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MUNICIPAL PFAS RECOVERY UPDATE

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WHAT ARE PFAS?

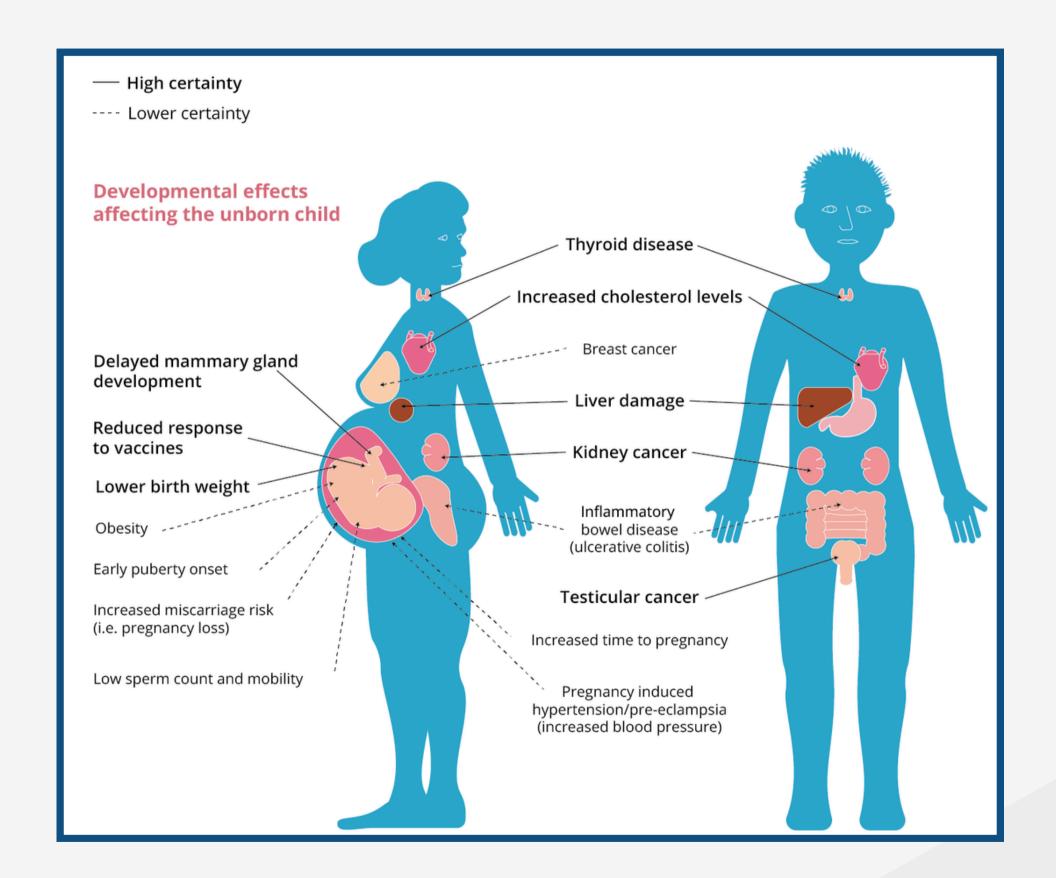
- Per and Polyflourinated Substances
- AKA "Forever Chemicals"
- Found in a wide range of commercial products

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EXAMPLES Perfluorooctanioic Acid PFOA Perfluorooctane Sulfonate PFOS Perfluorohexane Sulfonate PFHxS Perfluorobutane Sulfonate PFBS Perfluorononanoic Acid PFNA PFDA Perfluorodecanoic Acid Pefluorohexanoic Acid PFHxA

HEALTH COMPLICATIONS

- Reproductive effects including;
 - o decreased fertility, and
 - increased high blood pressure in pregnant women
- **Developmental effects** or delays in children, including;
 - o low birth weight,
 - o accelerated puberty,
 - o bone variations,
 - o behavioral changes,
- Increased risk of some cancers, including;
 - o prostate,
 - kidney,
 - o and testicular cancers.



WHERE DO PFAS COME FROM?

Exposure

- Firefighting Foams
- Firefighter turnout gear
- Stain resistant or waterproof clothing
- Fast food packaging
- Makeup and personal care products
- Floor care products
- Cleaning products

More than 200
million Americans
receive water with
PFAS concentrations
of at least 1 ng/l

PFAS Overview

More than 1500 drinking water systems across the U.S. may be contaminated with PFOA and PFOS.

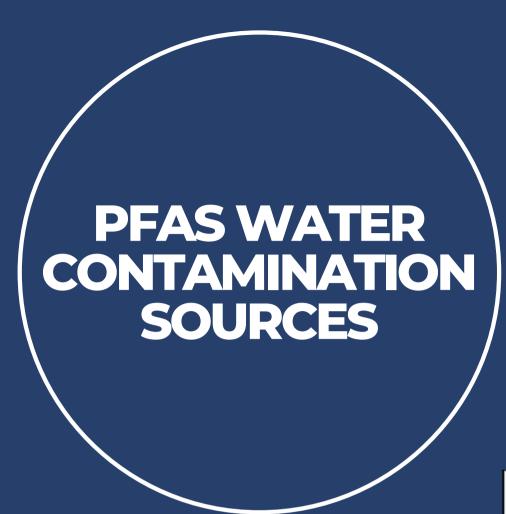
According to a May 2018 Environmental Working Group (EWG) Report

PREVALENCE

- 45% of tap water contains detectable PFAS contaminants (USGS, 2023)
- 97% of Americans have PFAS in their bodies (CDC, 2020)



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- 1. D.O.D. AFFF use
- 2. Manufacturing
- 3. Landfills
- 4. Airport AFFF use
- 5. FTC AFFF use
- 6. Refinery AFFF use

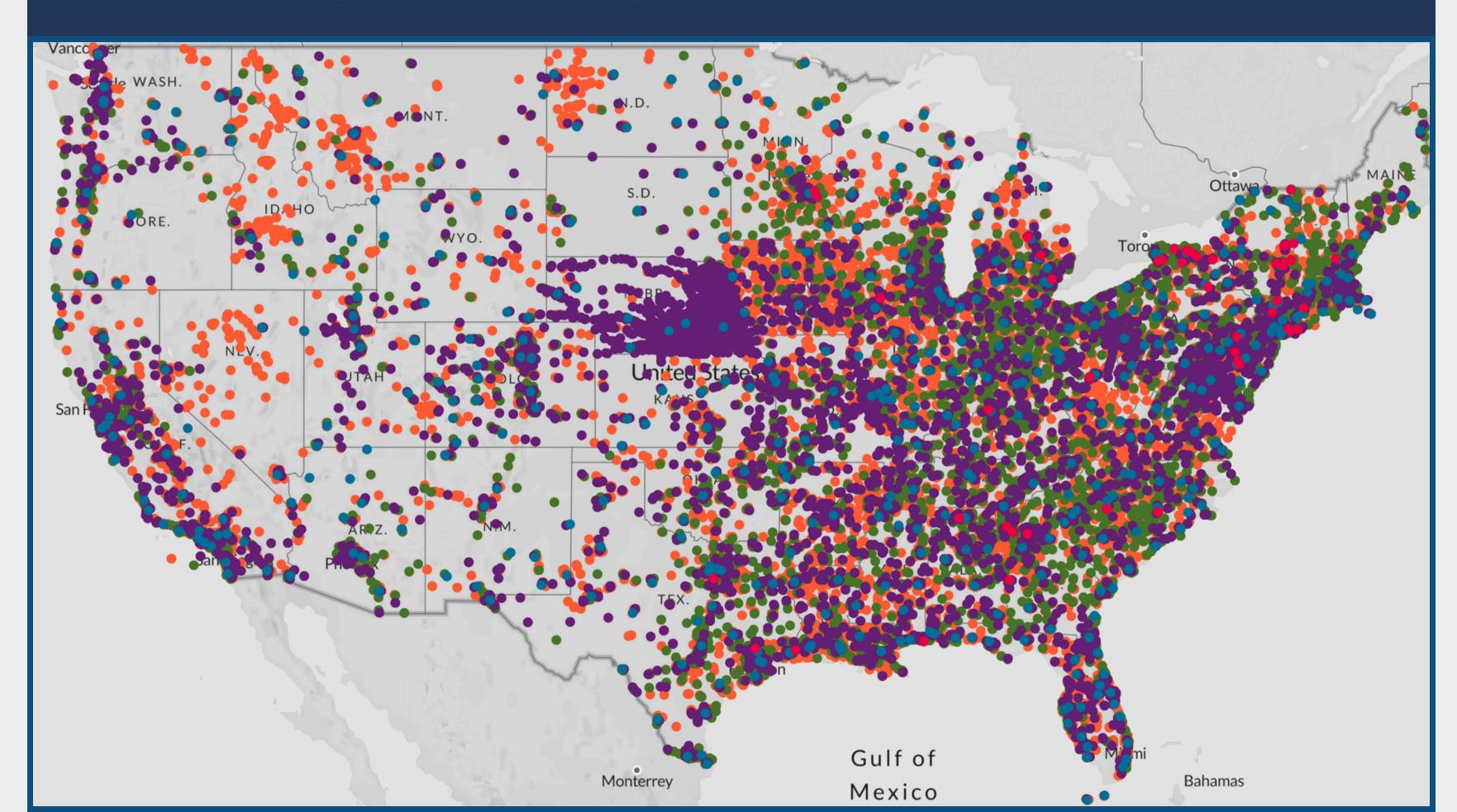


Evaluation and Management Strategies for Per- and Polyfluoroalkyl Substances (PFASs) in Drinking Water Aquifers: Perspectives from Impacted U.S. Northeast Communities

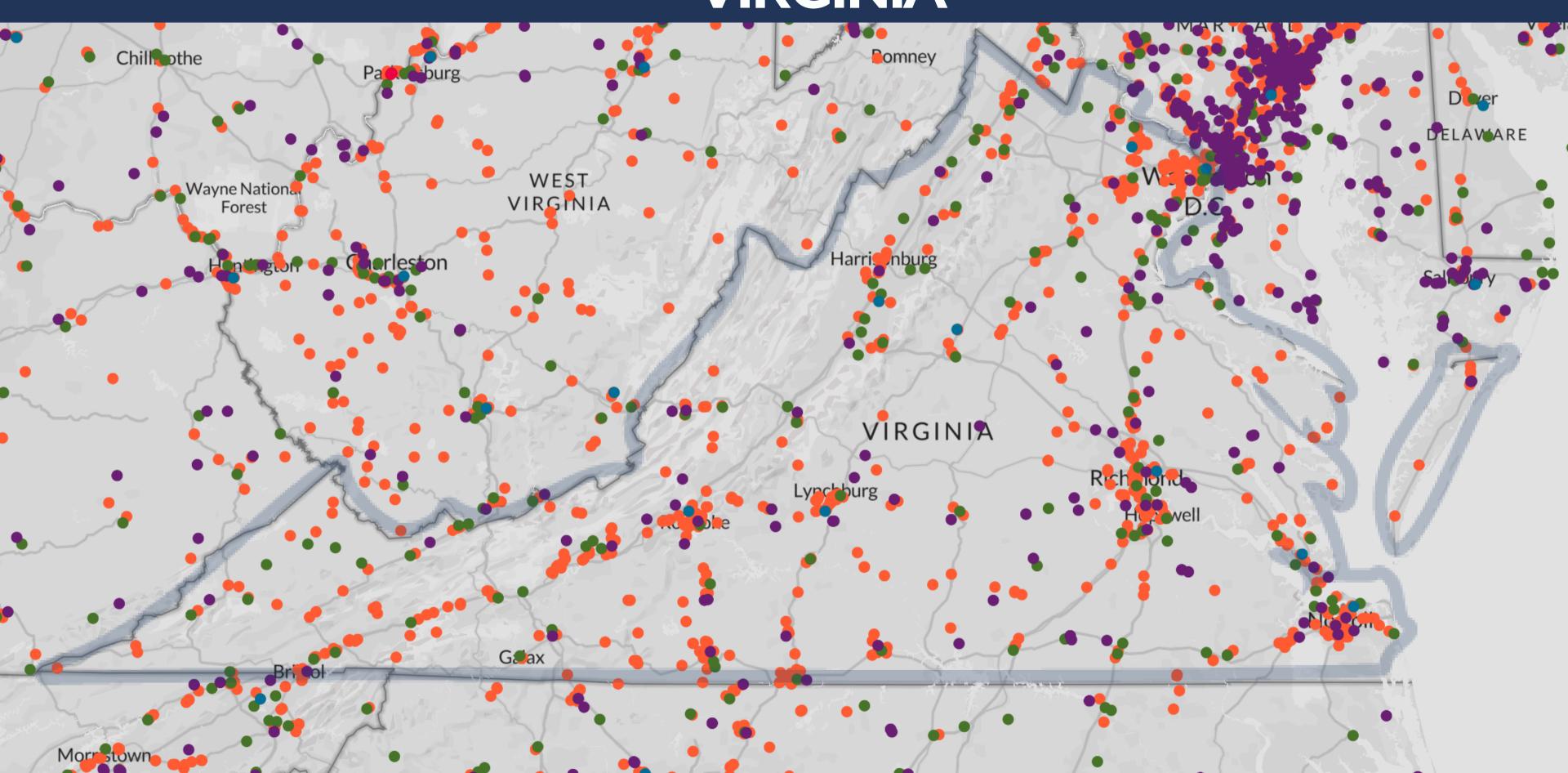
Table 2. Risk scores utilized	for calculation of the PFAS	source hazard index (HI).
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PFAS source	Upper magnitude (µg/L)	No. PFASs	Risk score	Table 1 source type
DoD facilities	10,000	28	100	AFFF use (DoD)
Chemical manufacturing	1,000	13	100	PFAS/FP manufacturing
Landfills	1,000	11	100	Waste streams (landfills)
Airports	100	28	75	AFFF use (Airports) ^a
Fire training areas	100	28	75	AFFF use (fire training areas) ^a
Petroleum refineries	10	28	75	AFFF use (petroleum refineries) ^a
Textiles	10	13	50	FP coating (plastics, textiles, metals)
Furniture	10	13	50	FP coating (plastics, textiles, metals)
Paper	10	13	50	FP coating (plastics, textiles, metals)
Rubber/plastics	10	13	50	FP coating (plastics, textiles, metals)
Fire Stations	N/A	28	25	$N/A^{a,b}$
Fabricated metal	N/A	11	25	N/A ^c

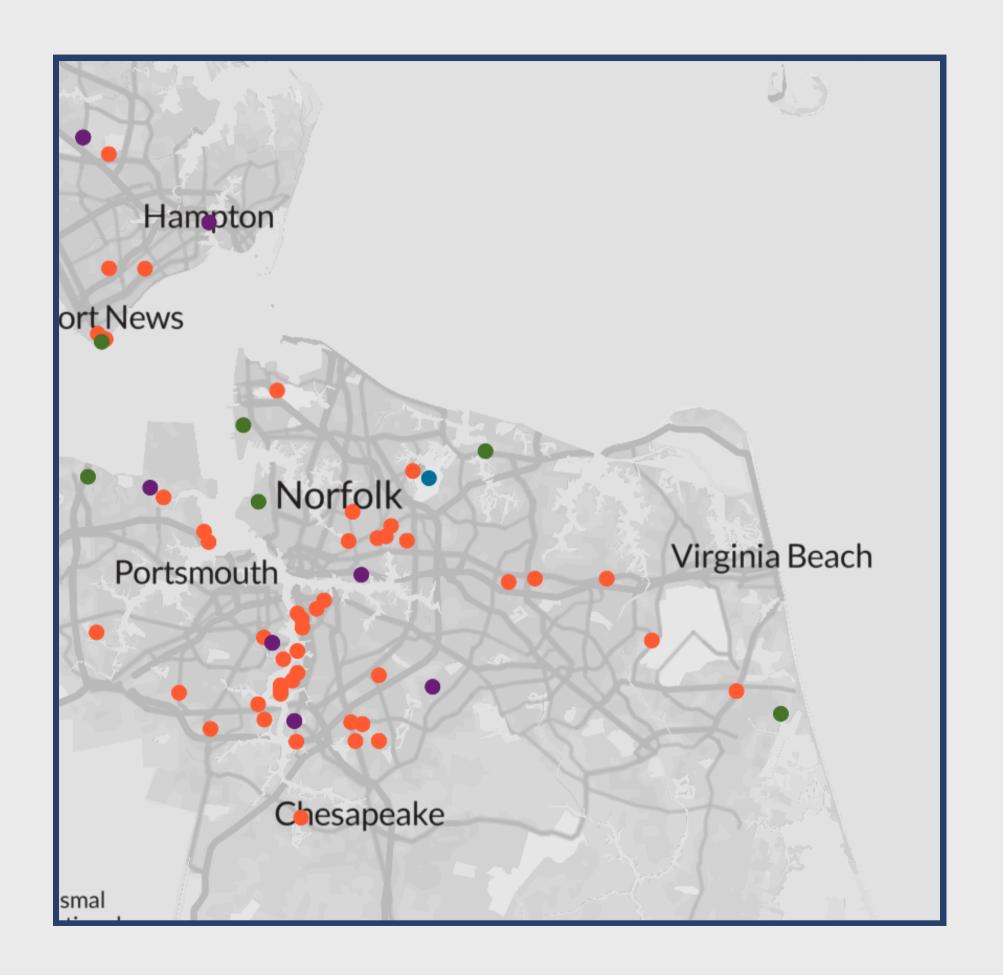
SUSPECTED INDUSTRIAL DISCHARGERS



SUSPECTED INDUSTRIAL DISCHARGERS: VIRGINIA



SUSPECTED INDUSTRIAL DISCHARGERS: VIRGINIA BEACH



PFAS REGULATION IN DRINKING WATER

The federal government has imposed strict standards on PFAS in drinking water.

New Maximum Contaminant Level ("MCL") of 4 ppt for PFOS and PFOA finalized on April 10, 2024.

2024: NEW REGULATIONS FOR PFAS



Maximum Contaminant Levels

Compound	Final MCLG	Final MCL (enforceable levels)
PFOA	Zero	4.0 ppt parts per trillion (ppt) (also expressed as ng/L)
PFOS	Zero	4.0 ppt
PFHxS	10 ppt	10 ppt
PFNA	10 ppt	10 ppt
HFPO-DA (commonly referred to as GenX Chemicals)	10 ppt	10 ppt
Mixtures containing two or more of PFHXS, PFNA, HFPO-DA, and PFBS	1 (unitless) Hazard Index	1 (unitless) Hazard Index

@mytapscore

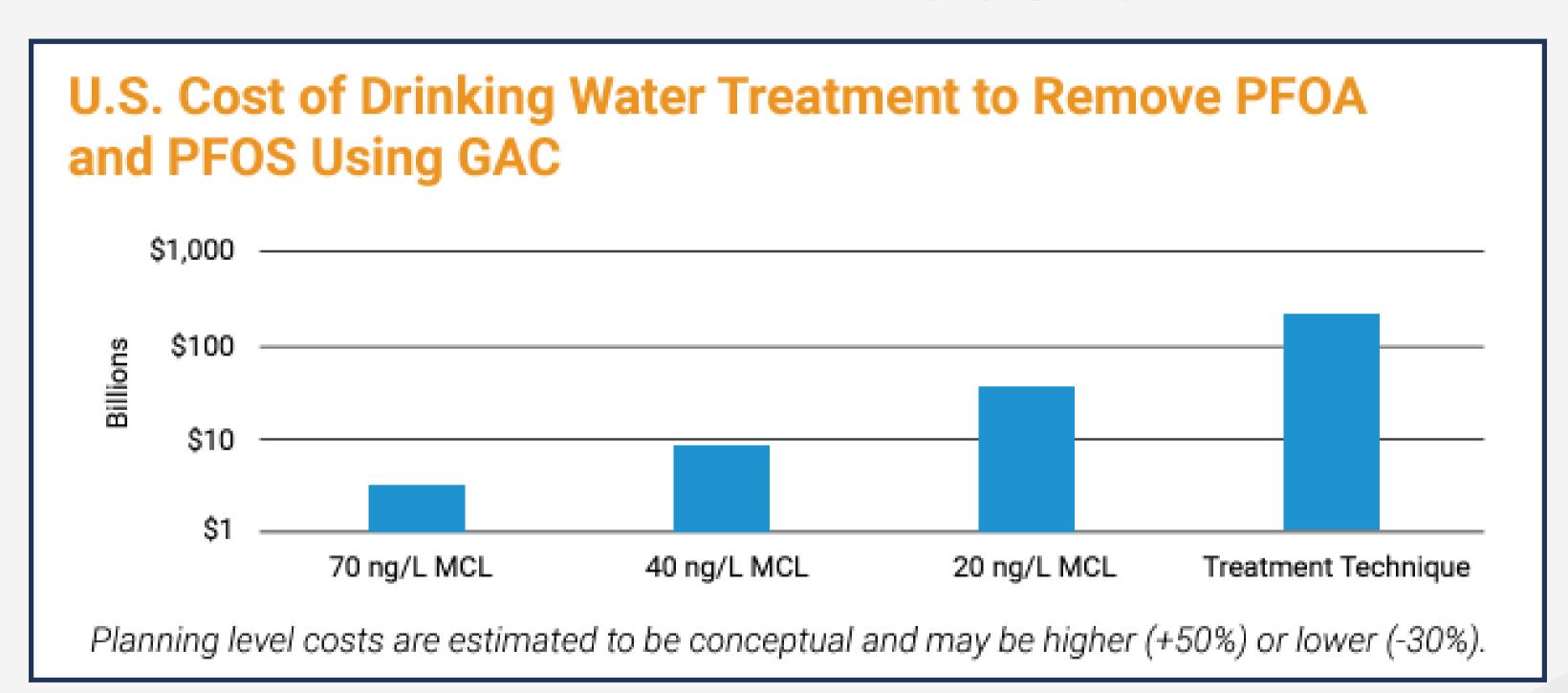
PFAS DRINKING WATER REGULATIONS, CONT'D

- All PWS's have 3 years to complete their initial monitoring for PFAS chemicals
 - Within that time: must inform the public of the level of PFAS measured in their drinking water.
- Where PFAS is found at levels that **exceed these standards**, systems **must implement solutions to reduce PFAS** in their drinking water **within 5 years**.

TREATMENT COSTS

- Treatment is extremely costly given the fact that conventional water treatments cannot remove PFAS
- Requires PWS to spend significant funds to improve treatment facilities
 - Reverse osmosis membranes
 - Granulated Active Carbon Filters
 - Reverse ion exchange
 - © Etc.,
- The cost impact of PFAS is estimated to be > \$100 billion for PWS's nationwide

TREATMENT COSTS



THE PROBLEM

PWS have or will have to pay millions of dollars to treat a PFAS problem that they did not create...

Who should help pay for those costs?

AFFF LITICATION

- Aqueous Film Fighting Foams (AFFF) Products Liability Litigation, MDL No. 2873
- Pending in the U.S. District Court for the District of South Carolina
- Hundreds of lawsuits brought by PWS's across the country against AFFF Manufacturers/Distributors
- Also contains firefighter lawsuits and injury cases brought by others who have been affected by AFFF

AFFF MANUFACTURERS / DISTRIBUTORS

AGC Chemicals

Amerex Co.

Arkema Inc.

Archroma U.S. Inc.

BASF Co.

Buckeye Fire Equipment Co.

Chemdesign Products Inc.

3M Company

Dupont

Chemguard Inc.

Chemicals Inc.

Clairiant Co

Deepwater Chemicals Inc.

Dynax Co.

Nation Ford Chemical Co.

Tyco Fire Products

AFFF PWS SETTLEMENTS TO DATE

3M

DuPont

Tyco

BASF

\$10.3 Billion \$1.185
Billion

\$750 Million

\$316.5 Million

CONTEXTUALIZING THE SETTLEMENTS

• 3M settlement alone is **the largest drinking water contamination settlement in U.S. history** and represents **nearly a quarter** (22%) of 3M's total value.

- Collectively these settlements are the largest source of PFAS funding to date
- Only covers water supplier claims for PFAS treatment and remediation costs
- **Does NOT cover** water supplier claims asserted against any other defendant.



OBTAINING FUNDING FROM THE SETTLEMENTS

"Impacted Water Source"

Settlement language: "a Water Source that has a qualifying test result showing a measurable concentration of PFAS."

Basically: If a water source is found to have any amount of PFAS, it qualifies as an "impacted water source"

American Chemical Society, 2020.

QUALIFYING FOR DUPONT

(1) PWS that draws/collects from any water source that, on or before June 30, 2023, was...found to contain PFAS at any level

AND

(2) All PWS subject to UCMR-5 or any other PWS that is otherwise required under state/federal law to test for PFAS before the UCMR 5 deadline.

Phase 1 vs Phase 2

Phase 1: PWS's with a known detect prior to the settlements

Phase 2: PWS's without a known detect, but which are conducting (or will conduct) PFAS testing

Supplemental Funding

Funds available to qualifying class members that did not initially exceed a State or Federal MCL when it submitted its class form, but exceed such levels at a later date

Special Needs Funding

Compensation for a PWS that incurred extraordinary expenses as a result of PFAS contamination,

Includes, for example, purchasing water from alternative sources and/or drilling new PFAS-free wells.

ACTION MUST BE TAKEN TO PRESERVE CLAIMS

- Phase 2 claims for 3M and DuPont settlements
- Tyco and BASF claims
- Claims against remaining Defendants
- Potential claims against non-AFFF Defendants



This is the <u>only chance</u> to recover money that your municipality is <u>entitled to</u>

The <u>opt out period</u> has already <u>passed</u>

Final opt-out dates

- 3M: December 11, 2023
- Dupont: December 4, 2023

LITIGATION REMAINS ONGOING AGAINST ADDITIONAL DEFENDANTS

AGC Chemicals Amerex Co. Arkema Inc. Archroma U.S. Inc. **Buckeye Fire Equipment Co.** Chemdesign Products Inc. 3M Company

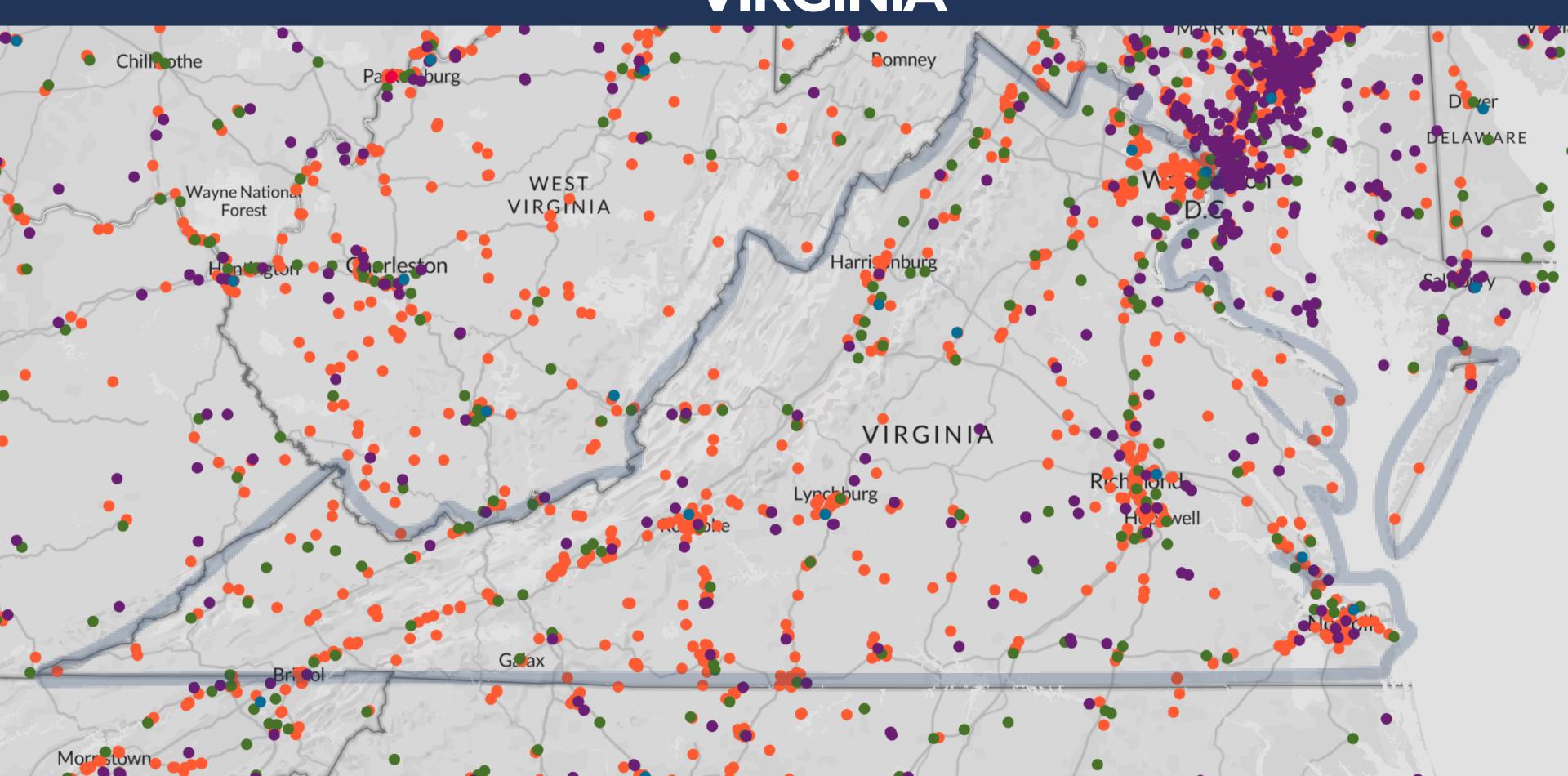


Other Municipal PFAS Recovery Opportunities

- Airports
- Fire training centers
- Single-source polluters
- Wastewater claims
- Solid waste claims

- Microplastics
- Solid waste claims
- Landfill claims
- Claims for 1,4
 dioxane
- Other emerging contaminants

SUSPECTED INDUSTRIAL DISCHARGERS: VIRGINIA



QUESTIONS?

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