

Message #10: December, 1997

This is the tenth TechDirect message. Since the November 1 message, TechDirect has 157 new subscribers. We are coming close to cracking the 4000 subscriber mark. Hazardous waste cleanup professionals from 36 countries have signed on to get TechDirect monthly.

To those of you new to us, welcome! Every month we hope to provide you with information on remediation and site characterization technology publications that is current and relevant to your jobs. If you missed the earlier TechDirect messages, you may see the documents previously highlighted at <http://clu-in.org>. Send your peers to <http://clu-in.org> to subscribe to TechDirect. Previous messages are archived on CLU-IN.

Now Available:

Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites (EPA Directive #9200.4-17). This directive clarifies the U.S. EPA's policy regarding the use of Monitored Natural Attenuation for the remediation of contaminated soil and groundwater at sites regulated under the Office of Solid Waste and Emergency Response (OSWER) programs. This Directive is being issued as Interim Final and may be used immediately [November 1997, 34 pages].

Download from <http://www.epa.gov/swrust1/directiv/d9200417.htm>. To order paper copies, contact the U.S. EPA's RCRA, Superfund, OUST & EPCRA Hotline at (800) 424-9346 or (703) 412-9810 Monday-Friday 9am-6pm EST.

Remediation Technologies Screening Matrix and Reference Guide, Third Edition. The Federal Remediation Technologies Roundtable, in a cooperative effort led by the U.S. Army Environmental Center, has updated this comprehensive guide to cleanup technologies. Its reference list of technology information sources includes more than 1200 reports - many with links to electronic copies [October 1997]. Available online at www.frt.gov.

The Brownfields Economic Redevelopment Initiative: Proposal Guidelines for Brownfields Assessment Demonstration Pilots (EPA 500-F-97-156). This publication, produced by the EPA Office of Solid Waste and Emergency Response, outlines the requirements for submitting new applications for the 1998 assessment pilots under the Brownfields program [October 1997, 18 pages]. EPA will accept applications on a rolling submissions schedule. Deadline

dates are December 15, 1997 and March 23, 1998. Hard copies, contact (703) 412-9810 or (800) 424-9346. Download from

<http://www.epa.gov/swerosps/bf/applicat.htm>.

RCRA: Reducing Risk from Waste (EPA 530-K-97-004). This report, published by the EPA Office of Solid Waste, is intended to provide an overall perspective on how RCRA works, including the roles of EPA, states, tribes, the public, and the regulated community. It focuses primarily on RCRA Subtitle C [September 1997, 44 pages]. Download from <http://www.epa.gov/epaoswer/general/risk/risk.htm>. Hard copies available from (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

Measuring Recycling: A Guide for State and Local Governments (EPA 530-R-97-011). This report, published by the EPA Office of Solid Waste, is designed to help state and local agencies measure recycling efforts. It contains instructions, definitions, case studies, tips, forms, and worksheets to help calculate a municipal solid waste recycling rate [September 1997, 150 pages]. Download from <http://www.epa.gov/> in the near future. Hard copies available from (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

Technology Evaluation

Verification of Decision Support Software for Site Characterization. The EPA Environmental Technology Verification (ETV) program pilot for site characterization and monitoring technologies will be verifying environmental decision support software packages that focus on site characterization, plume characterization, and/or data worth. Jointly sponsored by the U.S. DOE Environmental Management Program, the verification testing will be coordinated by Oak Ridge National Laboratory's (ORNL) Chemical and Analytical Sciences Division. ORNL is serving as the verification organization on a number of ETV verification projects. A developers kick-off meeting will be held February 18 in San Francisco. For more information, contact Amy Dindal (423-574-4863; email dindalab@ornl.gov or Roger Jenkins (423-576-8594; email jenkinsra@ornl.gov).

Symposium

Biological and Chemical Reduction of Perchlorate and Chlorate. The US EPA National Risk Management Research Laboratory will host a one-day symposium held in Cincinnati on Friday, December 5, 1997, from 8:30 am to 6:00 pm on the biological and chemical reduction of perchlorate and chlorate. This topic has gained notoriety since high levels of perchlorate were

discovered in ground and surface waters in regions of California, Nevada, and Utah. The symposium will feature : Professor James Espenson (Iowa State Chem Dept) will discuss the kinetic barriers to perchlorate reduction and some of his recent work with metal cations that can abstract oxygen atoms from perchlorate, eventually reducing it to chloride; Professor Bruce Logan (Penn State Env Engr Dept) will discuss bacterial reductases and his research on microbes that will consume chlorate and perchlorate; Jim Hurley (USAF, Tyndall AFB) will discuss the use of *Wolinella succinogenes* to reduce perchlorate in bulk reactors for the treatment of waste effluents that contain perchlorate; Joel Tenney (Eka Chemical, Georgia, American division of Akzo Nobel) will discuss the formation of chlorate and chlorite in treatment plants that use chlorine dioxide and how they may be removed; C.G. van Ginkel (Akzo Nobel, Netherlands) will discuss how Proteobacteria can reduce perchlorate and recent research there on isolating the reductase responsible for this behavior. Admission is free, but all attendees must have pre-registered to be admitted. Contact Edward Urbansky by email at urbansky.edward@epamail.epa.gov.

Field Portable Site Assessment Technology

The Technology Innovation Office is interested in identifying and documenting commercial use of field portable site assessment technologies by hazardous waste professionals. In particular, we are interested in identifying innovative analytical or geophysical approaches for detection and delineation of Dense Non-Aqueous Phase Liquids (DNAPLs) in soil and groundwater. If anyone has any leads or general knowledge of sites where DNAPLs have been detected and mapped using field portable technologies, please contact Carl Ma of TIO at (703) 603-9903 or ma.carl@epamail.epa.gov.

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If you have any questions or suggestions, contact Jeff Heimerman at heimerman.jeff@epamail.epa.gov.

<http://clu-in.org/techdrct/td1297.htm>
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