FluorofIX™

NOT JUST ANOTHER IX SOLUTION

SCIDEV

FluorofIX™ is a cutting-edge technology that leads the world in treating per- and poly-fluoroalkyl substances (PFAS).

PFAS is a group of over 7,000 man-made chemicals collectively known as “forever chemicals” that have historically been used in various consumer products.

These chemicals accumulate in the human body and are linked to negative health effects such as cancer, infertility, and organ damage. PFAS contamination occurs in air, soil, surface water and ground water system creating downstream contamination of many drinking water sources.

Since its emergence as a contaminant of concern, a range of technologies have been developed attempting to remediate PFAS-contaminated water and soil. SciDev’s FluorofIX™ technology can treat large volumes of highly contaminated water to below the limit of reporting of 0.00023µg/L and generate waste volumes of less than 0.001%.

Highlights

FluorofIX™ - the most effective, sustainable and commercially viable treatment solution currently available on the market.

- Treated > 3 billion litres of water to non-detect
- Treatment performance guaranteed
- Demonstrated at >500µg/L Sum of PFAS
- Can remove PFAS down to the lowest limits of reporting (0.0001µg/L)
- Effective and complete removal of both long-chain and short-chain PFAS
- Complete removal of oxidisable precursors
- Fully regenerable using SciDev’s RegenIX (TM) resin regeneration process
- Sustainable low waste solution “Best in class for waste generation”
- Fully scalable technology 1l/s to >100l/s
- Mobile, temporary and permanent installations available

FluorofIX™ is highly effective at removing the full profile of long-chain and short-chain PFAS molecules, whereas other solutions currently target long-chain PFAS molecules only. A multi-barrier, sustainable and economical solution for the treatment of PFAS compounds, FluorofIX™ uses SciDev's proprietary Anion Ion Exchange technology to remove PFAS effectively and efficiently from contaminated water, eliminating the risk of contaminant breakthroughs and minimising byproduct waste generation.

FluorofIX™ utilises a series of specialist weak and strong base ion exchange resins which are selected and activated using a propriety process enabling an extremely high holding capacity for PFAS while achieving treatment to the lowest possible limits of detection.

Our FluorofIX™ systems are mobile and modular, allowing for rapid deployment to site and can be easily reconfigured to treat a wide range of contaminated surface water, groundwater and liquid waste and can allow highly contaminated material to be treated and then safely discharged to the environment following treatment.

FluorofIX™ has been effectively used to treat PFAS-contaminated water across a range of applications treating over three billion litres of PFAS-contaminated water to date. All waters treated have been validated as PFAS-free, and all treatment objectives achieved.