



TechDirect, March 1, 2025

Welcome to TechDirect! Since the February 1 message, TechDirect gained 73 new subscribers for a total of 44,165. 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.

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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 Funding Opportunities

ESTCP FY 2026 Solicitation. The Department of Defense's Environmental Security Technology Certification Program (ESTCP) released a solicitation on January 7, 2025, seeking proposals for demonstrations of innovative environmental and installation energy technologies as candidates for funding beginning in FY 2026. The solicitation requests pre-proposals via Calls for Proposals to federal organizations and via a Broad Agency Announcement (BAA) for private sector organizations in areas such as Innovative Technology Transfer Approaches, Management of Impacted Soils and Waters, and Demonstration of Munitions Response Technologies for Underwater Environments at Live Sites. Pre-proposals are due March 6, 2025 by 2 p.m. ET. For more information, please visit

<https://serdp-estcp.mil/workwithus/solicitation?id=e287f235-808c-4af2-b223-d4096ff29dba> .

> Upcoming Live Internet Seminars

ITRC: Microplastics Training - Thursday, March 6, 2025, 1:00PM-3:00PM EST (18:00-20:00 GMT). In response to one of the biggest emerging environmental concerns, ITRC formed the Microplastics Team in 2021 to develop the Microplastics Guidance Document. Plastics have become pervasive in modern life and are now used in a wide range of commercial and industrial applications. Microplastics may result from the degradation and fragmentation of larger plastics, or they may be intentionally produced for specific applications and products. The online ITRC Guidance Document is geared toward an audience with reasonable level of scientific understanding, but not

microplastic-specific knowledge. The guidance provides a user with information on microplastics and the state of the applied science without having to go to the scientific literature. The target audience for the guidance and this training course includes state regulators and environmental consultants, as well as community and tribal stakeholders.

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

ITRC: Vapor Intrusion Mitigation (VIM-1) - Part II - Tuesday, March 11, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). When certain contaminants or hazardous substances are released into the soil or groundwater, they may volatilize into soil gas. Vapor intrusion (VI) occurs when these vapors migrate up into overlying buildings and contaminate indoor air. ITRC has previously released guidance documents focused on VI, including the "Vapor Intrusion Pathway: A Practical Guidance" (VI-1, 2007) and "Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management" (PVI, 2014). However, ITRC has received multiple requests for additional details and training on mitigation strategies for addressing this exposure pathway. The ITRC Vapor Intrusion Mitigation Team (VIMT) created ten fact sheets, 16 technology information sheets, and 4 checklists with the goal of assisting regulators during review of vapor intrusion mitigation systems, and helping contractors understand the essential elements of planning, design, implementation, and operation, maintenance and monitoring (OM&M) of mitigation systems. The Vapor Intrusion Mitigation training is a series of eight (8) modules, presented over two sessions. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

ITRC: Pump & Treat Optimization Training - Thursday, March 13, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This training aims to summarize existing information and best practices while also developing a systemic and adaptive optimization framework specifically for P&T well-network design and management. The primary audience for this training is environmental project decision-makers, which may include federal, state, tribal, and various local agency employees; contractors to these agencies; and potentially liable parties and their engineers and consultants as well as involved stakeholders. Generally, those involved in designing, building and operating, and optimizing pump & treat systems would benefit. The goal of the training is to provide a roadmap for optimizing a P&T system and refining the remedial strategy or shifting toward another remedial approach. Pump & Treat optimization should be systematic and data-based, and the training and document aim to provide tools and direction to assist in this rigorous process. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

Groundwater-Surface Water Interactions Regions 4 and 5: Theory and Practice - Wednesday, March 19, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This webinar will discuss groundwater and surface water interactions in two presentations. The first presentation is an introduction that focuses on principles and rudimentary cost-effective techniques that can be used to evaluate groundwater-surface water interactions with the expectation that groundwater discharge to surface water is typically not homogeneous and diffuse but rather heterogeneous and focused on preferential pathways of discharge. The second presentation cover a geophysics characterization approach used to understand ground water/surface water interactions at the Bonita Peak Mining District Superfund Site, and the impact the findings had on the Conceptual Site Model. For more information and to register, see <https://www.clu-in.org/live>.

ITRC PFAS Beyond the Basics: PFAS Human Health, Ecological Effects and Regulations Training - Tuesday, March 25, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This training class builds on the earlier information for introductory PFAS topics presented in the PFAS 101 CLU-IN training. It provides more in-depth information for human health effects, ecological toxicity and ecological risk assessment, PFAS regulations, and AFFF alternatives and replacement. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

ITRC: Managed Aquifer Recharge (MAR) Training - Thursday, March 27, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This training is intended for state regulators and stakeholders who may not be familiar with the opportunities and challenges associated with MAR. It provides a basic understanding of MAR concepts, along with case studies, that showcase examples of successful MAR applications. For those who are familiar with MAR, the training gives an overview of the components of the MAR process along with the important considerations associated with each component necessary for the design and implementation of a MAR project. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

> New Documents and Web Resources

New ITRC Resource - Reuse of Mining Waste Guidance Document Out Now! ITRC has a new guidance, Reuse of Solid Mining Waste, designed to help you determine if there is an appropriate use for solid mining waste. Solid mining waste represents a significant quantity of waste material in the United States and around the world. These materials have a range of physical and chemical properties that make them both potentially valuable and potentially hazardous to human health and the environment. For more information, please visit <https://itrcweb.org/resource/reuse-of-solid-mining-waste/>.

Technology Innovation News Survey Corner. The Technology Innovation News Survey contains market/commercialization information; reports on demonstrations, feasibility studies and research; and other news relevant to the hazardous waste community interested in technology development. Recent issues, complete archives, and subscription information is available at <https://clu-in.org/products/tins/>. The following resources were included in recent issues:

- Electrical Resistivity Tomography Monitoring of In Situ Soil Flushing at the Hanford 100-K East Area: 100KE Soil Flushing Monitoring
- Maximum Contaminant Level Goals (MCLGs) for Three Individual Per- and Polyfluoroalkyl Substances (PFAS) and a Mixture of Four PFAS
- Degradation of Poly- and Perfluoroalkyl Substances (PFAS) in Water via High Power, Energy-Efficient Electron Beam Accelerator
- EPA's PFAS Strategic Roadmap: Three Years of Progress
- Demonstrating Technologies for Treating Soil and Groundwater Impacted by 1,4-Dioxane

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 2 resources, events, projects and news items were added to EUGRIS in February. These can be viewed at <http://www.eugris.info/whatsnew.asp>. Then select the appropriate month and year for the updates in which you are interested.

> Conferences and Symposia

EPA Superfund Site Remediation Program: Radiation Risk Assessment Calculator Training - Phoenix, AZ, March 9, 2025. This full-day advanced course will be delivered at the upcoming 2025 Waste Management Symposia. It focuses on

specific technical and regulatory issues that site managers (e.g., RPMs, OSCs) and technical staff (e.g., risk assessors, health physicists) address when managing sites under the U.S. Environmental Protection Agency's Superfund remedial program. This includes conducting a risk assessment for radioactive contaminants. Class instructors are Stuart Walker of U.S. EPA and Fred Dolislager of Oak Ridge National Laboratory. For more information on this Workshop and to register,

<https://www.wmsym.org/conference-information/wm2025-conference/>.

US EPA and RAIS Screening Level Calculator Training for Chemical and Radionuclide Risk Analysis - Oak Ridge, TN, March 25-27, 2025. The organizers of this training have been publishing online "risk" (cancer risk and noncancer hazard index) calculators since 1996. This training will primarily provide the participant with operational knowledge of key EPA and RAIS calculators. Additionally, the training and exercises will delve into the ability of the calculators to address site-specific exposures, unique toxicity assessments, and complex risk characterizations. In addition to classroom activities, tours are given of the Spallation Neutron Source facility, the High Flux Isotope Reactor, Frontier (ORNL's exascale supercomputer), and the Historic Graphite Reactor from the Manhattan Project.

For more information, please visit <https://rais.ornl.gov/home/spring2025.html>.

2025 ITRC Annual Meeting - 30th Anniversary, April 7-10, 2025, Kansas City, MO. Come celebrate ITRC's 30th Anniversary! ITRC is hosting their 2025 Annual Meeting in Kansas City, Missouri. Join the ITRC Project Teams for working sessions, participate in their welcome reception and plenary sessions, and network with the entire ITRC community and partners. To learn more and register, please visit

<https://itrcweb.org/2025-annual-meeting/>.

AquaConSoil 2025, June 16-20, 2025, Liege, Belgium. AquaConSoil 2025 offers a series of technical sessions, with each full conference day beginning with a plenary session featuring expert keynotes and panel discussions tailored to scientific and engineering professionals. Beyond these sessions, participants can enjoy field-specific excursions, advanced courses, and an exhibition with around 30 industry-focused exhibitors. For more information, please visit <https://aquaconsoil.com/aquaconsoil2025/>

2025 Environmental Measurement Symposium, August 4-8, 2025, St Louis, MO. Organized by The NELAC Institute (TNI), the 2025 Environmental Measurement Symposium is a combined meeting of the National Environmental Monitoring Conference (NEMC) and the Forum on Environmental Accreditation. It is the largest conference focused on environmental measurements in North America, and this year is planned as an in-person event for the week of August 4, 2025 in St. Louis, MO. This year's Symposium theme is Building a Quality Culture as the Foundation for Reliable Data. For more information, please visit <https://www.envirosymposium.group/>.

2025 National Brownfields Training Conference, August 5-8, 2025, Chicago, IL. The National Brownfields Training Conference is the largest event in the nation focused on environmental revitalization and economic redevelopment. Held every two years, the National Brownfields Conference attracts over 2,000 stakeholders in brownfields redevelopment and cleanup to share knowledge about sustainable reuse and celebrate the EPA brownfields program's success. For more information, please visit <https://qobrownfields.org/>.

Call for Abstracts for RemTech Europe 2025, September 15-19, 2025. REMTEC has opened a Call for Abstracts for its upcoming international conference on land and water remediation, environmental sustainability, and emerging technologies. The event will take place from September 15 to 19, 2025, with both in person and online participation options. Abstracts should address topics such as soil health, PFAS contamination, sustainable remediation, climate change, digital innovation, and waste

management. The first submission deadline is March 31, 2025. For more information, please visit <https://remtechexpo.com/remtech-europe/>.

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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