

EMERGENCY RESPONSE - Utilizing permanent membrane filtration, which rapidly and efficiently reduces volumes of highly contaminated water sources.

OVERVIEW Advanced Mobile Filtration Services LLC provides a highly efficient and effective solution for the removal of per- and polyfluoroalkyl substances (PFAS) and constituents of concern (COCs) from contaminated water, typically derived from aqueous film-forming foams (AFFF) and other manufacturing sources.

The AMFS system employs patented permanent membrane separation technology. The platform's Nano and Reverse Osmosis permanent membrane filters are used when filtering per - and polyfluoroalkyl substances (PFAS) or (PFOA) from contaminated water sources. AMFS Nano and RO filtration membranes can filter > (0.001µm – 30 Daltons) using low-pressure to obtain high-volume flow rates (125+ gpm). Unlike traditional spiral-wound filter systems, AMFS vibration technology keeps its permanent membranes from fouling and can remove the smallest entrained solids. Depending on the type of fluids filtered, flow rates can vary.

The two-phase system separation rejects particle sizes from the feed water, resulting in a concentrated discharge for disposal/handling and a potable water effluent that can be reused as needed or disposed of on location to a municipal wastewater treatment plant.

AMFS is an eco-friendly company. Its process does not use any additional chemicals or flocculants. AMFS permanent filter membranes are reusable. Standard mobile filtration systems typically use carbon media filters that are disposed of in landfills or incinerated causing additional environmental issues. The system generates near-potable to potable water for reuse or disposal to sanitary sewer systems. Major projects can be accomplished in shorter times without hauling vast amounts of contaminated fluid via tanker trucks or rail cars to disposal sites. Less truck and rail car traffic further mitigates the risk of accidents on America's highways and rail systems and lessens our carbon footprint.

The AMFS patent-protected system is one of the most advanced in the world and – by all accounts – the most advanced mobile system in commercial use.

AMFS has filtered oily water, bilge water, Arsenic, Selenium, Ammonia, Bromide, Groundwater Remediation, Fuel Tank Storage, Landfill Leachate, and Viruses. AMFS filtration system can also create potable water from contaminated waters.

Advanced Mobile Filtration Services (AMFS) provides on-site Filtration Services with our state-of the-art 53 'mobile filtration equipment anywhere in world.



AMFS per - and polyfluoroalkyl substances third party Results – by (EPA certified laboratories)

Northern Lakes Services Inc. For PFAS and derivatives were drastically reduced to ND or near ND. Near ND results listed as follows:

EPA 537 (Mod)	Result, ng/L
Perfluorooctanesulfonic acid (PFOS)	2.6
Perfluorohexanoic acid	9.7
Perfluoroheptanoic acid	4.1
Perfluorooctanoic acid (PFOA)	4.7
Perfluoropentanoic acid	5.0

Pace Analytical - For constituent of concern (COC) and derivatives were drastically reduced results listed as follows:

Contaminant	Feed (PPM)	Permeate (PPM)
Chloride	3,345	369
Aluminum	0.651	0.08
Arsenic	6.67	0.039
Selenium	2.20	0.0095

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