



PFAS Strategic Roadmap:
EPA's Commitments to Action 2021-2024

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Briefing Overview

- **EPA's PFAS Strategic Roadmap**
- Background on Per- and Polyfluoroalkyl Substances (PFAS)
- EPA's Approach and Goals
- Key Roadmap Actions
- Bipartisan Infrastructure Law and PFAS

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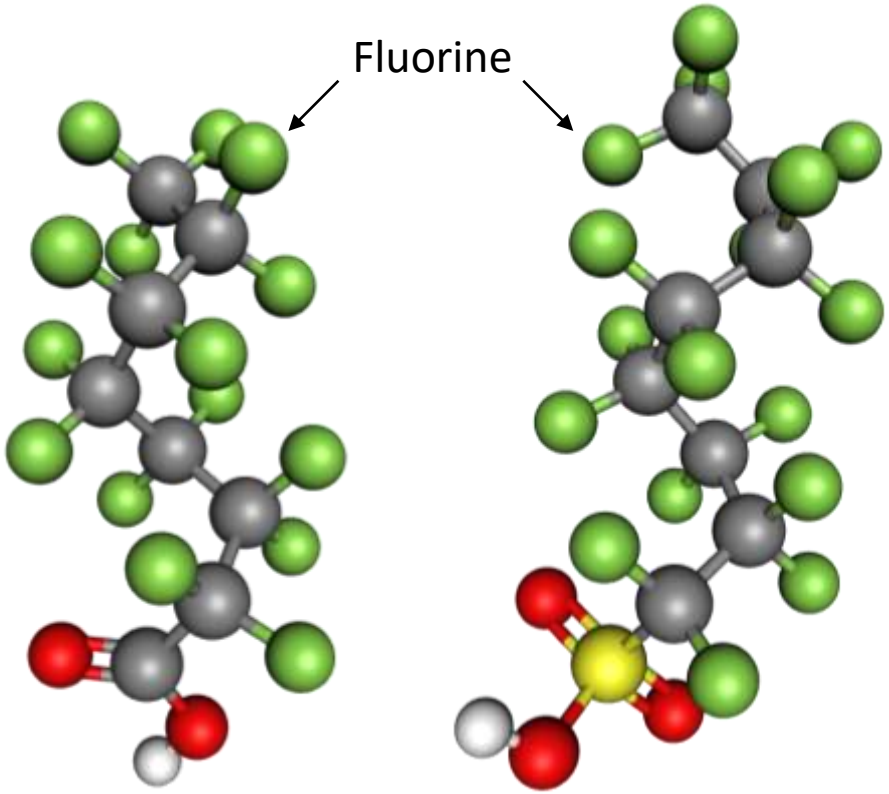
- EPA Administrator Michael Regan established the EPA Council on PFAS in April 2021.
- The Council developed the PFAS Strategic Roadmap, released in October 2021 – a bold, strategic, whole-of-EPA strategy to protect public health and the environment from PFAS.
- The PFAS Strategic Roadmap:
  - Lays out EPA's whole-of-agency approach to tackling PFAS;
  - Sets timelines for concrete actions from 2021 to 2024;
  - Fills a critical gap in federal leadership;
  - Supports states' ongoing efforts; and
  - Builds on the Biden-Harris Administration's commitment to restore scientific integrity.

What Are Per- and Polyfluoroalkyl Substances (PFAS) and Why are We Concerned?



Perfluorooctanoic acid (PFOA)

Perfluorooctanesulfonic acid (PFOS)

PFAS captures a large class of synthetic chemicals.

- Chains of carbon atoms surrounded by fluorine atoms.
- Wide variety of chemical structures.

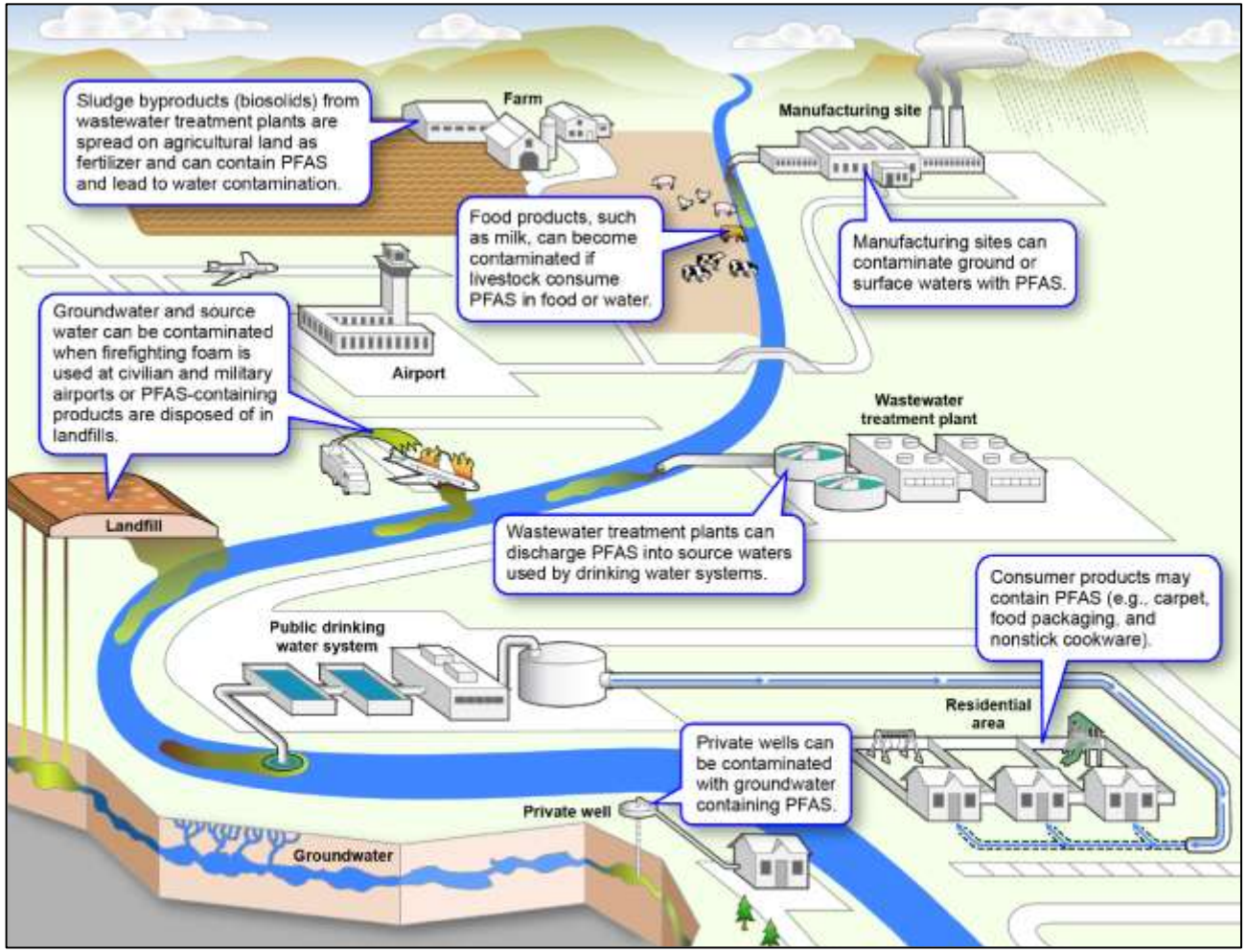
Used in homes, businesses, and industry since the 1940s.

- Used by a number of industries and found in many consumer products.
- Detected in soil, water, and air samples.
- Most people have been exposed to PFAS.

Known or suspected toxicity.

- Potential developmental, liver, immune, and thyroid effects.
- Some are relatively well understood; many others are not.
- Resist decomposition in the environment and in the human body.

PFAS Lifecycle and EPA's Approach



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PFAS contamination presents unique challenges. EPA's approach is centered around the following principles:

- Consider the Lifecycle of PFAS.
- Get Upstream of the Problem.
- Hold Polluters Accountable.
- Ensure Science-Based Decision-Making.
- Prioritize Protection of Disadvantaged Communities.

Source: GAO | GAO-21-37

EPA's Goals in the Strategic Roadmap

RESEARCH

Invest in research, development, and innovation to increase understanding of

- PFAS exposures and toxicities;
- Human health and ecological effects; and
- Effective interventions that incorporate the best-available science.

RESTRICT

Pursue a comprehensive approach to proactively prevent PFAS from entering air, land, and water at levels that can adversely impact human health and the environment.

REMEDIATE

Broaden and accelerate the cleanup of PFAS contamination to protect human health and ecological systems.

Key Roadmap Actions: Ensuring Chemical Safety

Deepen our understanding of PFAS categories through the National PFAS Testing Strategy (*October 2021, June 2022*)	RESEARCH RESTRICT
Strengthen EPA oversight over both new and existing PFAS (*summer 2022 and ongoing*)	RESTRICT
Collect data and improve reporting of how PFAS are used and released (*winter 2022*)	RESEARCH RESTRICT
Establish a PFAS voluntary stewardship program (*ongoing)*	RESTRICT
Reduce PFAS in federal procurement (*ongoing*)	RESTRICT

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Key Roadmap Actions: Protecting our Water

Set enforceable limits for PFOA and PFOS in drinking water (*proposed fall 2022, final fall 2023*)	RESTRICT
Improve PFAS drinking-water data through monitoring, toxicity assessments, and health advisories (*Dec 21 & June 22*)	RESEARCH
Develop technology-based PFAS limits for industrial dischargers (*2022 & ongoing*)	RESTRICT
Address PFAS in Clean Water Act permitting, analytical methods, water quality criteria & fish advisories (*2022 & ongoing*)	RESEARCH RESTRICT
Evaluate risks of PFAS in biosolids (*winter 2024*)	RESEARCH

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Key Roadmap Actions: Cleaning Up PFAS Contamination and Addressing PFAS Air Emissions

Develop regulations to designate PFAS as CERCLA hazardous substances (*PFOA and PFOS proposal published September 2022*)

REMEDIATE

Take regulatory action to tackle PFAS under RCRA (*ongoing*)

RESTRICT

REMEDIATE

Update research and guidance on PFAS destruction and disposal (*fall 2023*)

RESEARCH

REMEDIATE

Build the technical foundation for potential Clean Air Act regulation (*fall 2022 and ongoing*)

RESEARCH

RESTRICT

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Key Roadmap Actions: Research and Development

Develop and validate methods to detect and measure PFAS (*ongoing*)

RESEARCH

Advance the science to assess human health and environmental risks (*ongoing*)

RESEARCH

Evaluate and develop technologies for reducing PFAS in the environment (*ongoing*)

RESEARCH

REMEDIATE

Cross-Program Actions

Engage directly with affected communities

Use enforcement tools to identify and address PFAS releases

Report on EPA's progress and communicate PFAS risks

Coordinate with federal partners on policy strategies

Bipartisan Infrastructure Law and PFAS

The Bipartisan Infrastructure Law makes transformational investments in America's water infrastructure. It provides $10 billion to invest in communities impacted by PFAS and other emerging contaminants, including:

$4 billion	**Drinking Water State Revolving Fund**
$1 billion	**Clean Water State Revolving Fund**
$5 billion	**Small or Disadvantaged Communities Drinking-Water Grants**

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