U.S. ENVIRONMENTAL PROTECTION AGENCY

TechDirect, October 1, 2025

Welcome to TechDirect! TechDirect has a new look! Starting October 1st, TechDirect will be distributed using a new platform. Please feel free to reply to this email or share your comments online with feedback.

If you feel the service is valuable, please share TechDirect with your colleagues. Anyone interested in subscribing may do so on CLU-IN at https://clu-in.org/techdirect. All previous issues of TechDirect are archived there. The TechDirect messages of the past can be searched by keyword or can be viewed as individual issues.

TechDirect's purpose is to identify new technical, policy and guidance resources related to the assessment and remediation of contaminated soil, sediments and groundwater.

Mention of non-EPA documents or presentations does not constitute a U.S. EPA endorsement of their contents, only an acknowledgment that they exist and may be relevant to the TechDirect audience.

> Upcoming Live Internet Seminars

ITRC: Overview of the Tire-Derived Chemicals 6PPD & 6PPD-quinone Training - Tuesday, October 7, 2025, 1:00PM-2:30PM EDT (17:00-18:30 GMT). This course provides a basic overview of the science and policy measures surrounding the Tire Anti-Degradants 6PPD and 6PPD-q. Attendees will gain insight into the current state of knowledge on topics such as: background and use of 6PPD in tires, toxicity in aquatic species and humans; occurrence, fate, and transport; measuring, mapping, and sampling; mitigation measures; and policy, regulations, and laws. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

ITRC: PFAS Chemistry Training - Thursday, October 9, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). The Interstate Technology & Regulatory Council (ITRC) is presenting an introductory training on the basics of per- and polyfluoroalkyl substances (PFAS) chemistry. This training supplements the ITRC PFAS Introductory training and ITRC Beyond the Basics Training sessions. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

ITRC: Contaminants of Emerging Concern (CEC) Identification Framework Training - Tuesday, October 14, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). In 2023, the ITRC Contaminants of Emerging Concern (CEC) Framework was published to help environmental regulatory agencies and other stakeholders identify, evaluate, and manage CEC's while acknowledging uncertainties in their environmental fate and transport, receptor exposure, and/or toxicity. The framework is meant to help environmental regulatory agencies and other stakeholders by providing examples of CEC monitoring programs and guiding the user through the process of identifying CEC key characteristics, how to communicate real and perceived risk from CEC to the public, and how laboratory analytical methods can be used in the identification process. This ITRC CEC training presents this entirely new framework for identification, prioritization,

and communication of CEC. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

RemPlex: Moab UMTRA Project: An Update on Progress Toward Closure at a Complex Groundwater Site - Tuesday October 14, 2025, 1:00PM-2:30PM EDT (18:00-19:30 BST). The U.S. Department of Energy's Moab Uranium Mill Tailings Remedial Action (UMTRA) Project is focused on the relocation of mill tailings and the remediation of contaminated groundwater at the site of a former uranium-ore processing facility. This seminar will provide an update on progress being made through collaborations with scientific partners and regulatory agencies as the Moab UMTRA Project moves towards site closure. Panelists will discuss new and expanded groundwater investigations that have been completed to better understand contaminant behavior and refine remediation strategies. Presented by the Center for the Remediation of Complex Sites (RemPlex). For more information and to register, see https://www.pnnl.gov/remplex-seminars.

M2S2: Military Munitions Response Program (MMRP) Remedial Design - Tuesday, October 21, 2025, 1:00PM-4:00PM EDT (17:00-20:00 GMT). This webinar will discuss remedial designs and their applicability to projects under the Military Munitions Response Program (MMRP). Topics covered will include the intent of remedial designs and the types of projects for which they are best suited. It will also discuss scoping the remedial design, preparing the MR-QAPP for the remedial design, and finally describe some case study examples. For more information and to register, see https://www.clu-in.org/live.

From Cells to Solutions: Emerging Tools for Studying Health and Disease (Three Part Series) - Session I - Wednesday, October 22, Session 2 - Monday, November 3, and Session 3 - Monday, November 10, 2025, 2:00PM-4:00PM EDT (18:00-20:00 GMT). The National Institute of Environmental Health Sciences (NIEHS) Superfund Research Program (SRP) is hosting a Risk e-Learning webinar series focused on the use of innovative, human-relevant technologies to better characterize the biological effects of chemicals. New technologies, including advanced cell-based assays, organoids, and computational modeling approaches, are expanding the toolbox researchers use to answer previously difficult or unanswerable questions. Presenters will discuss how these emerging methodologies are being applied to uncover mechanistic insights, improve predictive accuracy for human health outcomes, and refine risk assessment frameworks. For more information and to register, see https://www.clu-in.org/live.

ITRC: Introduction to Hydrocarbons Training - Thursday, October 23, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). Petroleum is a complex mixture of many compounds. Regulatory and technical guidance documents commonly focus on the hydrocarbon components of that mixture, or perceived risks that they present. However, focusing on a specific area of concern often causes practitioners to overlook other aspects of a release. For example, concerns related to exposure to total petroleum hydrocarbons (TPH) risks may be overlooked while pursuing concerns related to light non-aqueous phase liquid (LNAPL) recovery or petroleum vapor intrusion (PVI). This class is designed to provide a basic overview of hydrocarbon behavior in the subsurface and how to scientifically assess concerns arising from the release of petroleum products into the environment. It will highlight key issues that help identify and manage TPH, LNAPL, and PVI risks together. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

ITRC: Reuse of Solid Mining Waste Training - Tuesday, October 28, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). Solid mining waste represents a significant quantity of waste material in the United States and around the world. Solid mining waste has a range of physical and chemical properties that make it both potentially

valuable and potentially hazardous to human health and the environment. From a commercial perspective, mining removes most of the primary minerals of interest; however, waste materials can still contain valuable minerals and other materials that can be recovered. The ITRC Reuse of Solid Mining Waste training and guidance document is geared towards state regulators and environmental consultants, mining and manufacturing stakeholders, community and tribal stakeholders, and other who have an interest in the potential reuse of solid mining waste. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

FRTR Presents...Advancing Remediation: Lessons Learned and Innovative Approaches at Federal Facilities - Monday, November 17, 2025, 1:00PM-3:00PM EST (18:00-20:00 GMT). The Fall 2025 FRTR Meeting will offer a unique opportunity for federal cleanup program managers and other remediation community representatives to identify and discuss priority cleanup issues, share lessons learned, and form collaborative working groups to pursue subjects of mutual interest. This virtual session will feature presentations from the Pacific Northwest National Laboratory and the Savannah River National Laboratory. For more information and to register, see https://www.clu-in.org/live.

> New Documents and Web Resources

Superfund Optimization Progress Report (August 2025). The 2025 report provides a summary of the optimization reviews and optimization-related technical support projects completed during fiscal year 2018 through 2022. These efforts generally result in improvements to remedy effectiveness, cost reduction, technical improvement, site closure, and energy and material efficiency. View the report at https://semspub.epa.gov/src/document/HQ/100003728.

EPA Superfund Program - RPM Bulletin 2025-02: Environmental Forensic Tools for Understanding PFAS Fate and Transport. This document provides an introductory explanation of tools and methods used in per- and poly-fluoroalkyl substances (PFAS) forensic analyses, in order to assist US EPA project teams with reviewing PFAS forensics analyses. To view the document, visit https://www.clu-in.org/RPMBulletin-2025-02.

NAVFAC Fact Sheet: Enhanced Monitored Natural Recovery (EMNR) for Sediment Sites. EMNR is a remedial approach that builds upon monitored natural recovery, which relies on natural processes such as sediment deposition, dissolution, chemical transformation, and/or the reduction in exposure to chemicals in surficial sediment over time. EMNR is an in situ remedial approach that involves placing a thin layer of clean sand or sediment over impacted sediment to accelerate natural recovery processes. This fact sheet outlines the technology background, criteria for selecting suitable sediment sites, and EMNR implementation. In addition, two case studies are included that demonstrate the successful application of EMNR at Navy sites. This information will aid in discussions with stakeholders about the benefits of implementing EMNR at impacted sediment sites. To view the document, visit https://exwc.navfac.navy.mil/Portals/88/Documents/EXWC/Restoration/er_pdfs/e/NAVFAC%20EMNR%20Fact%20Sheet%20Aug%202025.pdf?ver=1KyGGrUrrZAJU2YDGmVTew%3d%3d.

ContaminatedLand.info. With a focus on sustainable and risk-based land management, this platform offers information on best practices, regulatory considerations, and innovative solutions for addressing contamination challenges. To view these resources, visit https://contaminatedland.info/.

> Conferences and Symposia

6th ENSOr Workshop: Managing Emerging Contaminants for healthy soils: Are we ready?!, October 13-14, 2025, Brussels, Belgium. EmConSoil, OVAM's multi-stakeholder network on emerging soil contaminants, is excited to announce the call for abstracts for its upcoming workshop which will center around the evolving issue of emerging contaminants in soil and groundwater. The goal is to share knowledge, foster dialogue, and explore innovative approaches.
For more information, please visit http://www.emconsoil.eu/.

Design and Construction Issues at Hazardous Waste Sites (DCHWS West), November 3-5, 2025, Denver, CO. The US EPA and Society of American Military Engineers (SAME) co-sponsor the DCHWS West which will be held in Denver, Colorado. The applications of engineering and science associated with cleaning up hazardous waste sites continue to evolve rapidly. The event's primary goal is to facilitate an interactive engagement between professionals from government and the private sector related to relevant and topical issues. For more information, please visit https://sites.google.com/samephiladelphiapost.org/dchws/west-symposium/fall-2025-dchws.

Global Summit on Environmental Remediation, November 4-6, 2025, Richland, WA. This international forum focuses on challenges, barriers, and innovative solutions for successful remediation and long-term stewardship of contaminated sites. The Global Summit is set for November 4-6, 2025, at Pacific Northwest National Laboratory in Washington state. This event is organized in cooperation with the International Atomic Energy Agency's Network of Environmental Remediation and NORM Management (ENVIRONET). For more information, please visit https://www.pnnl.gov/projects/remplex/2025-summit.

NOTE: For TechDirect, we prefer to concentrate mainly on new documents and the Internet live events. However, we do support an area on CLU-IN where announcement of conferences and courses can be regularly posted. We invite sponsors to input information on their events at https://clu-in.org/courses . Likewise, readers may visit this area for news of upcoming events that might be of interest. It allows users to search events by location, topic, time period, etc.

If you have any questions regarding TechDirect, contact Jean Balent at (202) 566-0832 or balent.jean@epa.gov.

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