U.S. ENVIRONMENTAL PROTECTION AGENCY

TechDirect, October 1, 2024

Welcome to TechDirect! Since the September 1 message, TechDirect gained 45 new subscribers for a total of 44,003. 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 Vapor Intrusion Mitigation (VIM-1) - A Two Part Series Training (Part 2) - October 3, 2024, 1:00PM-3:00PM EDT (17:00-19:00 GMT). 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. This training series provides an overview of vapor intrusion mitigation and presents information from the ITRC fact sheets, technology information sheets, and checklists (VIM-1, 2021). For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

ITRC: Optimizing Injection Strategies and In situ Remediation Performance Training - October 8, 2024, 1:00PM-3:15PM EDT (17:00-19:15 GMT). In an effort to overcome the challenges and improve the effectiveness of in situ remediation using injected amendments, ITRC developed the guidance: Optimizing Injection Strategies and In Situ Remediation Performance (OIS-ISRP-1). The guidance and this associated training course identify challenges that may impede or limit remedy effectiveness and discuss the potential optimization strategies, and specific actions that can be pursued, to improve the performance of in situ remediation. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

ITRC: Managed Aquifer Recharge (MAR) Training - October 17, 2024, 1:00PM-3:00PM EDT (17:00-19:00 GMT). The ITRC Managed Aquifer Recharge (MAR-1) 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. It is important to understand that MAR is an area of active research and expanding practical applications, and that this management process is continuing to evolve with time. 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 - October 22, 2024, 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. Such an approach can be conducive to improved allocation of regulatory response resources and provide a foundation for communicating potential risk to stakeholders. The 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.

Federal Facilities Online Academy: RCRA/CERCLA Integration - October 24, 2024, 1:00PM-3:00PM EDT (17:00-19:00 GMT). RCRA and CERCLA Integration at Federal Facilities is a two-hour webinar course that will provide an overview of how the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) can be integrated at Federal Facilities through use of Federal Facility Agreements, regulator coordination, and lead regulator approach. The instructional methodology for this course includes lecture, case studies, and quizzes. The target audience for this course is federal, state, and tribal representatives who work on Federal Facility cleanups. For more information and to register, see https://www.clu-in.org/live.

Virtual Technology Fair: Lead (Pb) Detection and Treatment for Water - October 28, 2024, 2:30PM-4:00PM EDT (18:30-20:00 GMT). The NIEHS Superfund Research Program (SRP) presents a "Virtual Technology Fair" featuring Small Business Innovative Research (SBIR) grant recipients developing innovative solutions for lead (and other metals) in water. Speakers will give a "pitch", showcasing the work underway and its value-added to disrupt the market. We encourage participation by and questions from potential end-users, customers, and other stakeholders to accelerate technology transfer of these promising approaches. For more information and to register, see https://www.clu-in.org/live.

FRTR Fall 2024 General Meeting: Source Differentiation and Risk Assessments for Sites Impacted by PFAS - October 29, 2024, 8:00AM-5:30PM EDT (12:00-21:30 GMT). The FRTR 2024 Fall General Meeting provides an opportunity to share the latest developments in PFAS source differentiation and identification techniques applied to site remediation, as well as an update on advances in human health and ecological risk assessment. The meeting will highlight site-specific case studies where source differentiation technologies helped in identifying sites requiring further investigation and remediation. Emerging contaminants and issues have presented new challenges for risk assessment of both ecological and human health concerns. Therefore, meeting presentations will focus on new technical approaches to conduct site-specific risk assessments for PFAS when toxicological data, enforceable standards and similar information are limited. For more information and to register, see https://www.clu-in.org/live.

> New Documents and Web Resources

Research Brief 358: Passive Samplers Track PFAS, Show Contamination Reduction in Cape Fear River. Common low-cost samplers may be an effective technology for tracking PFAS levels in aquatic environments, according to a study funded by the NIEHS Superfund Research Program (SRP). The research team found that frequently used passive sampling devices, which collect samples over time, can monitor how PFAS mitigation strategies affect PFAS levels along a stretch of the Cape Fear River in North Carolina. Erin Baker, Ph.D., a project leader at the Texas A&M SRP Center and part of the analytical core at the North Carolina State University SRP Center, led the team. For more information, please visit https://tools.niehs.nih.gov/srp/researchbriefs/view.cfm?Brief_ID=358

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://www.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
- EPA and U.S. Army Announce Joint Sampling Project to Identify PFAS Contamination Near Army Installations
- Results of 2018-19 Water-Quality and Hydraulic Characterization of Aquifer Intervals Using Packer Tests and Preliminary Geophysical-Log Correlations for Selected Boreholes at and Near the Former Naval Air Warfare Center Warminster, Bucks County, Pennsylvania

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 4 resources, events, projects and news items were added to EUGRIS in September. 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

RemTEC & Emerging Contaminants Summit - Westminster, CO, October 15-17, 2024. This Summit convenes academic, consulting, regulatory, stakeholder, and other thought leaders to address today's most pressing environmental science, remediation technology, and emerging contaminants challenges through collaborative action. The Summit will showcase cutting edge research and practice case studies. This year's event will be co-chaired by Gregory Gervais, Director of EPA's Federal Facilities Restoration and Reuse Office. The technical program features other EPA speakers and session chairs including Jim Cummings (Technology Assessment Branch, OSRTI), Marc Mills (EPA Office of Research and Development), Mary Cooke (OLEM/FFRRO), and others. For more information, please visit https://www.remediation-technology.com/.

Design and Construction Issues at Hazardous Waste Sites (DCHWS West), November 6-8, 2024, 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-2024-dchws

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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