



PFAS SERVICES FOR THE RAILROAD INDUSTRY

DELIVERING IN THE MARKET

Groundbreaker. Game changer. Innovator.

TRC is a global firm providing environmentally focused and digitally powered solutions that address local needs. For more than 50 years, we have set the bar for clients who require consulting, construction, engineering and management services, combining science with the latest technology to devise solutions that stand the test of time. TRC's more than 7,000 professionals serve a broad range of public and private clients, guiding complex projects from conception to completion to help solve the toughest challenges. We break through barriers for our clients and help them follow through for sustainable results.

MARKETS WE SERVE



Power & Utilities



Transportation



Real Estate



Water



Government



Environmental & Sustainability



Digital Solutions



PFAS SERVICES FOR THE RAILROAD INDUSTRY

PFAS are a group of more than 5,000 man-made chemicals that are found in a variety of products including firefighting foams, lubricants and hydraulic fluids. The regulatory framework and science of PFAS are rapidly evolving, creating business and environmental risks related to storage, management and use of PFAS-containing materials.

In the rail sector, PFAS-containing materials may be present in firefighting foam used in derailment and emergency/fire responses and in freight and chemicals utilized for maintenance and operating purposes. PFAS-containing materials may also be utilized in tenant operations on leased properties. Emerging issues for the railways include new regulatory requirements for sampling wastewater discharges, characterization of waste and impacts of aqueous film-forming foam (AFFF) to the environment when used by third party response teams.

An increasing number of states and municipalities are conducting groundwater, surface water, and soil sampling to determine PFAS levels in these media. Many states and municipalities are also requiring facilities that discharge stormwater and wastewater to sample receiving streams for PFAS compounds to identify potential sources of PFAS.

What Do You Care About?	
Question	TRC's Solutions
Do I have PFAS?	<ul style="list-style-type: none"> • Risk management reviews/ planning • Site investigations • Water and wastewater testing • Air testing
Is it really mine?	<ul style="list-style-type: none"> • Forensics • Fate and transport modeling • Background sampling
How much is it going to cost?	<ul style="list-style-type: none"> • Risk assessment • Alternative remedies • Cost/scenario modeling
When will I be done?	<ul style="list-style-type: none"> • Regulatory negotiations • Smart closure strategies

OUR SERVICES

Railroads are advised to develop proactive response strategies to better understand current and historical use of fluorinated chemicals in their operations. Some potential action items that TRC can support you with are as follows:

- Conduct a facility or company-wide risk management review to understand potential PFAS exposure
 - Initiate system-wide chemical inventories to identify PFAS-containing materials (i.e., hydraulic oils, lubricants, etc.) in the supply chain
 - Create an inventory of current and historical locations of AFFF emergency responses and leased properties and determine proximity of these areas to environmental receptors
 - Track regulations in applicable states and understand PFAS/AFFF waste disposal requirements at different facilities
- Initiate a system-wide inventory of leases that may use PFAS-containing materials in manufacturing or firefighting foams
- Perform desktop reviews of potential property purchases and sales to identify potential PFAS presence
- Develop and update plans and standard operating procedures to address environmental, health and safety risks, such as stormwater pollution, hazmat spills, and wastewater discharges, especially for when firefighting foams or encapsulants are mobilized
- Implement municipality surveys to determine if and where PFAS-containing AFFF will be applied in the event of an emergency

Nationwide Expertise in PFAS Research and Regulation

TRC's Center of Research and Expertise (CORE) is a national leader in PFAS risk management, regulatory support, toxicity evaluation, forensics, fate and transport, sampling, testing and remediation methods. TRC will bring our extensive experience to your project to help you manage your concerns, solve your problems and move on to your next priority with confidence.

TRC's overall goal is to help clients manage their risks at a time of regulatory uncertainty. With staff located throughout the country, we bring both a national and local perspective to PFAS-related issues and how developing legislation will impact the future.



