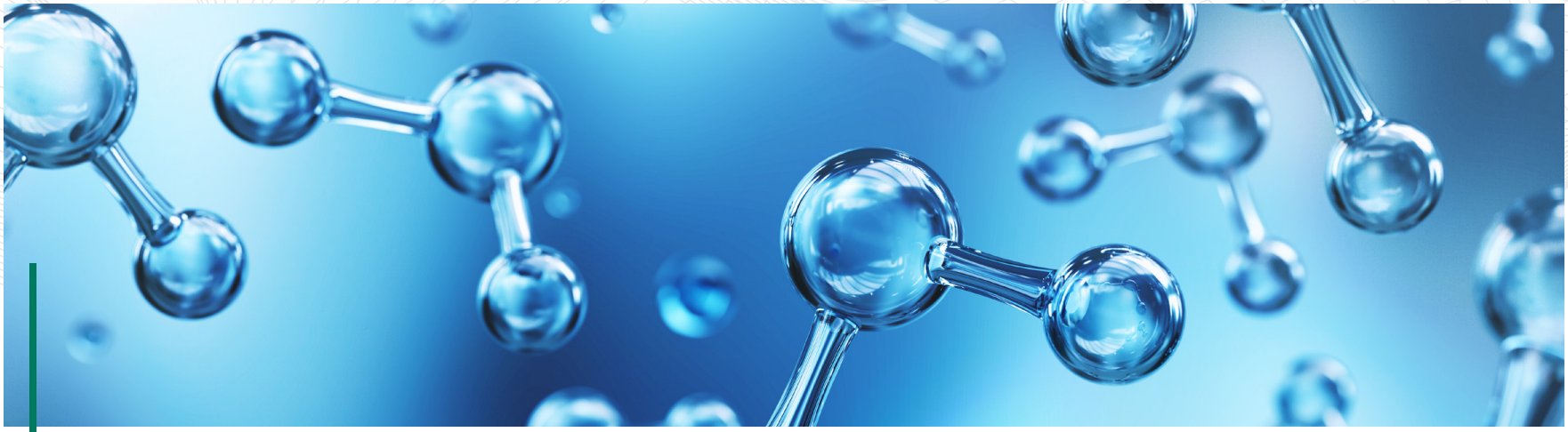
January 2022

USEPA PFAS Roadmap & Timeline

ERM Market Update



In October, the United States Environmental Protection Agency (USEPA) released the Per- and Polyfluoroalkyl Substances (PFAS) Strategic Roadmap: USEPA's Commitments to Action 2021-2024.

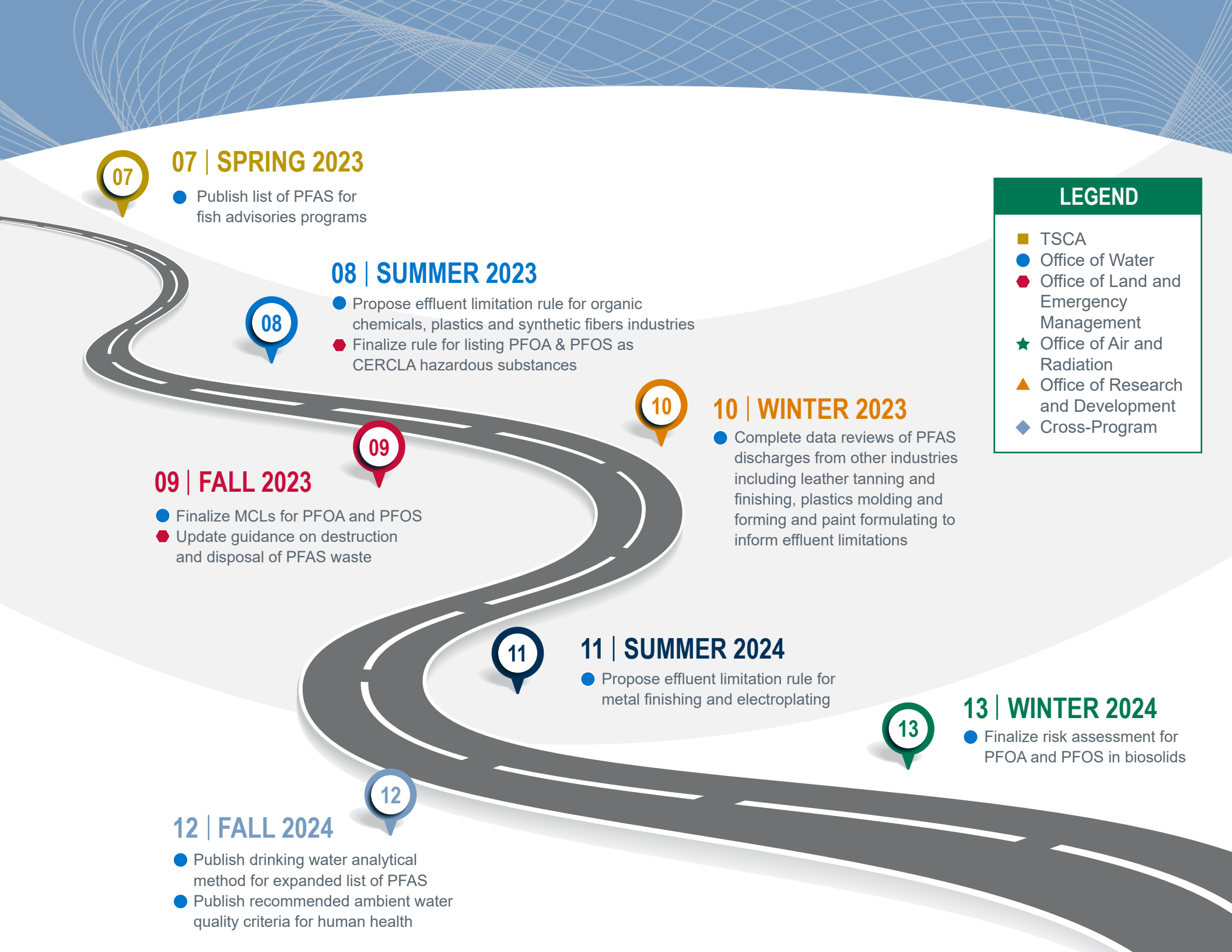
The PFAS Roadmap lays out USEPA's proposed approach to research, restrict, and remediate PFAS and includes regulatory and administrative actions and enforcement activities. Planned actions include:

- obtaining data from companies that manufacture (including import) or have manufactured PFAS,
- continuing research on testing methods, PFAS categorization, and PFAS destruction,
- listing PFOA and PFOS under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to broaden and accelerate the cleanup of PFAS.

The PFAS Roadmap builds on USEPA actions including finalizing several PFAS toxicity assessments and releasing expanded laboratory testing methods. USEPA has also begun to develop a national drinking water standard for PFOA and PFOS and started actions to limit release of PFAS into waterways through restrictions in discharge permits. A detailed timeline of specific actions is provided in the next two pages.

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


LEGEND
TSCA
Office of Water
Office of Land and Emergency Management
Office of Air and Radiation
Office of Research and Development
Cross-Program
01 | FALL 2021
Publish national PFAS testing strategy
Finalize rule for PFAS testing in drinking water under UCMR5 — Completed 12/23/21 and published in FR
Finalize toxicity assessment for GenX — Completed Oct. 2021
Draft total absorbable fluorine method for wastewater
Identify initial PFAS categories for TSCA test orders
Begin engagements with communities directly affected by PFAS
01
02 | WINTER 2021
Begin categorization of PFAS by (1) toxicity and (2) removal technologies
02
03 | SPRING 2022
Enhance PFAS reporting under TRI
Publish Health Advisories for GenX and PFBS
Propose listing PFOA & PFOS as CERCLA hazardous substances
Publish advanced notice of proposed rulemaking to list other PFAS as hazardous substances under CERCLA
Establish voluntary PFAS stewardship program
03
04 | SUMMER 2022
Restrict use of inactive PFAS
Collect PFAS fish tissue data from lakes
Identify initial PFAS categories that are effectively removed by select technologies
04
05 | FALL 2022
Propose MCLs for PFOA and PFOS
Complete validation of Method 1633 for 40 PFAS
Complete facility studies on PFAS discharges (for setting effluent limitations)
Identify mitigation options for PFAS air emissions
Draft methods for evaluating PFAS leaching from solid materials
Develop effective PFAS treatment for drinking water systems
05
06 | WINTER 2022
Finalize new reporting of PFAS manufactured since 2011 under TSCA Section 8
Reduce PFAS discharges through NPDES restrictions & new guidance
Publish recommended ambient water quality criteria for aquatic life
Issue annual report on progress towards PFAS commitments
06
*Expected Schedule


07
07 | SPRING 2023
Publish list of PFAS for fish advisories programs
08
08 | SUMMER 2023
Propose effluent limitation rule for organic chemicals, plastics and synthetic fibers industries
Finalize rule for listing PFOA & PFOS as CERCLA hazardous substances
09
09 | FALL 2023
Finalize MCLs for PFOA and PFOS
Update guidance on destruction and disposal of PFAS waste
10
10 | WINTER 2023
Complete data reviews of PFAS discharges from other industries including leather tanning and finishing, plastics molding and forming and paint formulating to inform effluent limitations
11
11 | SUMMER 2024
Propose effluent limitation rule for metal finishing and electroplating
12
12 | FALL 2024
Publish drinking water analytical method for expanded list of PFAS
Publish recommended ambient water quality criteria for human health
13
13 | WINTER 2024
Finalize risk assessment for PFOA and PFOS in biosolids
LEGEND
TSCA
Office of Water
Office of Land and Emergency Management
Office of Air and Radiation
Office of Research and Development
Cross-Program

USEPA has identified three central directives in the PFAS Roadmap that motivate its goals and actions: (1) continued research to increase understanding of PFAS and its effects on human health and the environment; (2) pursuit of a comprehensive approach to prevent PFAS from entering the environment at levels that are harmful to humans; and (3) to "broaden and accelerate" the cleanup of PFAS contamination. USEPA refers to these directives respectively as "research, restrict, and remediate."

RESEARCH	RESTRICT	REMEDIATE
■ Establish PFAS categories for toxicity, analytical, standards, remediation ■ Establish toxicity values & methods for individual PFAS & PFAS categories ■ Obtain information from industry on PFAS uses & discharges ■ Continue research on PFAS treatment, remediation, destruction, disposal, & control ■ Collect PFAS fish tissue data ■ Educate/understand communities with environmental justice concerns	■ Use authority under TSCA to review new and existing uses ■ Deny LVEs (low-volume exemptions) for new PFAS ■ Close door on abandoned PFAS and uses ■ Initiate PFAS studies funded by manufacturers under TSCA orders ■ Enhance TRI reporting ■ Limit emissions and discharges from industrial facilities ■ New voluntary program to reduce use and release of PFAS	■ List PFOA & PFOS as hazardous substances under CERCLA and/or RCRA ■ Accelerate identification & deployment of technologies to treat, remediate, destroy, dispose, or mitigate PFAS ■ Maximize responsible party performance and funding for investigation and cleanup ■ Provide resources and assistance to communities

On-Going Efforts

- Ensure a robust review process for new PFAS under TSCA
- Review previous decisions on PFAS under TSCA
- Complete toxicity assessment for 5 more PFAS: PFHxA, PFHxS, PFNA, PFDA, PFBA – draft in Spring to Fall 2022.
- Develop and validate methods to detect and measure PFAS in the environment
- Advance the science to assess human health and environmental risks from PFAS
- Evaluate and develop technologies for reducing PFAS in the environmentv
- Use enforcement tools to better identify and address PFAS releases at facilities
- Educating the public about the risks of PFAS

Key Contacts

For more information, contact your current ERM consultant or one of the following experts below:

Maureen.Leahy@erm.com (CT, USA)

Nadine.Weinberg@erm.com (MA, USA)