



TechDirect, November 1, 2021

Welcome to TechDirect! Since the October 1 message, TechDirect gained 45 new subscribers for a total of 40,026. 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 Integrated DNAPL Site Characterization - November 4, 2021, 1:00PM-3:15PM EDT (17:00-19:15 GMT). The Integrated DNAPL Site Characterization Team has synthesized the knowledge about dense nonaqueous phase liquid (DNAPL) site characterization and remediation acquired over the past several decades, and has integrated that information into a new document, Integrated DNAPL Site Characterization and Tools Selection (ISC-1, 2015). This guidance is a resource to inform regulators, responsible parties, other problem holders, consultants, community stakeholders, and other interested parties of the critical concepts related to characterization approaches and tools for collecting subsurface data at DNAPL sites. After this associated training, participants will be able to use the guidance to develop and support an integrated approach to DNAPL site characterization, including: identify what site conditions must be considered when developing an informative DNAPL conceptual site model (CSM); define an objectives-based DNAPL characterization strategy; understand what tools and resources are available to improve the identification, collection, and evaluation of appropriate site characterization data; and navigate the DNAPL characterization tools table and select appropriate technologies to fill site-specific data gaps.

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

Federal Remediation Technologies Roundtable 2021 Fall Meeting, November 8 and 15, 2021. The Fall 2021 Meeting of the Federal Remediation Technologies Roundtable (FRTR) will be held as two webinar sessions at 1 p.m. EST on November 8 and November 15, 2021. As always, FRTR meetings are open to the public. FRTR's objectives for this meeting are to share guidance, tools, and resources available to build resilience into cleanup programs and to discuss methods used to evaluate vulnerabilities, identify options, and implement adaptation measures. For more information and to register, please visit <https://clu-in.org/live/>.

ITRC TPH Risk Evaluation at Petroleum-Contaminated Sites - November 18, 1:00PM-3:15PM EST (18:00-20:15 GMT). The basis for this training course is the ITRC

guidance: TPH Risk Evaluation at Petroleum-Contaminated Sites (TPHRisk-1, 2018). The guidance builds on long-standing and current research and experience, and presents the current science for evaluating TPH risk at petroleum-contaminated sites. As a participant in this training you should learn to: recognize the ITRC document as a go-to resource for evaluating TPH risk at petroleum-contaminated sites, recognize how TPH-impacted media interacts with the environment and changes over time, select appropriate analytic method(s) to match site objectives, and apply the decision framework to determine when a site-specific target level may be more appropriate than a generic screening level for TPH. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

ITRC Strategies for Preventing and Managing Harmful Cyanobacteria Blooms - December 2, 2021, 1:00PM-3:15PM EST (18:00-20:15 GMT). Cyanobacteria are microscopic, photosynthetic organisms that occur naturally in all aquatic systems but most often in freshwater systems. Under certain conditions, cyanobacteria can multiply and become very abundant, discoloring the water throughout a water body or accumulating at the surface. These occurrences are known as blooms. Cyanobacteria may produce potent toxins (cyanotoxins) that pose a threat to human health. They can also harm wildlife and domestic animals, aquatic ecosystems, and local economies by disrupting drinking water systems and source waters, recreational uses, commercial and recreational fishing, and property values. It is likely that continued population growth, land use change, increases in nutrient inputs to our waterways, and the warming climate will favor proliferation of these problematic species. Providing a range of practical approaches to minimize these blooms and their likely societal and wildlife effects is critical to our future vitality, health, and economic prosperity. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

Superfund Quality and Sample Support (QSS) Pre-Solicitation Webinar - December 8, 2021, 1:00PM-3:15PM EST (18:00-20:15 GMT). The webinar will provide a technical overview of the procurement and respond to industry questions regarding the Performance Work Statement (PWS) and upcoming Request for Proposal (RFP). General contract information will also be presented. The QSS contractor shall perform Contract Laboratory Program (CLP) sample scheduling and tracking, analytical chemistry data review/assessment, invoice preparation, and reporting in a production environment; administrative, cost recovery, and analytical services support; quality assurance technical support; and information systems operations, maintenance, development, and security. The NAICS code for the QSS procurement is 541611 - Administrative Management and General Management Consulting Services. Please submit QSS PWS and RFP questions to EPA Contracting Officer Ross Miller (miller.ross@epa.gov) and Contract Specialist Eric Langett (langett.eric@epa.gov). For more information about the Superfund CLP, please visit www.epa.gov/clp. For more information and to register, see <https://clu-in.org/conf/tio/QSS-PreSol/>.

> New Documents and Web Resources

Review of Peer-Reviewed Documents on Treatment Technologies Used at Mining Waste Sites (EPA 542-R-20-002). Case studies examining treatment technologies used for remediating mining-influenced water (MIW) and mining wastes have been conducted at many hard rock mining sites and range in type from bench studies to full-scale field studies. The research in this report was conducted to capture the capabilities, efficiencies, technological and site-specific requirements, and lessons learned for technologies and methods used. To work toward meeting these goals, EPA conducted a literature search in order to accumulate, evaluate, and consolidate case studies that documented active or passive treatment systems or methods being used (or previously used) at active and inactive hard rock mining sites for remediating contaminants from various mining wastes and MIW.

To view or download, please visit <https://semspub.epa.gov/src/document/HQ/100002899>.

Community Guides to Cleanup Technologies. The Community Guide series (formerly Citizen's Guides) is a set of two-page fact sheets describing cleanup methods used at Superfund and other hazardous waste cleanup sites. Each guide answers six questions about the method: 1) What is it? 2) How does it work? 3) How long will it take? 4) Is it safe? 5) How might it affect me? 6) Why use it? Each guide also contains information about how many Superfund sites have used the technology and a case study description. The series was originally released in 2005, then updated with new information in 2012, 2016, and 2021. The content is maintained by EPA's Office of Superfund Remediation and Technology Innovation. For more information and to view the Guides, please visit <https://clu-in.org/cguides/>.

Sustainable Management Practices for Management of Land Contamination (CL:AIRE 2021). SuRF-UK defines Sustainable Management Practices (SMPs) as relatively simple, common sense actions that can be implemented at any stage in a land contamination management project to improve its environmental, social and/or economic performance. This document describes a simple process to encourage sustainable thinking, decision-making and action across all land contamination management activities by using SMPs. To view or download, please visit

<https://www.claire.co.uk/projects-and-initiatives/surf-uk/21-executing-sustainable-remediation/84-sustainable-management-practices>.

Good Practice for Risk Assessment for Coal Mine Gas Emissions (CL:AIRE 2021). This document is a collation of current understanding of coal mine gas risks and seeks to assist in the formulation of appropriately robust mine gas risk assessments in the UK. It provides a decision framework and presents those factors an assessor would be expected to have considered if delivering standard good practice. The intended audience of this document is those involved in commissioning and undertaking mine gas risk assessments to support proposed development, and local authority officers involved in regulating development management through the planning or building control regimes. To view or download, please visit <https://www.claire.co.uk/home/news/1561-new-cl-aire-publication>.

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:

- PFAS Phase I Pilot-Scale Treatment Study Final Report
- Utilizing the Plant Microbiome and Bioaugmentation to Degrade 1,4-Dioxane and Co-Contaminants
- Quantification of In Situ Chemical Reductive Defluorination (ISCRD) of Perfluoroalkyl Acids in Groundwater Impacted by AFFFs
- Guidance for Using Compound Specific Isotope Analysis (CSIA) for the Assessment of Transformation of Nitroaromatic Explosives and RDX
- A Practitioners Guide to The Evolution of High Resolution Site Characterization
- Development of a Decision Support Tool for Vadose Zone Remediation of Volatile Contaminants
- Systems and Processes for Recovery of High-Grade Rare Earth Concentrate from Acid Mine Drainage

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 October 2021. 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

Society of Military Engineers (SAME) Design and Construction of Hazardous Waste Sites (DCHWS) Winter 2022 Symposium - Denver, CO, Postponed to January 31, 2022 - February 2, 2022. 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 on rescheduling of this event, please visit <https://sites.google.com/samephiladelphia.org/dchws/west-symposium/winter-2022-dchws>

2021 National Brownfields Training Conference - Oklahoma City, OK, POSTPONED to 2022. 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. Whether you're a newcomer or a seasoned professional, Brownfields 2021 offers something for you! For more information on rescheduling of this event, please visit <https://brownfields2021.org>

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 (703) 603-9924 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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