



TechDirect, July 1, 2022

Welcome to TechDirect! Since the June 1 message, TechDirect gained 75 new subscribers for a total of 40,285. 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

Federal Facilities Online Academy: RCRA/CERCLA Integration - July 13, 2022, 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. By taking this course, participants will achieve the following objectives: Learn about Federal Facility Agreements and how they identify RCRA and CERCLA roles and responsibilities; Explore relevant memos and policies addressing RCRA and CERCLA coordination; and, Become familiar with some RCRA policies that apply to CERCLA wastes. For more information and to register please visit <https://clu-in.org/live/>.

From Superfund to Super Fun - The Benefits of Recreational Superfund Site Reuse - July 19, 2022, 2:00PM-3:30PM EDT (18:00-19:30 GMT). Consideration of future use is an integral part of the EPA's cleanup programs. Superfund site restoration and reuse can revitalize local economies and communities with recreational opportunities. This webinar will showcase the benefits of recreational reuses at Superfund sites across the country. For more information and to register please visit <https://clu-in.org/live/>.

It's All Connected - Risk Assessment through Selected Remedy - July 20, 2022, 1:00PM-4:00PM EDT (17:00-20:00 GMT). This webinar will look at various steps of the remedy selection process, from the baseline MEC risk assessment that is conducted at the end of the Remedial Investigation (RI) through to describing the Selected Remedy in the Record of Decision (ROD). The topics presented will address creating risk scenarios for the Risk Management Methodology (RMM), and show how these can be

used to support the development of Remedial Action Objectives (RAOs) during the Feasibility Study (FS). Additional topics will cover the development and evaluation of remedial alternatives in the FS that achieve the RAO, and outline some best practices for describing the Selected Remedy and cleanup goals in the ROD. 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. Ideally, students should have a basic understanding of RCRA and CERCLA. This course is part of the Federal Facilities Academy training program. Please consider registering for other Federal Facility Academy courses and obtain a certificate upon completion of the entire Federal Facility Academy series (12 courses total). For more information and to register please visit <https://clu-in.org/live/>.

> New Documents and Web Resources

Climate Adaptation Profiles: Solvents Recovery Services of New England. EPA is developing a series of site-specific profiles to illustrate a range of processes and tools for evaluating site vulnerabilities to future climate scenarios and adapting to the projected scenarios, thereby assuring site cleanup remedies remain protective of human health and the environment. The second profile release in this series describes adaptation measures taken at the 42-acre Solvents Recovery Service of New England, Inc. Superfund site in Southington, Connecticut. Remedial actions currently involve maintaining a multilayer cap above contaminated soil, wetland soil and river sediment and continuing extraction of contaminated groundwater for ex situ treatment. The site is vulnerable to flooding and associated soil erosion due to its location along the Quinnipiac River. Climate adaptation measures have included constructing an infiltration gallery to manage stormwater, reestablishing native vegetation in wetlands and upland areas, and encasing groundwater extraction controls in water-resistant housings. An onsite renewable energy system above the cap powers the site's groundwater extraction pumps and a supporting building, which produces a climate change adaptation and mitigation synergy that provides energy resilience and diversification while minimizing emission of greenhouse gas. To view or download, please visit <https://www.epa.gov/superfund/climate-adaptation-profile-SRSNE>.

Climate Adaptation Profiles: American Cyanamid Co. The third release in EPA's series of climate adaptation profiles describes measures taken at the 435-acre American Cyanamid Superfund site in Bridgewater, New Jersey. Remedial actions currently involve operating a groundwater extraction and treatment system, designing multiple soil or waste capping systems, and planning excavation of other waste to be treated offsite. The site is extremely vulnerable to flooding; most of the site is located with a 100-year floodplain of the Raritan River. The site also experiences periodic flooding due to tropical storms associated with hurricanes strikes along the U.S. East Coast. Climate adaptation measures have included constructing a groundwater treatment plant at a location outside the 500-year floodplain, installing submersible pumps in bedrock wells to maintain hydraulic control during flood-related power outages, and designing the capping systems to withstand a 500-year flood event. The remedies' resilience to flooding was reassessed in 2021 after the site experienced a tropical storm associated with Hurricane Ida, and the results indicated no major physical damage, groundwater treatment interruption, or surficial release of contaminants had occurred. To view or download, please visit <https://www.epa.gov/superfund/climate-adaptation-profile-american-cyanamid>.

Superfund Research Brief 330: Study Sheds Light on Breakdown Products of PCBs in the Environment. NIEHS Superfund Research Program (SRP) grantees

discovered toxic breakdown products of polychlorinated biphenyls (PCBs) in contaminated sediments at proportionally higher levels than found in commercial PCB mixtures. According to the team, these findings point to environmental processes, such as metabolism by animals, plants, or bacteria, in generating the harmful chemicals. PCBs are persistent environmental pollutants classified as human carcinogens. From 1930 to 1979, PCBs were manufactured as mixtures of individual PCB compounds called Aroclors. Although PCBs were banned in 1979, they still persist in air, water, soil, and sediments, and are still produced as byproducts of some industrial processes. To read the document, please visit https://tools.niehs.nih.gov/srp/researchbriefs/view.cfm?Brief_ID=330

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:

- Environmental Restoration, Installation Shaw Air Force Base
- Santa Susana Field Laboratory Groundwater Pilot Study
- Development of Slow Release Compounds for the Aerobic Cometabolic Treatment of Complex Mixtures of COC Released from Low Permeability Zones
- Evaluation of Electrical Resistivity Tomography to Monitor the Transport of Past Releases Beneath Tank Farms
- Laboratory Evaluation to Increase Effectiveness of Field-Scale Soil Flushing in the Hanford 100 Areas
- First Quarter 2021 Groundwater Monitoring Report Nustar Andover Quail Crossing
- Stable Carbon Isotopes for Tracing In Situ RDX Remediation
- Surface 3D Electrical Resistivity Tomography Inversion of 2005 BC Cribs and Trenches Datasets
- Demonstration and Validation of New Non-Invasive Technology to Assess Contaminant Storage in Low Permeability Media and Rock Matrix

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. Several resources, events, projects and news items were added to EUGRIS in June 2022. 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. The following resource was posted on EUGRIS:

> Conferences and Symposia

2022 Environmental Measurement Symposium - Crystal City, VA, August 1-5, 2022. The Environmental Measurement Symposium (EMS) is the combined meeting of the National Environmental Measurement Conference (NEMC) and the Forum on Environmental Accreditation. The theme of the 2022 conference is Where Do We Go From Here? The Conference will include: a Technical Program featuring oral and poster presentations, a special half-day general session with a keynote speaker focused on the conference theme and updates from EPA program offices, special keynote presentations on the conference theme, and luncheon presentations; an Exhibit Program showcasing the latest innovations in environmental monitoring; and an Innovative New Technology Showcase. For more information, please visit <https://www.envirosymposium.group/index.php>

2022 National Brownfields Training Conference - Oklahoma City, OK, August

16-19, 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, please visit <https://brownfields2022.org/>

27th National Tanks Conference & Exposition - Pittsburgh, PA, September 13-15, 2022. NEIWPCC is co-sponsoring the conference in partnership with U.S. EPA's Office of Underground Storage Tanks (OUST) and the Association of State and Territorial Solid Waste Management Officials (ASTSWMO). Anticipated topics of the plenary sessions and posters include innovative cleanup technologies and approaches to address leaking underground storage tanks (LUSTs), such as green remediation and high resolution site characterization tools; development of LUST conceptual site models addressing emerging contaminants; and alternative fuels stored in underground storage tanks. For more information, please visit <https://neiwpc.org/our-programs/underground-storage-tanks/national-tanks-conference/>

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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