



MINERALS  
TECHNOLOGIES

# PFAS Remediation Technology: FLUORO-SORB<sup>®</sup> Adsorbent

September 17<sup>th</sup>, 2025

# Forward Looking Statements and Non-GAAP Measures



This presentation may contain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements provide current expectations and forecasts of future events such as new products, revenues and financial performance, and are not limited to describing historical or current facts. They can be identified by the use of words such as "believes," "expects," "plans," "intends," "anticipates," and other words and phrases of similar meaning. Forward-looking statements are necessarily based on assumptions, estimates and limited information available at the time they are made. A broad variety of risks and uncertainties, both known and unknown, as well as the inaccuracy of assumptions and estimates, can affect the realization of the expectations or forecasts in these statements. Actual future results may vary materially. Significant factors that could affect the expectations and forecasts include worldwide general economic, business, and industry conditions; the cyclical nature of our customers' businesses and their changing regional demands; our ability to compete in very competitive industries; consolidation in customer industries, principally paper, foundry and steel; our ability to renew or extend long term sales contracts for our satellite operations; our ability to generate cash to service our debt; our ability to comply with the covenants in the agreements governing our debt; our ability to effectively achieve and implement our growth initiatives or consummate the transactions described in the statements; our ability to successfully develop new products; our ability to defend our intellectual property; the increased risks of doing business abroad; the availability of raw materials and access to ore reserves at our mining operations, or increases in costs of raw materials, energy, or shipping; compliance with or changes to regulation in the areas of environmental, health and safety, and tax; risks and uncertainties related to the voluntary petitions for relief under Chapter 11 of the U.S. Bankruptcy Code filed by our subsidiaries BMI OldCo Inc. (f/k/a Barretts Minerals Inc.) and Barretts Ventures Texas LLC; claims for legal, environmental and tax matters or product stewardship issues; operating risks and capacity limitations affecting our production facilities; seasonality of some of our businesses; cybersecurity and other threats relating to our information technology systems; and other risk factors and cautionary statements in our 2023 Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and other reports filed with the Securities and Exchange Commission. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events, or otherwise.

# A Well-Balanced Portfolio Positioned for Growth

## CONSUMER & SPECIALTIES

\$2.1B  
Net Sales

~4,000  
Employees

34  
Countries

12  
R&D Centers

Sales\* \$1.1B

\$1.0B Sales\*

## ENGINEERED SOLUTIONS

Functional components in a variety of consumer and industrial goods

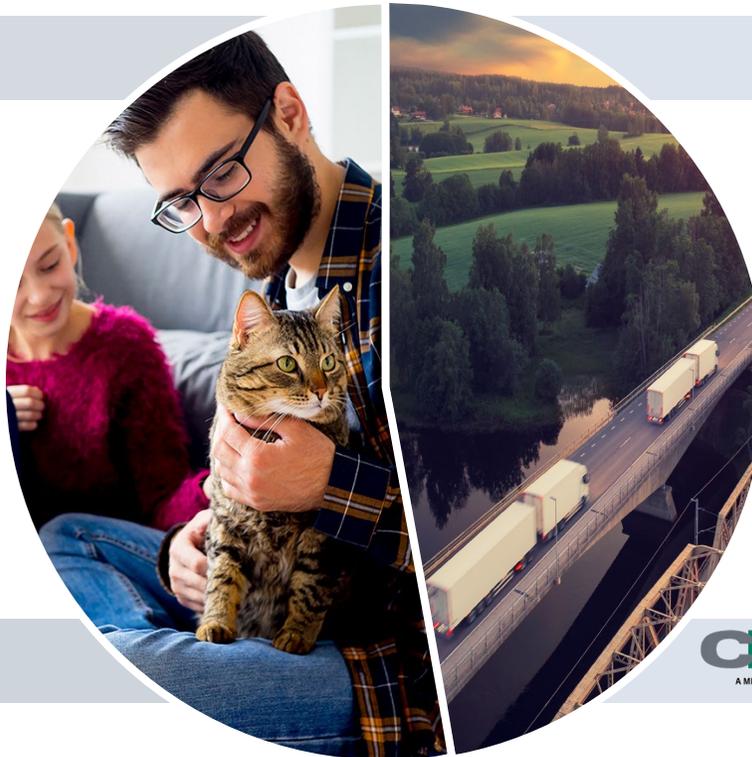
Designed to improve our customers' manufacturing processes and projects



### Household & Personal Care

Mineral-to-market products serving consumer-oriented end markets, including cat litter, household and personal care, natural oil purification, animal health and agriculture

Mineral additives serving food & pharma, paper and consumer packaging, residential construction markets



### Specialty Additives

### High-Temperature Technologies

Value-added solutions and technologies for high-temperature industries, such as steel, foundry and others

Project based products and solutions for environmental, **remediation, water treatment**, building materials and infrastructure



### Environmental & Infrastructure

*Essential Part of Everyday Life*



## Market Dynamics

- Global issue impacting all regions of the world
- Global regulatory community has begun to promulgate regulations
- Public interest and litigation continue to drive awareness
- Total economic impact is still evolving
- Market has limited cost-effective treatment options

## MTI Value Proposition

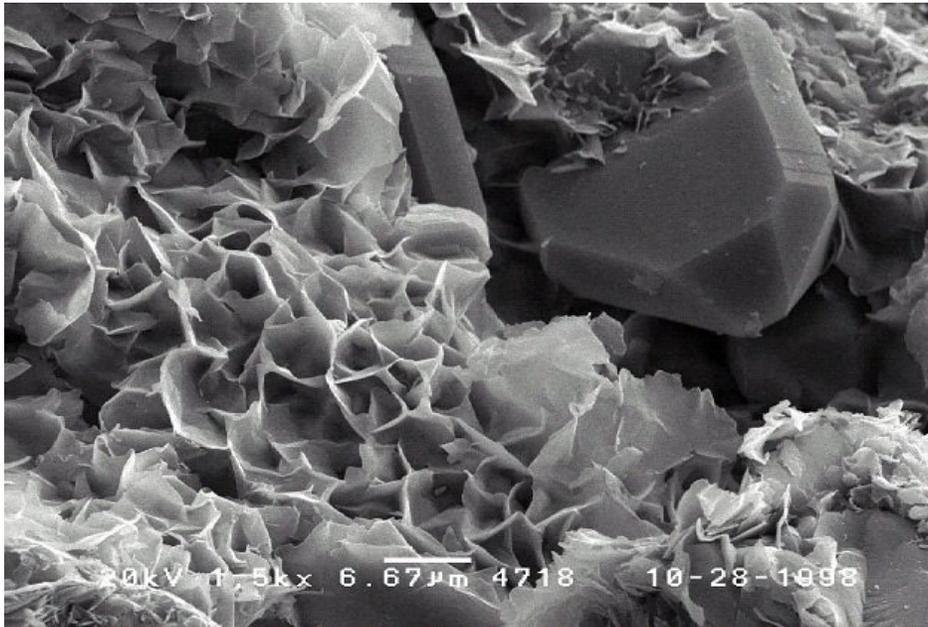
- Vertically integrated mineral reserves coupled with proprietary technology and know-how
- Established manufacturing readiness and capacity
- Versatility in technology use allows broad market participation
- Can be used alone or with other technologies
- Best-in-class efficacy and total lifecycle costs
- Proven technology in full-scale, real-world commercial applications

## Recent Developments

EPA National Drinking Water Regulation for 2 PFAS Compounds to Stay in Place With Compliance by 2031

CERCLA Designation Could Drive Environmental Cleanup of Contaminated Sites

EPA Collaboration with MTI  
*- Tackling Emerging Contaminants  
Technical Assistance Program*

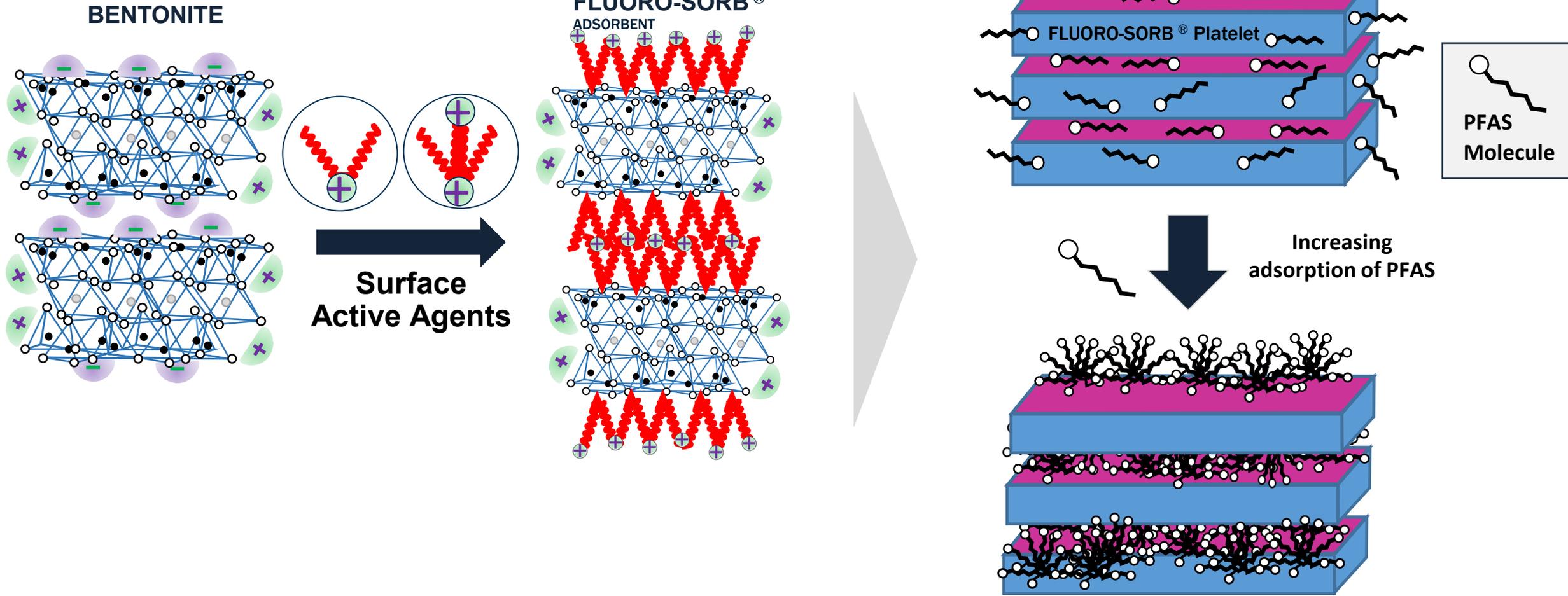


## Unique bentonite properties:

- Contains montmorillonite platelets
- Each platelet is 1 nanometer thick and thousands of nanometers long and wide
- Platelets have very high surface area (800 m<sup>2</sup>/gram)
- Platelet surface is negatively charged – edges are positively charged



# PFAS Adsorption Mechanism

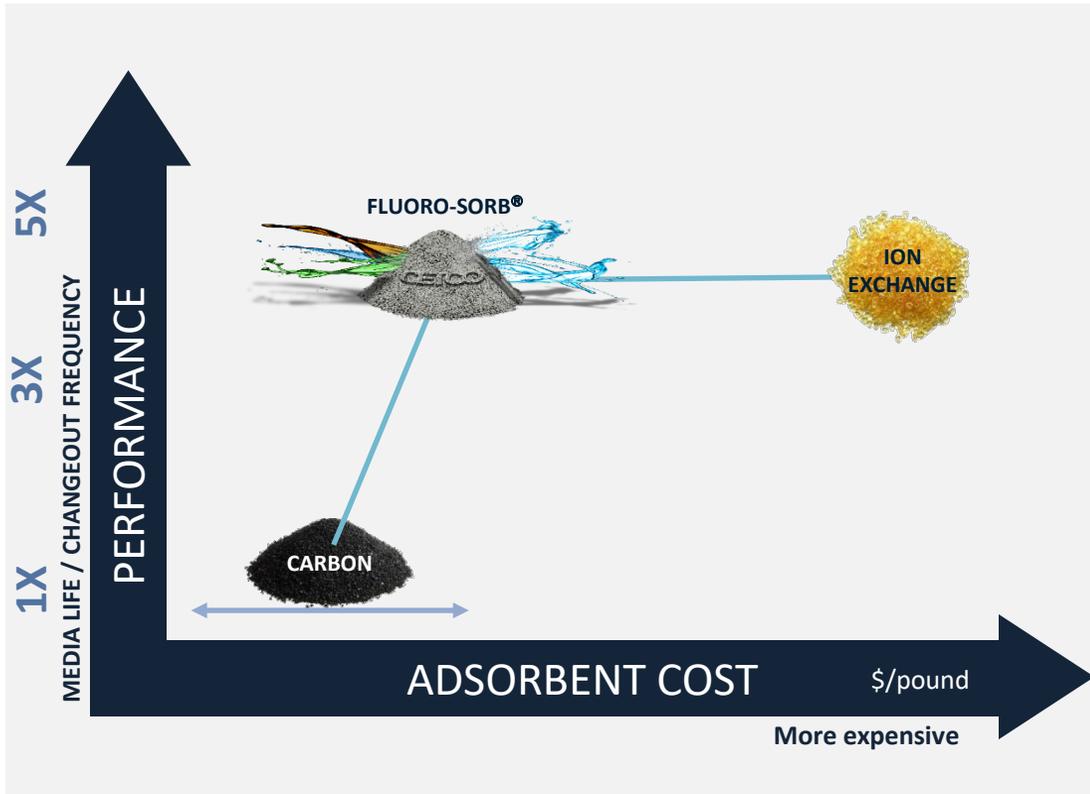


MTI US Patent 11,000,822

# FLUORO-SORB® Adsorbent Value Proposition



## Operating Efficiency and Capacity



## Kinetics and Footprint

Media	Carbon	Ion Exchange	FLUORO-SORB®
Contact time with media bed*	10 minutes	2 minutes	2 minutes

+



\*Amount of time that the water is in contact with the media bed

**FLUORO-SORB® Adsorbent = Higher Performance + Lower Capital Cost + Lower Operating Cost**



# Particle Surface Modification



Unique capability to design properties for versatile applications

**FLUORO-SORB® P**  
ADSORBENT



SUBSURFACE INJECTION  
WATER PRE-TREATMENT

**FLUORO-SORB® 100**  
ADSORBENT



SUBSURFACE INJECTION  
SOIL REMEDIATION (MIXING)

**FLUORO-SORB® 200**  
ADSORBENT



DRINKING WATER FILTRATION  
GROUNDWATER FILTRATION

**FLUORO-SORB® 400**  
ADSORBENT



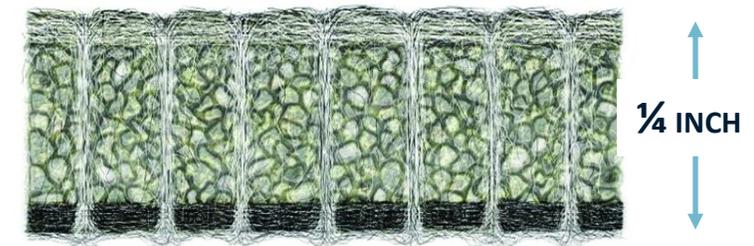
SEDIMENT CAPPING  
WASTEWATER FILTRATION

**FLUORO-SORB® 600**  
ADSORBENT



SURFACE WATER GRAVITY FILTRATION

**FLUORO-SORB®**  
REACTIVE CORE MAT®



SEDIMENT CAPPING  
PASSIVE STORMWATER FILTRATION

# FLUORO-SORB® Adsorbent

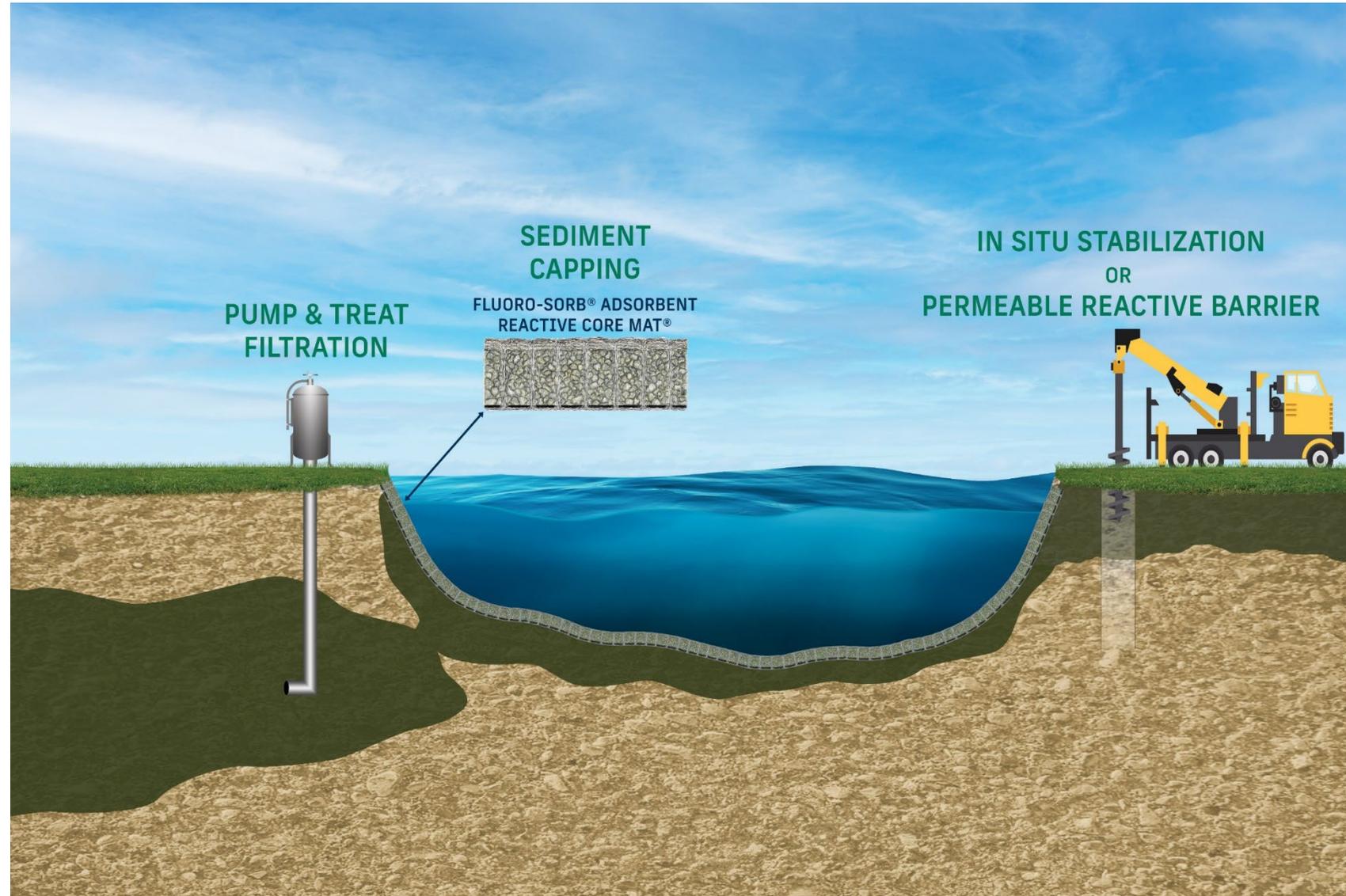
## Versatility of Deployment



Technology designed to selectively adsorb PFAS from water and sediments

FLUORO-SORB® Adsorbent interacts with PFAS, thus spread of contamination is controlled

Engineered manufacturing capabilities allow product variations resulting in enhanced versatility





**FLUORO-SORB® Adsorbent**

# **CASE HISTORIES**



# FLUORO-SORB® Adsorbent – Drinking Water Successes



## Examples of Full-Scale Drinking Water Systems Using FLUORO-SORB®

Region	Treatment Plants
Northeast	7 Systems
Mid Atlantic	4 Systems
Midwest	1 System
Mountain West	1 System
Pacific Coast	2 Systems
Southeast	2 Systems

- Oldest System: 3 Years Ago
- Latest Installation: 3 Months Ago
- System Type: Groundwater and Surface Water



0.3 MGD\* System



0.9 MGD\* System



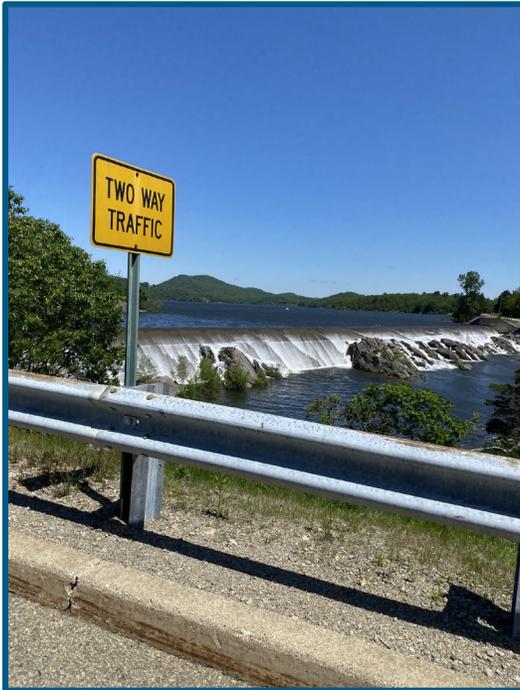
1 MGD\* System



130 MGD\* System



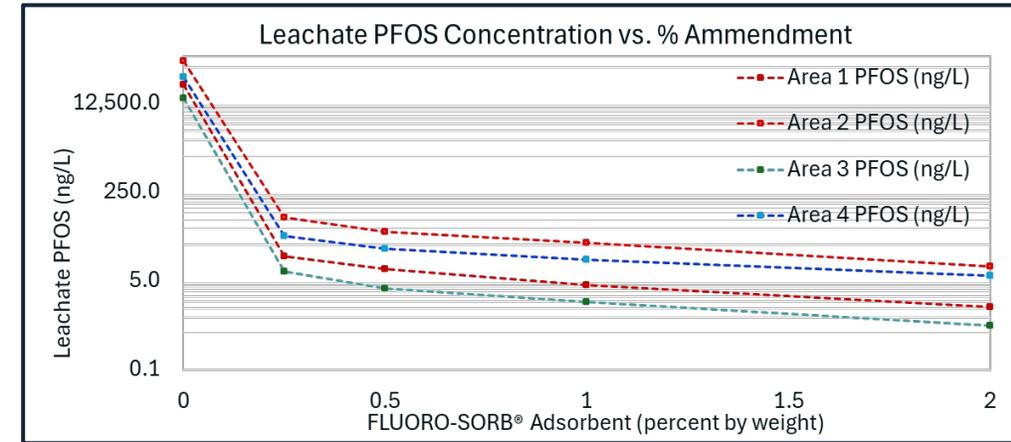
# SURFACE WATER PLANT (NEW JERSEY)



- A ~130 MGD surface water treatment plant installed **FLUORO-SORB® Adsorbent** for removal of PFAS
- Small-scale piloting showed the life span of **FLUORO-SORB® Adsorbent** could be a strong economic choice
- 178 tons of **FLUORO-SORB® Adsorbent** were installed into one of their gravity contactors to remove PFAS
- The system has been running since May 2025



# SELFRIDGE AIR FORCE BASE (MICHIGAN)



- High PFOS soil contamination from prior use of aqueous film forming foam (AFFF)
- **FLUORO-SORB® Adsorbent** was deployed over 8-acres to prevent leaching into groundwater
- Dosage of 0.5 – 1% **FLUORO-SORB® Adsorbent** mixed with soil
- PFOS leaching reduced by 95 – 100%



# WRIGHT PATTERSON AIR FORCE BASE (OHIO)



Groundwater Capture Trench



Filtration Basin  
with FLUORO-SORB® Adsorbent

- The base has selected **FLUORO-SORB® Adsorbent** at two of the sites deemed most contaminated
- **FLUORO-SORB® Adsorbent** reduces their batch treatment time from 3-4 hours to 15 minutes
- >30 million gallons have been treated at one site and the second system started in May treating >1 million gallons
- The treatment systems ensure both groundwater and surface water are below the MCL's set by the U.S. EPA



# ELLSWORTH AIR FORCE BASE (SOUTH DAKOTA)

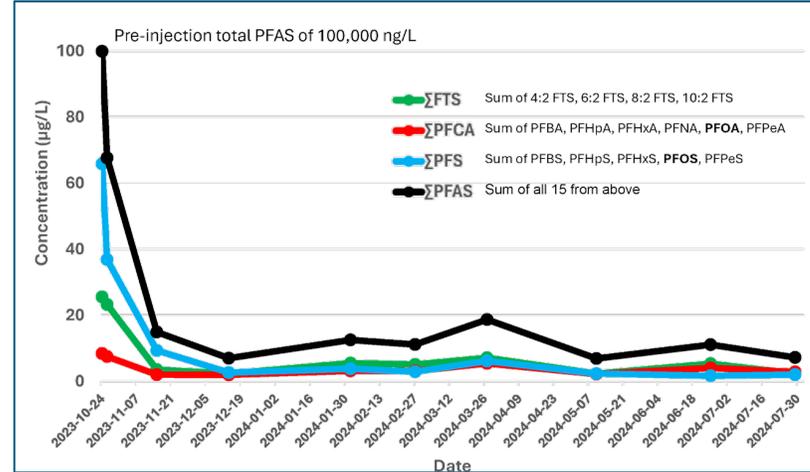


- High PFAS concentrations observed in surface water due to groundwater upwelling
- A **REACTIVE CORE MAT**<sup>®</sup> containing **FLUORO-SORB**<sup>®</sup> Adsorbent (400 x 15 ft) was placed along the stream
- Measurements were made quarterly over 2 years showing significantly reduced downstream concentrations
- **REACTIVE CORE MAT**<sup>®</sup> remains deployed & continues to remove PFAS



Photos by QM Environmental

- 22,100 tons of PFAS-impacted soil was stabilized with **FLUORO-SORB® Adsorbent**
- Post monitoring shows PFAS leaching reduced over 2 orders of magnitude meeting their remedial goals
- Significant unseasonal rainfall during remediation produced a bioswale where a **REACTIVE CORE MAT®** filled with **FLUORO-SORB® Adsorbent** was rapidly deployed



- Subsurface injection of **FLUORO-SORB® Adsorbent** was used at a Canadian DND base in Alberta, Canada
- Significant reduction of PFAS was measured without disrupting groundwater flow

- First injection in the U.S. has now been completed
- Second injection site is scheduled for October (2025)



# CONFIDENTIAL LANDFILL SITE USA



- Treatment of landfill leachate was required at a site with total PFAS exceeding 50,000 ppt
- Piloting >1 year decreased PFAS to goal levels showing **FLUORO-SORB® Adsorbent** as a strong economic choice
- A vessel purification system containing **FLUORO-SORB® Adsorbent** was installed to treat 300,000 gallons per day
- Full-scale installation has been running for 2+ years with media change-out every 4 months



**Versatility of Deployment**

**Global Footprint**

**Demonstrated Cost Effectiveness**

**Outperforms Other Solutions**

**Full-Scale Deployments**

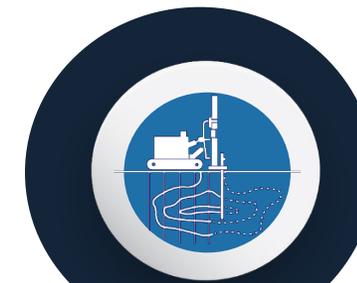
**Patented**

**Mineral Reserves Coupled with  
Proprietary Technology**

## Commercial Verticals



**DRINKING  
WATER**



**REMEDIATION**



**LANDFILL  
LEACHATE**



**WASTEWATER**

**250+ PILOTS & STUDIES ACROSS ALL VERTICALS**

# PFAS Remediation Technology: FLUORO-SORB® Adsorbent



**FLUORO-SORB®**  
ADSORBENT