PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS): PROJECT LIFE CYCLE SOLUTIONS

Weston's program and project delivery structure is designed to enable our technical experts to support any PFAS project across the country. Personnel are trained and ready to bring science-based, site-specific solutions to your project.

TECHNICAL CAPABILITIES AND EXPERTISE

Weston has more than two decades of PFAS experience completing PFAS investigations and remediation. We have multiple contract vehicles with capacity to perform these services, and an in-house, nationwide network of PFAS professionals. Our team draws from Weston's Emerging Contaminants Community of Practice with SMEs in chemistry, hydrogeology, biota collection and analysis, modeling/forensics, data visualization, risk assessment, mitigation, bench- and pilot-scale testing, feasibility studies, and remediation. Our experience allows Weston to deliver comprehensive solutions for our clients. We are the go-to consultant for regulatory and technical guidance, and have built a reputation for solving the toughest PFAS challenges.

2005 & Earlier	*2005 - 2015*	*2015-Present*
• Developed original protocols for sampling and analysis of soil, groundwater, and biota with EPA and State Agencies. • Initiated first-of-its-kind SI and RI Program.	• Completed groundbreaking ecosystems bioaccumulations studies and exposure assessments. • Began performing remediation after obtaining RODs from State Agencies.	• Developed groundbreaking air emissions testing and analytical protocols. • Completed multiple SIs and remedial and mitigation programs. • Active participant in developing technical regulatory guidance documents.

FULL LIFE CYCLE SOLUTIONS

Our national network of technical specialists are well-informed in the latest regulations and highly experienced in the sciences and technologies needed to tackle PFAS challenges for our clients. We deliver technically sound solutions that meet and exceed our clients' objectives. In addition, our teams continue to advance the science of PFAS by developing innovative solutions and ensuring that current best practices are implemented across our services. Our services include:

- Source Identification, Characterization, Investigation, and Feasibility Studies
- Bench & Pilot Studies
- Interim Action Measures & Permanent Solutions
- Remediation/Mitigation
- Forensic and Multi-variate Statistical Analyses
- Air Quality Studies, Emission Testing, Monitoring, and Modeling
- Compliance, Permitting, Regulatory Support
- Facility Engineering Support & PFAS Treatment Integration
- Information/Data Management
- Waste Stream Investigation, Characterization, and Management
- Water/Wastewater Solutions
- AFFF/ARFF Decontamination & F3 Transition Services
- Community Relations/Risk Communication

PROJECT LIFECYCLE SOLUTIONS
CONFIDENTIALITY AND CREDIBILITY

Source Identification and Assessment

PFAS Air Stack Emissions, Residues, and Dispersions Testing, Material Coating Facility

- Performed emissions testing for PFAS at a polymer product manufacturer using novel methods.
- Data collected resulted in identification of sources of PFAS found in area drinking water supplies.

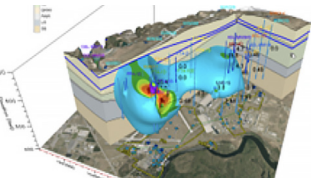
PFAS Baseline Study: Lake Fish Specimen, Surface Water, and Sediment, New Hampshire Department of Environmental Services, NH

- Conducted near-statewide study of PFAS in fish tissue to determine human health risks. Collected co-located surface water and sediment samples.
- Data collected allowed state regulators to issue protective consumption advisories and other researchers to further studies on uptake and bioaccumulation of PFAS in lake food webs.

Investigation/Characterization

PFAS Site Investigation and Characterization, Nantucket Memorial Airport, MA

- Completed rapid risk mitigation and risk communication to stakeholders.
- Comprehensive site/remedial investigations including forensic evaluation.
- AFFF-to-F3 conversion support, ARFF F3 testing, remedial investigation and design.



PFAS Fate and Transport Characterization, USACE Baltimore, Fort Drum, NY

- Implemented high-resolution site characterization techniques modified specifically for PFAS
- Design, construction, O&M of mobile treatment system to manage IDW during investigation and minimize off site T&D
- Innovative application/study of Hydra-Sleeve™ sampling methodology to improve outcomes and meet project objectives

Mitigation/Remediation

Design, Construction, Startup, and Operation of Groundwater Extraction and Treatment for PFAS at a Region 1 Superfund Site

- Selected the most reliable and cost-effective approach to perform a fast-track design and construction of a supplemental process to remove PFAS from extracted groundwater where PFAS was not a chemical of concern.
- Designed all new process, mechanical, electrical, and control systems to seamlessly integrate into the existing highly sophisticated groundwater treatment system. Since startup, the PFAS treatment process has provided highly effective removal of PFAS.

Data Gap Investigations and Streamlined Engineering Evaluations/Cost Analyses to Support Non Time-Critical Removal Actions at Wright Patterson AFB, OH

- Performed Data Gap Investigations, developed streamlined Engineering Evaluations/Cost Analyses, and conducted a treatability study including the design-build of a groundwater extraction and treatment system and PFAS removal system.
- Mobilized to the site within 72 hours of award to begin site reconnaissance, procurement of long-lead items, and siting and permitting activities. The Data Gap Investigations used direct push technology and rotary sonic rigs to drill and install soil borings, monitoring wells, and extraction wells.