

The widespread use of per- and polyfluoroalkyl substances (PFAS) has led to a global human health dilemma. This dilemma is now the focus of federal, state, and local policymakers across the United States. There is a consensus that PFAS contamination in our soil and water must be removed and regulatory authorities are developing comprehensive directives to remedy the problem.

Challenge

While there are thousands of variations of PFAS chemicals, the U.S. Environmental Protection Agency has just begun to put in place the PFAS regulatory schematics by setting Lifetime Drinking Water Health Advisory level of 70 ppt for two types of PFAS, perfluorooctanoic acid (PFOA) and perfluoro octane sulfonate (PFOS). Many states have enacted new PFAS regulations and standards with some, even more stringent than the EPA's. Cleanup of PFAS contamination is quickly moving from voluntary to mandatory across the nation and the globe.

PFAS chemicals are found in high concentrations in the water and soils at and/or near the locations where the chemicals were manufactured, used, and discarded. PFAS migrates from the original source site into streams, rivers, and groundwater. The contamination is then transferred to our bodies when we drink the water and eat the plants and animals that have been exposed to PFAS.

Solutions

As experts on remediating contaminated water and soil, Working Lands Investment Partners (WLIP) delivers top environmental scientists and engineers to provide customized solutions removing PFAS contaminants and restoring the ecosystems affected by these toxic chemicals. The preliminary focus of remediation efforts is recovery and elimination of these contaminants from high human-exposure locations. Extensive work to determine PFAS hot spots is well underway, and thousands of cleanup locations have been identified.

PFAS extraction from water is the first step in solving the the problem. State-of-the-art technology to decontaminate PFAS laden water is available and ready for immediate deployment. Advanced Mobile Filtration Services LLC (AMFS) provides the most efficient and cost-effective solution for removal of PFAS. The AMFS system employs membrane separation technology that maximizes fluid recovery and minimizes disposal costs. AMFS technology reduced a sample contaminated with + – 1,000 ppt PFAS to levels 4 times lower than the current EPA's standard.

In addition to water cleanup, WLIP's comprehensive approach to PFAS remediation includes extraction and in-situ destruction of the chemicals in the soil. Elimination of PFAS extracted from water and soil will be undertaken in compliance with methods approved by regulatory authorities.

***Working Land Investment Partners** has a long history of implementing successful water and soil remediation, restoration, rehabilitation, and regeneration. Our ecosystem restoration work delivers economical, sustainable, and verifiable solutions that alleviate the negative impacts of contamination resulting from human activity.*