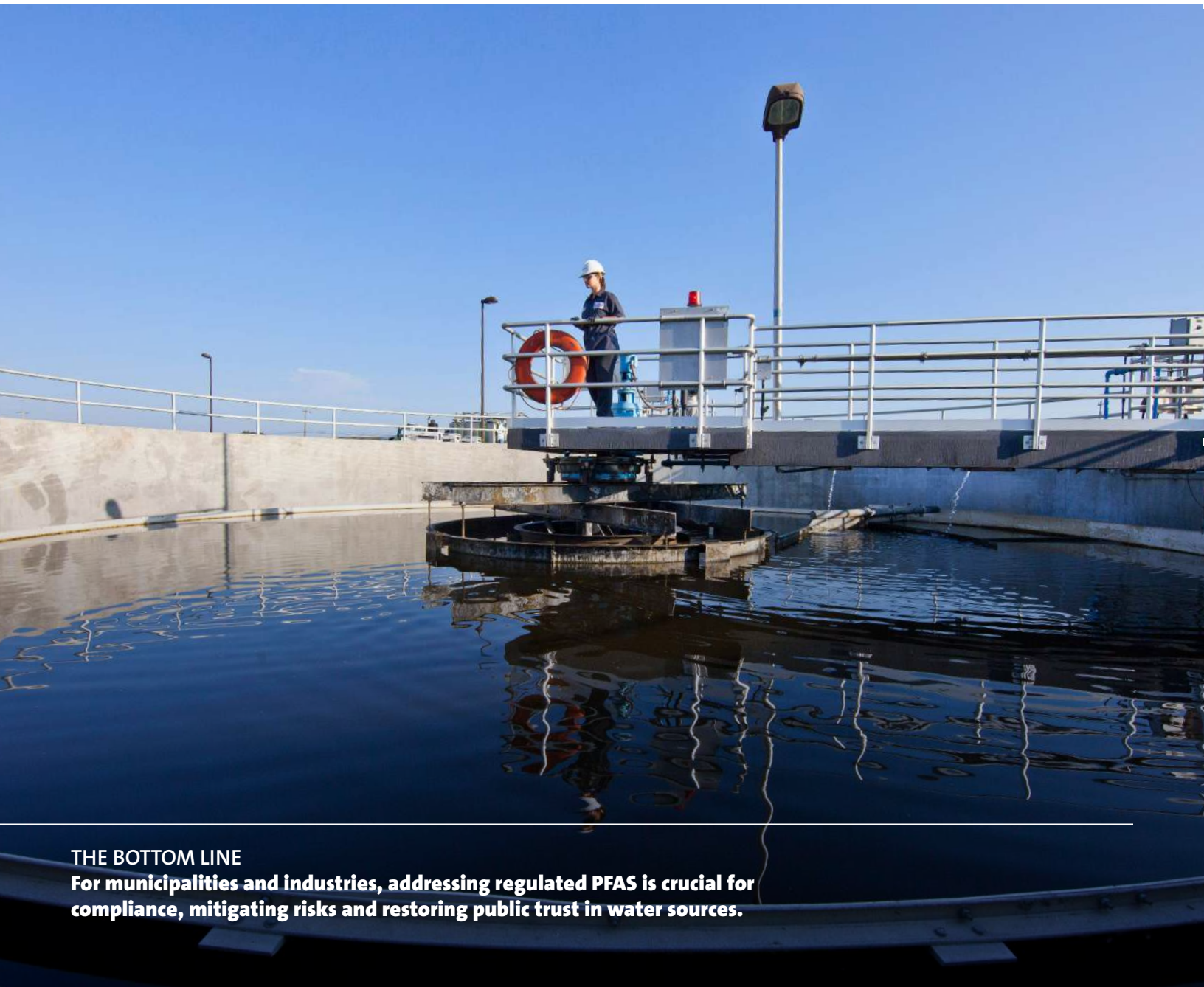


 VEOLIA

# PFAS: A global concern

PFAS (per- and polyfluoroalkyl substances) are found everywhere in our environment. Some of them are a pressing environmental and public health concern, impacting drinking water supplies, ecosystems and communities globally.

Whether in water, soil, waste or solids, these compounds pose significant challenges, from widespread contamination to complex treatment requirements and disposal considerations — all in the context of evolving regulations.



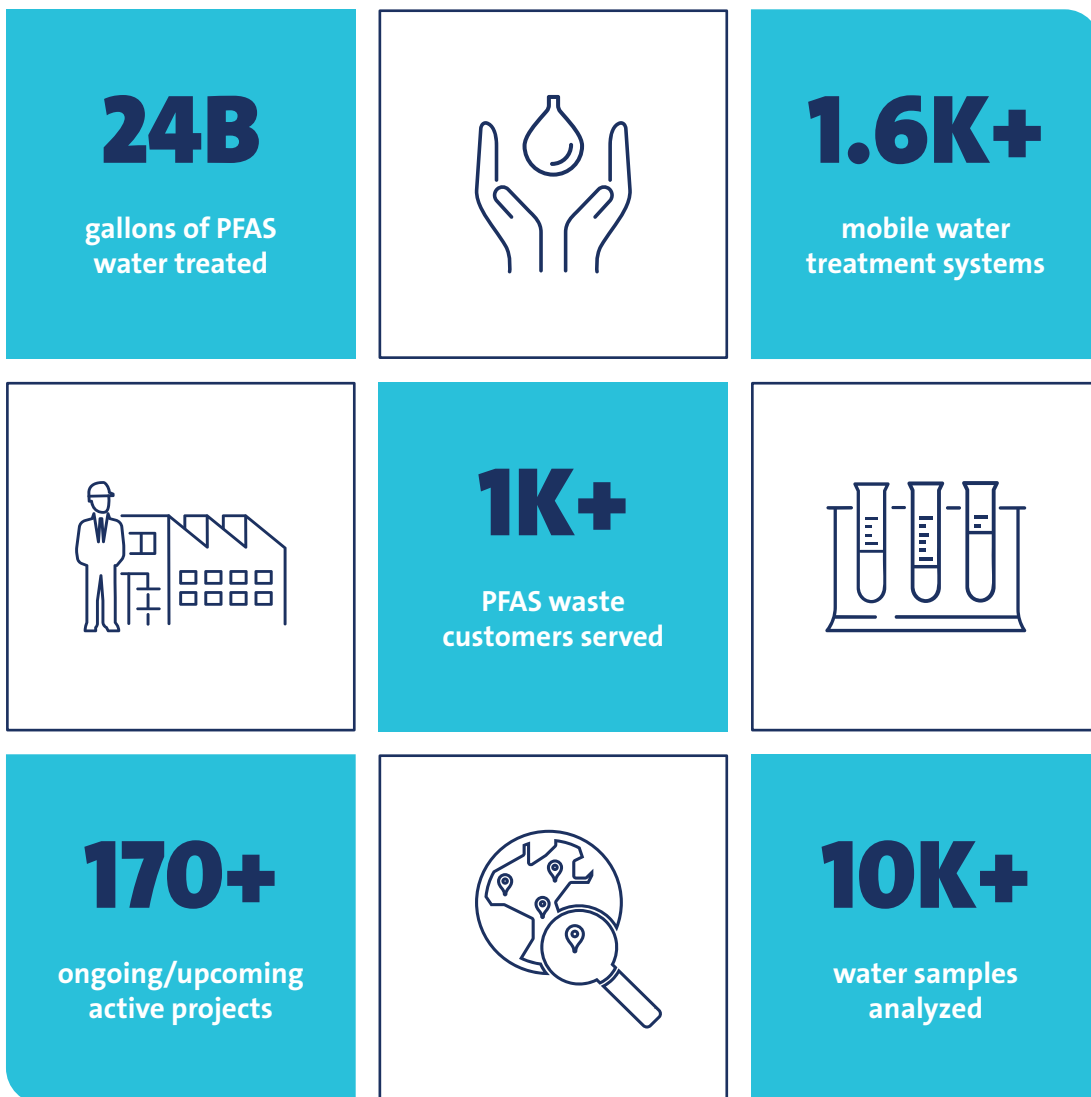
## THE BOTTOM LINE

**For municipalities and industries, addressing regulated PFAS is crucial for compliance, mitigating risks and restoring public trust in water sources.**

# Your global partner for PFAS treatment and management

As a world-class provider of technology, projects, products and services and a leader in environmental services, we're working toward a future where concerns about PFAS management are a thing of the past.

We have decades of experience implementing and operating technologies that are scientifically proven and tailored to each project. We will provide solutions to maximize your efficiency in water and waste management, while complying with emerging PFAS regulations and treatment requirements.





# BeyondPFAS: Peace of mind for your operations, reputation and communities




BeyondPFAS, our suite of end-to-end PFAS management solutions, is designed to support you at every step, from sampling and analysis to responsible disposal of contaminants.

Our holistic approach involves initial site assessment and sampling, followed by implementing tailored treatment technologies based on your needs. We are committed to safely handling and disposing contaminants in line with EPA-recommended methods, including incineration, deep well injection and approved landfill.

## 4 STEP PROCESS



## BENEFITS

<p><b>Largest Technology Portfolio</b></p> 	<p><b>Flexible Project Delivery Models</b></p> 	<p><b>Innovative Financing</b></p> 	<p><b>Customized Waste Management</b></p> 	<p><b>Comprehensive Industrial and Municipal Experience</b></p> 
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# Global leader in PFAS treatment

Veolia is a global leader in PFAS treatment, with capabilities spanning conventional to cutting-edge technologies, from pre-treatment to polishing.

We continuously pilot new, innovative solutions such as foam fractionation and novel adsorbents to ensure your operations comply with emerging PFAS regulations and treatment requirements.



## SCIENTIFICALLY TESTED AND PROVEN TECHNOLOGIES

Granular  
activated  
carbon (GAC)

High rejection  
reverse  
osmosis (RO)

High flow  
rate water  
filtration and  
clarification

Specialized  
anion  
exchange  
resins

Biosolids  
dryers and  
thermal  
oxidation



## INNOVATIVE SOLUTIONS

Actiflo® Carb  
- high-rate  
clarification  
plus powder  
activated carbon  
(PAC)

LEAPfas™ granular  
activated carbon  
and ion exchange  
lead-lag vessels

PROflex and  
SIRION™  
reverse  
osmosis  
platforms

BioCon™ energy  
recovery system  
(ERS) - biosolids  
treatment and  
combustion  
system

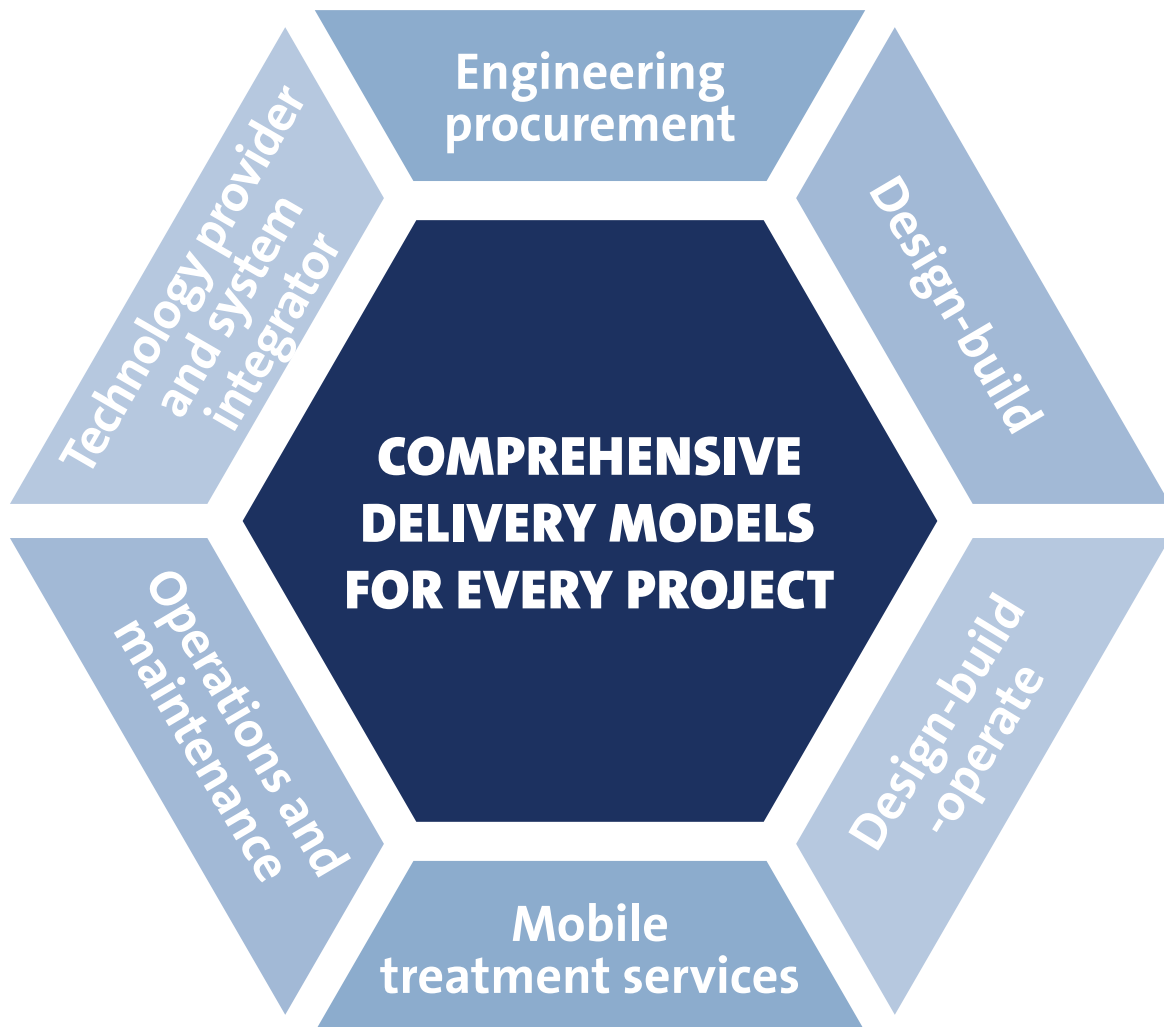
High  
temperature  
fluid bed  
(HTFB) thermal  
oxidation



# Flexible solutions to mitigate risks

Our end-to-end solutions mean you can feel in control. It also means we can provide a tailored approach to help you streamline implementation, optimize costs, minimize risks and secure long-term operational efficiency.

Our adaptable business models allow for a smooth transition from quick-response mobile to long-term permanent water treatment equipment, meeting your changing needs. Continuity of treatment ensures you maintain regulatory compliance in water, wastewater and waste management.





# Innovative financing to accelerate PFAS solutions

We help our clients navigate the EPA's strategic guidelines and support the access of more than \$10 billion in dedicated government funding.

We leverage external funding opportunities, explore investment opportunities and develop tailored financing models to minimize upfront capital requirements and align with municipalities' budgets. We've been proactively addressing the issue since 2018, providing municipalities access to valuable insights and support.



**DID YOU KNOW? THERE'S \$10B+ IN U.S. GOVERNMENT FUNDS AVAILABLE TO TACKLE PFAS PROJECTS**

## THE BOTTOM LINE

**A Veolia partnership means you can leverage our end-to-end capabilities to secure necessary funding and investment and enjoy peace of mind that you are addressing PFAS contamination effectively and sustainably.**

# Compliant, comprehensive PFAS waste handling and disposal

Veolia draws upon extensive expertise in water treatment to safely manage PFAS-containing waste for our clients. As regulations evolve, we're at the forefront, offering innovative disposal solutions to meet compliance requirements and safeguard your environmental interests.

Our solutions are designed to meet your needs — we offer secure landfilling and deep well injection, and our state-of-the-art incineration facility in Port Arthur, Texas is permitted to treat RCRA hazardous, TSCA PCBs and dioxin waste and is approved to receive CERCLA waste. All Veolia solutions are scientifically proven and fully EPA-compliant.

**DID YOU KNOW?**  
**VEOLIA'S  
PORT ARTHUR  
INCINERATOR  
DESTROYS  
>99.9999%  
OF PFAS**



## AFFF INCINERATION SOLUTIONS

### THE CHALLENGE

AFFF, a fire-fighting foam that contains PFAS compounds, is stored on-site at refineries for fire mitigation purposes. Our customer needed to remove, treat and replace the PFAS-containing AFFF.

### OUR SOLUTION

Our Port Arthur, TX high-temperature incinerator. The incineration process has a destruction and removal efficiency of 99.9999%

### WHAT SETS US APART

#### Experience

We've managed 143,550 gallons of PFAS-containing AFFF via high-temperature incineration.

#### Expertise

The Port Arthur incinerator is permitted to treat RCRA hazardous waste and PCB waste, and it is the only facility in the U.S. permitted to treat dioxin waste.



# Building safer, cleaner cities with BeyondPFAS

As an owner and operator of 200 municipal water and wastewater facilities nationwide, Veolia has successfully implemented solutions at more than 30 sites to remove regulated PFAS chemicals.

By 2029, we aim to have over 100 PFAS treatment systems for municipal water operational across the U.S., providing access to clean water for over 2 million more Americans affected by PFAS contamination.

**DID YOU KNOW?** **BY 2029, VEOLIA WILL HAVE TREATED 26+ BILLION GALLONS OF PFAS-CONTAMINATED DRINKING WATER ACROSS THE U.S.**



## ADDRESSING PFAS IN DRINKING WATER IN AFFECTED COMMUNITIES IN THE STATE OF NEW JERSEY

### THE CHALLENGE

Veolia began its partnership with the Borough of Bellmawr in 2018, sampling and testing for PFOA, PFOS and PFNA; in 2020, sample results indicated high levels of PFOS (max 32 ppt) and PFOA (max 23 ppt) were present, meaning treatment was required.

### OUR SOLUTION

We installed ion exchange resin due to site-specific space constraints, then maintained compliance during the design and construction of permanent treatment facilities.

### THE OUTCOME

PFOA and PFOS are now non-detectable and the Borough is prepared to meet the future MCL requirements from the EPA.

# Tailored PFAS solutions for every industry

Veolia innovates to solve tough industrial challenges. With decades of experience helping companies across a wide range of industries, our proven track record includes 20+ successful industrial water PFAS projects, with an additional 50+ projects currently in progress.

We meet the unique challenges of your market, delivering efficiencies, cost savings and sustainable practices. Whether achieving the highest purity standards for a microchip manufacturer or treating wastewater from a food processing plant, we develop targeted, compliant strategies tailored to your operations.

**Scientifically proven PFAS solutions for these and other markets:**

- **Automotive**
- **Chemical processing**
- **Food and beverage**
- **Microelectronics**
- **Military operations**
- **Oil refineries**
- **Pharmaceutical**
- **Power generation**
- **Pulp and paper**



## INDUSTRIAL PFAS WASTEWATER TREATMENT

### THE CHALLENGE

Regulations around PFAS are changing rapidly, and increased requirements for wastewater discharge resulted in operational challenges for our client.

We installed mobile treatment equipment and conducted on-site and lab testing for a full-scale solution.

### OUR SOLUTION

Using activated carbon, RO membranes and thermal technology, we designed the following treatment process:

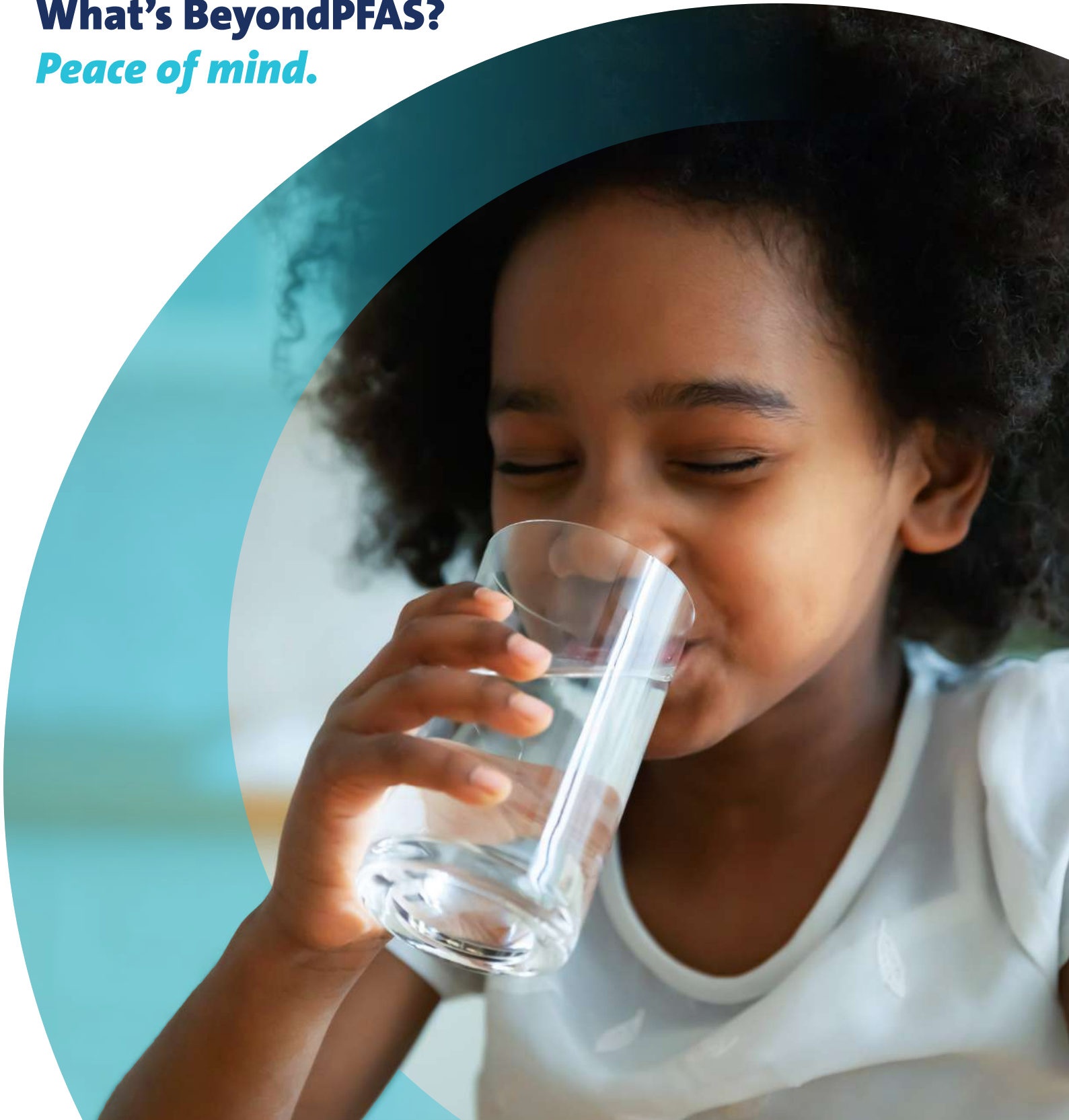
Solids Removal → Hardness Removal → RO Concentration → Evaporation → Final PFAS treatment and discharge and reuse of treated water

### THE OUTCOME

99%+ PFAS reduction, with an inlet wastewater treatment capacity of 220 gallons per minute.

**At Veolia, we empower cities and businesses to create positive ecological transformation. We are committed to protecting our communities, safeguarding the natural environment and helping our customers feel confident that what lies beyond today is a safer, cleaner future.**

## **What's Beyond PFAS?** *Peace of mind.*



Resourcing the world  **VEOLIA**

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