

INVICTA



# INVICTA — WATER



Destroying —  
**PFAS Forever**

March 2025



# Invicta Water

Invicta Water revolutionizes water purification through advanced materials science, ensuring clean and safe water for all. Our mission is to eradicate harmful chemicals from all water sources by harnessing the power of materials science. We believe every person deserves access to clean water, and we are committed to making this a reality.



- Founded in Burlington, NC (2023)
- Deep North Carolina Roots

# The PFAS Problem



## ✗ Widespread & Persistent

Harmful contaminants found in the water, soil, and air

- Pose significant health risks
- Linked to cancer, liver damage, immune suppression, infertility, and developmental delays
- 98% of Americans have PFAS in bloodstream

## ✗ Destruction Challenges

- Difficult to break down and destroy
- Bioaccumulates in humans and animals
- Persist in the environment

## ✗ Increasing Regulatory Burden

- Municipalities face increasing regulation of drinking and wastewater
- EPA has imposed strict limits:
  - 4 PPT PFOA & PFOS
  - 10 PPT (PFHxS, PFNA, HFPO-DA)

## Removal Limitations



- Current and legacy methods have had mixed success and are costly
- Existing methods trap PFAS and generate hazardous waste, creating costly, unsustainable disposal challenges

## Massive Remediation Costs



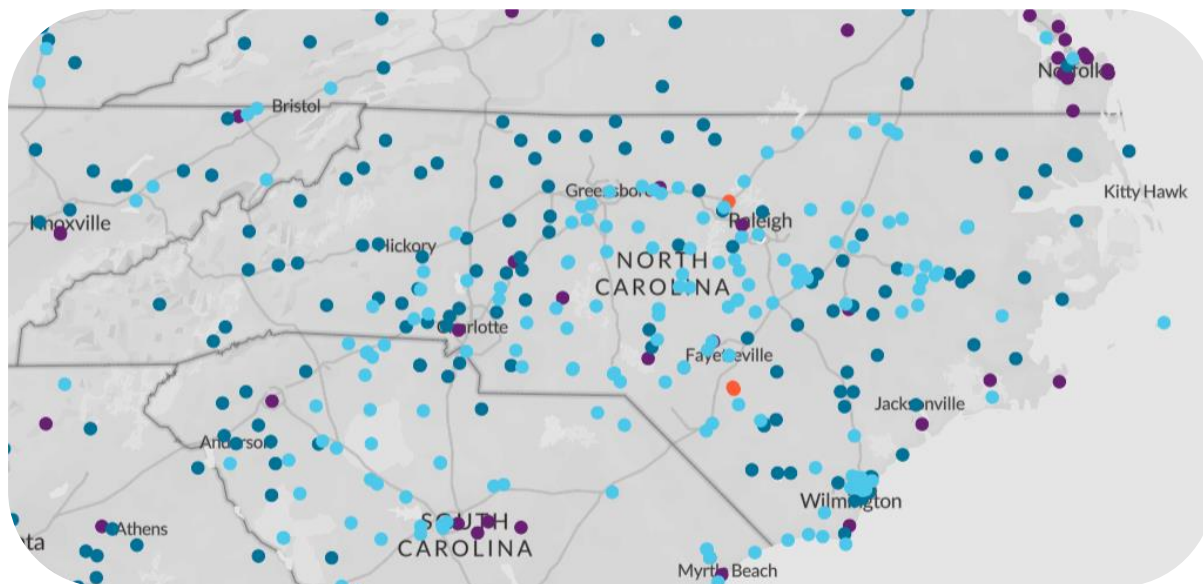
- The U.S. is expected to spend \$1 trillion on PFAS cleanup over the next decade



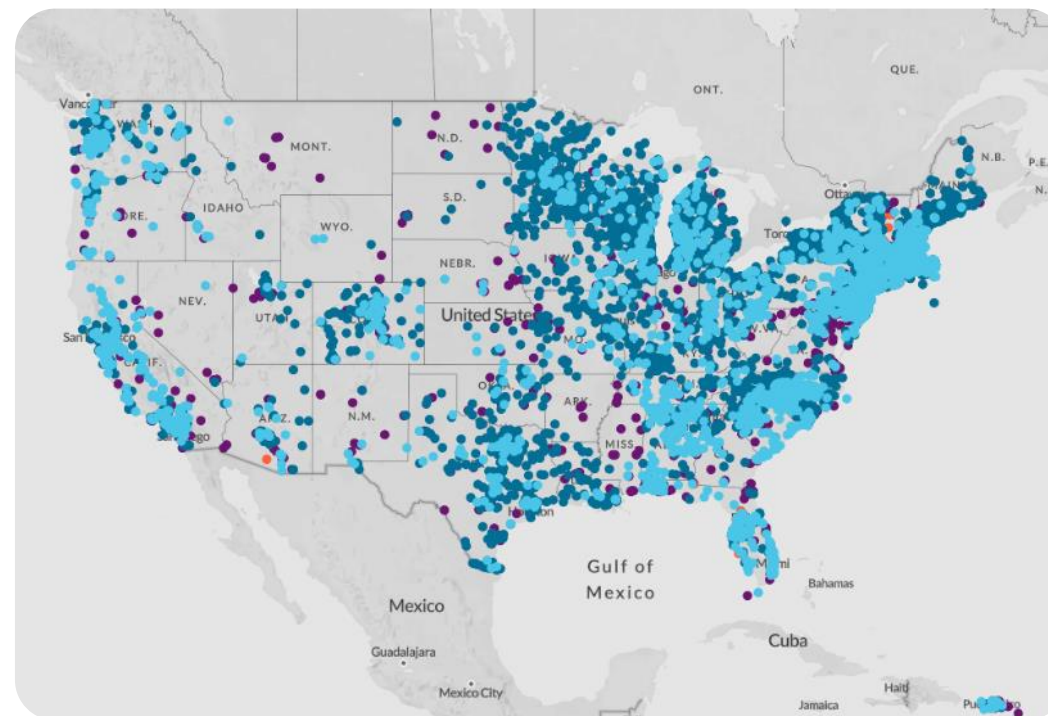
# PFAS are Everywhere

- PFAS tap water contamination in > 7,457 locations
- 83% of sampled waterways
- Elevated PFAS affects 200M people in the US

## NC Map of PFAS Contamination

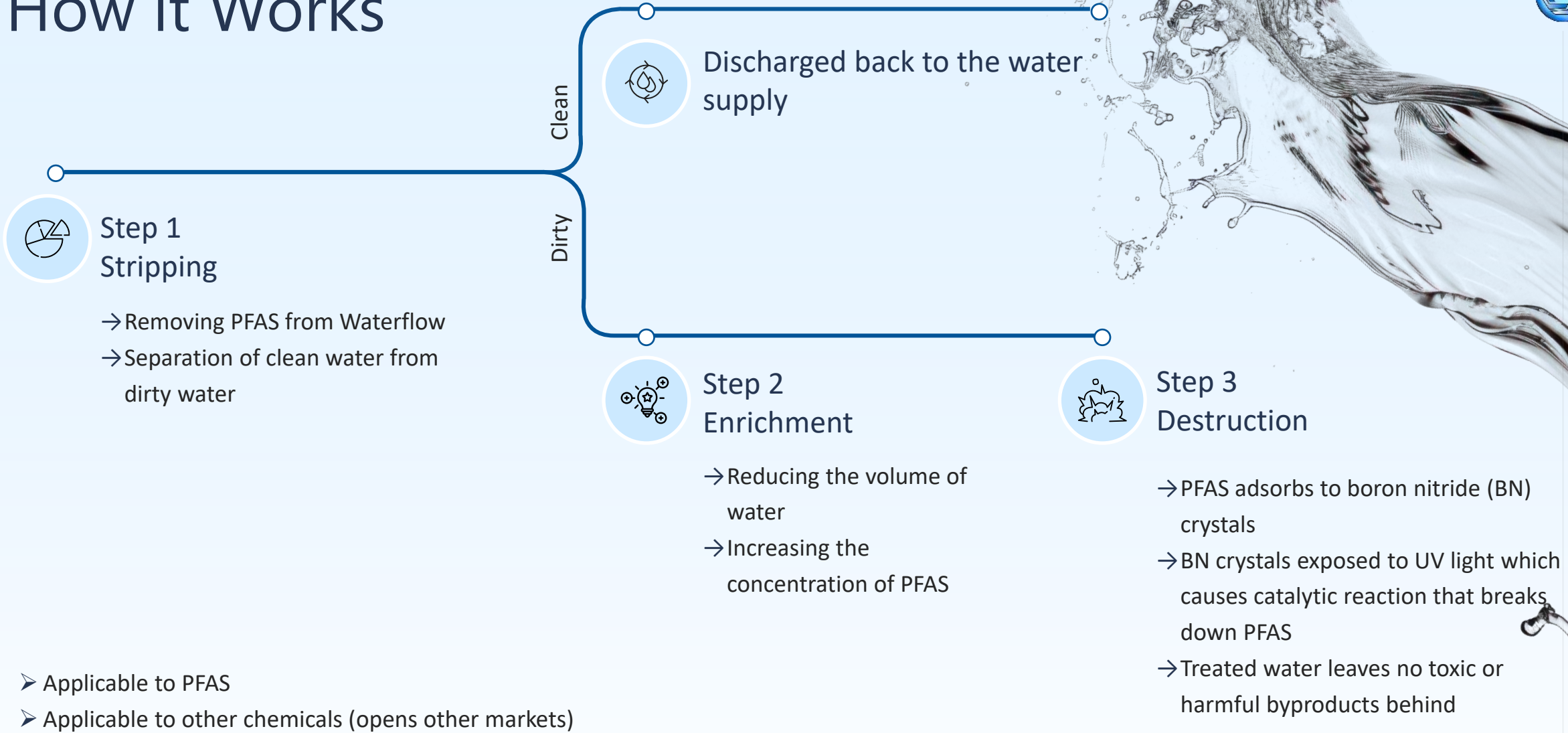


## US Map of PFAS Contamination



- Drinking Water Above Proposed Limit
- Drinking Water Below Proposed Limit
- Other Known Sites
- Military Sites

# How it Works



- Applicable to PFAS
- Applicable to other chemicals (opens other markets)



# Pilot Success

## Results from recent pilots of Invicta's water treatment system

- Complete Removal in Drinking Water Sources

Pittsboro & Burlington, NC

**100% Reduction**

(PFOA, PFOS, PFHxS)

- Complete Removal in Reverse Osmosis Waste

Raleigh, NC

**100% Reduction**

(PFOA, PFOS, PFHxS, PFNA)

- Significant Reduction in Industrial Wastewater

South Carolina Industrial Process

**98.7%** reduction

(PFOA)

**100%** reduction

(PFOS, PFHxS, PFNA)

- Significant Reduction in Industrial Wastewater


Wake Forest, NC

**99.7%** reduction (PFOA)

**100%**

(PFOS, PFHxS)

Significant reductions in PFAS levels were achieved, with most locations reaching 100% removal, and all post-treatment values falling well below EPA limits, ensuring full regulatory compliance





# Current Projects

- **Pittsboro, NC**  
Town of Pittsboro  
Drinking Water

**COMPLETED**

- **Cary, NC**  
Town of Cary  
Drinking Water

- **Wake Forest, NC**  
Private Property  
Remediation of former Textile Mill

- **Burlington, NC**  
City of Burlington  
Wastewater\* (waiting for final DEQ approval)

- **Spartanburg County, SC**  
Manufacturing  
Industrial Wastewater

- **Southeast, US**  
Multiple Customers  
Reverse Osmosis Waste

- **Laurens County, SC**  
Municipality  
Drinking Water



# Who We Can Help

## Drinking Water

Publicly Owned Treatment Works  
Community Wells

## Wastewater

Publicly Owned Treatment Works  
Private Processors

## Industrial Dischargers

Textiles  
Metal Finishing  
Food and Beverage Production  
Semiconductors  
Chemical Industry

## Department of Defense

Remediation  
Decontamination  
Drinking Water

## Remediation

AFFF  
Brownfield & CRE Site Assessment  
Spills

## Landfills

Public  
Private

## Home Unit (2026)

< 1,000 GPD

## Waste Processing

Reverse Osmosis  
IX

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