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EPA REACH IT: Innovative Technology Information at Your Fingertips

EPA REACH IT

2003 Update

REmediation And CHaracterization Innovative Technologies

What is EPA REACH IT?

Do you need reliable information about remediation and characterization technologies? Would you like to know about sites at which these technologies are being implemented? Or, as a technology vendor, are you looking for a cost-effective way to market your innovative treatment or characterization technologies to key decision makers? The *new* EPA REACH IT can help, with more vendors providing the technologies you need, updated information on technology applications at Superfund sites, an easier way to get your technology into EPA REACH IT, and a faster system.

REmediation And CHaracterization Innovation Technologies (EPA REACH IT), sponsored by the U.S. Environmental Protection Agency (EPA)'s Technology Innovation Office, is a system that uses the Internet to search, view, download and print information about innovative remediation and characterization technologies and their applications. EPA REACH IT is a free service to both technology providers and technology users.

It combines information submitted by vendors of remediation and characterization technologies with information from EPA, the U.S. Department of Defense (DoD), the U.S. Department of Energy (DOE), and state project managers about sites at which innovative technologies are being deployed. These sources together provide you with up-to-date information, about:

- technologies you can use to characterize or remediate a site,
- sites at which technologies are being used, and
- service providers that offer them.

EPA REACH IT includes a fully searchable database that lets users identify sites with characterization and remediation challenges that closely match their own.

What's New in EPA REACH IT?

- Over 100 new technologies were added in the first half of 2003. Many of these new technologies address difficult remediation problems, including chlorinated solvents, non-aqueous phase liquids (NAPL), fractured rock, and low-permeability clays. Page 3 lists these new technologies, which include:

New Treatment

- In situ thermal treatment (12 technologies)
- In situ chemical oxidation (13 technologies)
- Phytoremediation (7 technologies)
- In situ flushing (7 technologies)
- Bioremediation (11 technologies)
- Other treatment (7 technologies)

New Characterization and Sampling

- NAPL characterization and sampling (21 technologies)
- Other characterization and sampling (35 technologies)

- New data on Superfund remediation projects, including updates through March of 2003 of 833 technology applications.
- A revised Vendor Information Form (VIF), including a new 1-page short form. By completing the 1-page form included in this Fact Sheet (see insert) you can get your technology onto the EPA REACH IT system fast.
- Upgraded hardware, including faster, more reliable servers to ensure you can get the technology information you need more quickly, and increased bandwidth, to help EPA REACH IT better serve its growing number of users.
- New functions, including:
  - A revised reporting function that lets you download search results in a spreadsheet format, so that you can store and edit your search results, or e-mail them to a colleague.
  - A new display option, so that you can view all of the technology and site information for a vendor with just one click of the mouse.
  - A more prominent display of vendor contact information in search results, so that system users can find contact information for service providers more easily.

www.epareachit.org

Information Available in EPA REACH IT As of June 1, 2003

Remediation Technologies

- 229 technology vendors
- 354 technologies
- 1,832 sites at which remediation technologies are being applied.

Characterization Technologies

- 139 technology vendors
- 195 technologies
- 188 sites at which characterization technologies are being applied.

What Technology and Site Information Can I Find in EPA REACH IT?

Below are some of the kinds of information available on the EPA REACH IT website.

Vendor information:

- Contact information – Name, address, phone number, e-mail address, and web site URL
- Technologies offered – List of technologies offered by vendor
- Links to vendor websites and technical references

Technology information:

- Technology overview – General information about technology and status under federal or state verification programs
- Description of technology – Brief discussion of technical operation of technology, specific circumstances under which it is particularly effective or limited, and technology costs
- Treatment capabilities – Media, contaminants, and contaminant groups technology is addressing, or has potential to address
- Representative sites – Data from EPA, DoD, DOE, and state project managers or vendor-supplied data on specific sites

Site information:

- Site overview – General information about site, and equipment scale and operational status
- Site type/waste source – Type of operations causing contamination at site, and source of waste
- Media – Type of media addressed, for example, soil or groundwater
- Regulation/statute/organization – Governing regulation or organization, for example, Superfund remedial action
- Performance data – Contaminants, concentration ranges, detection limits, and cleanup goals
- Cost data – Estimated cost per unit of waste treated and total cost
- References – Other literature containing information about technology or site, and contact information for site managers and technology vendors

I Am a Technology Vendor. How Can I Add Information About My Technology to EPA REACH IT?

You can list your technology information on EPA REACH IT free of charge by filling out a Vendor Information Form (VIF). EPA REACH IT contains many types of remediation and characterization technologies. Eligible technologies are described on the EPA REACH IT website at www.epareachit.org on the "About EPA REACH IT" page.

The VIF is available:

- By accessing the EPA REACH IT home page at http://www.epareachit.org
- By completing the 1-page form on the insert to this Fact Sheet, and mailing it to the address printed on the back.
- By e-mail, with a request to <EPAREACHIT@ttemi.com>
- In hard copy, with a request from the EPA REACH IT help line at (800) 245-4505

You also can update existing information by accessing your VIF with your password. If you have forgotten your password, call or send an e-mail to the address listed above.

What Are Hot Topics in the Cleanup Community?

We are particularly interested in expanding EPA REACH IT to include more technologies that address dense nonaqueous phase liquids (DNAPL) and sediment; technologies of particular interest are:

- In situ thermal treatment
- In situ chemical oxidation
- In situ flushing
- Permeable reactive barriers
- Phytoremediation
- Pump and treat of groundwater contaminated with perchlorates

What are the Benefits of Being on EPA REACH IT?

- The EPA REACH IT website is widely used by federal agencies, states, consulting engineering firms, responsible parties, technology developers, and the investment community. For example, in May 2003, the website was visited over 130 times per day, with the average visit lasting almost 10 minutes.
- EPA REACH IT is widely advertised at conferences and through direct mailings to an extensive list of potential users.
- EPA REACH IT is free to both providers and users of innovative technologies. You can become part of EPAREACH IT by investing only the time it takes to complete the Vendor Information Form (VIF) for your technology.
- The new system has updated site features and functions, and more technologies, vendors, and sites.

EPA REACH IT

EPA REACH IT is an on-line database sponsored by the U.S. Environmental Protection Agency (EPA) Technology Innovation Office that contains information on site characterization and remediation technologies. The system is free to both service providers who submit information and users. It has become a well-known directory used by federal and state project managers, site owners, brownfields managers, and consultants. EPA REACH IT is widely advertised at conferences and through direct mailings to potential users.

Highlights

- Identifies company capabilities more precisely than a business directory
- Provides details on a service provider's technology and experience
- Contains 354 remediation and 195 site characterization technologies.
- Allows searches by technology, contaminant, media, vendor, and sites

Place Stamp Here

EPA REmediation And CHaracterization Innovative Technologies (EPA REACH IT)

EPA REACH IT System Operator
c/o Tetra Tech EM Inc.
1881 Campus Commons Drive
Suite 200
Reston, VA 20191

By filling out the Vendor Information Form (VIF) on the opposite side of this sheet and mailing it to the address below, you can list your technology information on EPA REACH IT. The VIF can also be completed online by accessing the EPA REACH IT home page at <http://www.epareachit.org>. If you need assistance in completing the form, contact the EPA REACH IT help line at 800-245-4505 or e-mail a question to <EPAREACHIT@ttemi.com>.

EPA REACH IT

REmediation And CHaracterization Innovative Technologies

Vendor and Technology Information

This information must be provided for a technology to be included in EPA REACH IT.

Developer/ Vendor Name:

Contact Information

Contact Name:

Title:

Phone:

Fax Number:

E-mail address:

Address:

City | State/Province | Zip Code | Country

Internet Web Site:

Trade Name:

Technology Type:

Technology Applicability

Contaminants and Contaminant Groups Treated or Monitoring Targets

Types of Media Treated or Monitored

Technology Scale

Select only the largest applicable scale and indicate the number of times this technology has been applied.

- ○ Full Scale
- ○ Pilot Scale
- ○ Bench Scale

Number of times applied:

Description of Technology

In 300 words or less, describe the technology, including [illegible] the technology is based, how stems, the types of equipment or unit operations the system uses, unique and innovative features, whether full-scale system could be batch, continuous, or semicontinuous, and whether the technology is above ground or in situ.

New Technologies Added to EPA REACH IT in 2003*

In Situ Thermal Treatment
Berkeley Environmental Restoration Center (UC Berkeley)
Current Environmental Solutions
Electrochemical Design Associates
KAI Technologies, Inc.
Lawrence Livermore National Laboratory
McMillan-McGee
NOVATERRA Associates
Shaw Environmental and Infrastructure, Inc.
Steam Tech
Terra Therm
TerraVac Corporation
Thermal Remediation Services

In Situ Chemical Oxidation
Biomanagement Services
Geocleanse International, Inc.
ManTech Environmental Corporation
Millennium Science and Engineering Inc.
Montgomery Watson
Patrick Engineering
Resource Control Corporation
Shaw Group
Terra Vac
Terracon
URS Corporation
Venture Enterprises
Versar, Inc.

Phytoremediation
Applied Natural Sciences
Applied Phytogenetics, Inc.
CH2M Hill
Ecolotree
Edenspace, Inc.
Sharp and Associates
Thomas Consultants

In Situ Flushing
Eckenfelder, Inc.
Framatome ANP DE & S
GHEA Associates
Ivey Environmental Services
LFR Levine Fricke
Surbec Environmental
University of Oklahoma

Bioremediation
Billings & Associates, Inc.
Dupont Engineering
Environmental H20, L.L.C.
Forrester Environmental Technologies
Geovation
Matrix Environmental Technologies, Inc.
North Wind Environmental
Shell Global Solutions
University of Waterloo
Water Specialist Technologies LLC
Weston Solutions

Other Treatment Technologies
GHEA Associates – Soil Washing
IEG Technologies Corp. – In-Well Air Stripping
Maxymillian Technologies – Thermal Desorption
Meredith/ Boli and Associates – Dual Phase Extraction
PEAT International – Pyrolysis
Terran Corporation – Lasagna
Water Specialist Technologies LLC – Chemical Treatment

DNAPL Characterization And Sampling Technologies
Dakota Technologies – Chromatography
Digital Magnetotelluric Technologies – Electromagnetic
Earth Dynamics, Inc. – Electrical Resistivity
Earth Dynamics, Inc. – Ground Penetrating Radar
Electromagnetic Instruments, Inc. – Electromagnetic
Environmental Support Technologies, Inc. – Multimedia Sampling
GEHM Environmental Corporation – Electromagnetic
GeoNordic AB – Water Sampling
Geophysical Survey Systems – Ground Penetrating Radar
GEOVision, Inc. – Resistivity/ Conductivity
Hager-Richter Geoscience, Inc. – Electromagnetic
GeoScience USA Inc. – Ground Penetrating Radar
NAEVA Geophysics, Inc. – Electromagnetic
NAEVA Geophysics, Inc. – Ground Penetrating Radar
Northwest Geophysical Associates, Inc. – Seismic Reflection/Refraction
Precision Sampling, Inc.– Direct-Push (Cone Penetrometer)
Precision Sampling, Inc. – Direct-Push (GeoProbe)
Precision Sampling, Inc. – Direct-Push (Vibra-Push)
Precision Sampling, Inc. – Direct-Push (Waterloo Profiler)
Precision Sampling, Inc. – Multimedia Sampling
SIBAK Technologies Limited, Inc. – Multimedia Sampling

Other Characterization And Sampling Technologies
Aquatic Research Instruments – Multimedia Sampling
Applied Research Institute (ARI) – Sediment Sampling
Art's Manufacturing and Supply – Soil Sampling
Beacon Environmental – Soil Gas Analyzer
Bruker Franzen Analytical Systems, Inc. – Mass Spectroscopy
Burge Environmental – Water Sampling
Columbia Technologies, LLC – Soil Gas Analyzer
Dakota Technologies – Laser-Induced Fluorescence
DecisionFX, Inc. – Software (Sampling FX)
DecisionFX, Inc. – Software (Groundwater FX)
Designs & Prototypes, Ltd. – Spectroscopy (Micro FT)
Designs & Prototypes, Ltd. – Spectroscopy (Turbo FT)
Environmental Support Technologies, Inc. – Multimedia Sampling (Soil & Soil Gas)
Environmental Systems Corporation – Laser-induced Fluorescence
Fugro Geosciences – Laser-induced Fluorescence
GPE, Inc. – Seismic Reflection/ Refraction
Hach Company – Immunoassays
Hanna Instruments, Inc. – Colorimetrics
Horiba Instruments Inc. – Spectroscopy
Inficon, Inc. – Mass Spectroscopy
Innova Air Tech Instruments – Infrared Monitors
Innov-X – X-Ray Fluorescence
Microsensor – Chromatography
QED Environmental Systems – Water Sampling
Robertson Geologging – Water Sampling
RAE Systems, Inc. – Analytical Detectors
Scintrex, LTD. – Magnetometry
Sentex Systems, Inc. – Chromatography
Smiths Detection – Ion Mobility Spectroscopy
Spectro Analytical Instruments – X-Ray Fluorescence
Spectrum Geophysics – Electromagnetic
Terraplus USA – Electromagnetic
Terraplus USA – Resistivity/ Conductivity
Turner Designns Hydrocarbon Instruments – Ion Mobility Spectroscopy
XonTech, Inc. – Air/Gas Sampling

* Reference in this Fact Sheet or EPA REACH IT to any specific commercial product, process, or service, by trade name, trademark, manufacturer, or otherwise, does not constitute or imply the endorsement, recommendation, or favor of the United States Government

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