



TechDirect, February 1, 2025

Welcome to TechDirect! Since the January 1 message, TechDirect gained 96 new subscribers for a total of 44,120. 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: 1,4-Dioxane: Science, Characterization & Analysis, and Remediation Training - Thursday, February 6, 2025, 1:00PM-3:15PM EST (18:00-20:15 GMT). In 2020, ITRC's 1,4-Dioxane team created multiple tools and documents that provide information to assist all interested stakeholders in understanding this contaminant and for making informed, educated decisions. Since the 1950s, 1,4-Dioxane has seen widespread use as a solvent stabilizer. The use of solvents through the 1980s suggests its presence at thousands of solvent sites in the US; however, it is not always a standard compound in typical analytical suites for hazardous waste sites, so it previously was overlooked. The U.S. EPA has classified 1,4-Dioxane as "likely to be carcinogenic to humans." Some states have devised health standards or regulatory guidelines for drinking water and groundwater standards; these are often sub-part per billion values. These low standards present challenges for analysis, characterization, and remediation of 1,4-Dioxane. The 1,4-Dioxane: Science, Characterization & Analysis, and Remediation training is a series of six (6) modules. The six individual modules will be presented together live, and then archived on the ITRC 1,4-Dioxane training webpage for on demand listening. For more information and to register, see <https://www.itrcweb.org> OR <https://www.clu-in.org/live>.

ITRC: Reuse of Solid Mining Waste - Thursday, February 13, 2025, 1:00PM-3:00PM EST (18:00-20:00 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 different types of mining sites and potential wastes for reuse provide a significant challenge but also an opportunity for innovation. The ITRC Reuse of Solid Mining Waste training and guidance document (document available January

2025) 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>.

ITRC: PFAS Beyond the Basics: Sampling, Analysis, Surface Water, & Air Occurrence Training - Tuesday, February 25, 2025, 1:00PM-3:00PM EST (18:00-20:00 GMT).

This ITRC training course will build upon PFAS sampling and analysis information presented in the PFAS 101 CLU-IN training. The ITRC PFAS Beyond the Basics class provides in-depth information on preparing for and implementing sampling events. Some detailed information and case studies are presented for sampling surface water and PFAS-containing foam that can form and aggregate at the surface water-air interface. The training includes information about PFAS analysis and discusses alternative qualitative analytical techniques. The occurrence of PFAS in air information from the literature for outdoor air, indoor air, settled dust and precipitation is discussed. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

ITRC: Vapor Intrusion Mitigation (VIM-1) - A Two Part Series Training - Thursday, February 27, 2025, 1:00PM-3:00PM EST (18:00-20:00 GMT) and 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>.

> New Documents and Web Resources

Solicitation: Environmental Security Technology Certification Program (ESTCP)

FY 2026. The Department of Defense's Environmental Security Technology Certification Program (ESTCP) released a solicitation on January 7, 2025, requesting proposals for demonstrations of environmental and installation energy technologies. The due date for all pre-proposals is due March 6, 2025. For more information, please visit <https://serdp-estcp.mil/workwithus>.

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:

- Aerobic Biodegradation of Chlorinated Volatile Organic Compounds and

- 1,4-Dioxane in Groundwater
- New USGS Data-Driven Tools Can Aid Restoration of Mine Lands Across America

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 January. 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. The US EPA Superfund Radiation Risk Assessment is a full-day advanced course will be delivered at the upcoming 2025 Waste Management Symposia. This course 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 US 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 and to register, <https://www.wmsym.org/conference-information/wm2025-conference/>.

2025 Federal Environmental Symposium, March 31 - April 2, 2025, Bethesda, MD. The Symposium, hosted by the National Institutes of Health (NIH), will be both an in-person and virtual gathering of federal agencies to provide existing and relevant environmental information to Federal representatives. This event was first offered in 2002 and hosted at the NIH facility. The main purpose is to encourage partnerships, sharing of information, and best practices amongst Federal facilities. NIH will once again host the symposium virtually via MS Teams videoconferencing platform. This year's theme for the Symposium "Supporting the Mission Through Environmental Compliance" focuses on the sharing of best practices, success stories, partnerships, and challenges and achievements of the federal practitioner community as they apply to your Agency's mission. The symposium is also expected to bring together federal agencies and their partnering organizations to provide existing and relevant environmental policy perspectives. To learn more and register, please visit <https://www.fedcenter.gov/calendar/conferences/symposium2025/>.

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/>.

Call for Abstracts! 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. The NEMC Steering Committee is inviting abstracts for oral or poster

presentations which are due February 7, 2025. To submit an idea for the conference, please visit <https://www.envirosymposium.group/>.

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. Remember, you may subscribe, unsubscribe or change your subscription address at <https://clu-in.org/techdirect> at any time night or day.

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