
SITE PROGRAM DESCRIPTION

The U.S. Environmental Protection Agency's (EPA) Superfund Innovative Technology Evaluation (SITE) Program, now in its sixteenth year, encourages the development and implementation of (1) innovative treatment technologies for hazardous waste site remediation, and (2) characterization and monitoring technologies for evaluating the nature and extent of hazardous waste site contamination.

The SITE Program was established by EPA's Office of Solid Waste and Emergency Response (OSWER) and the Office of Research and Development (ORD) in response to the 1986 Superfund Amendments and Reauthorization Act (SARA), which recognized a need for an "Alternative or Innovative Treatment Technology Research and Demonstration Program." The SITE Program is administered by ORD's National Risk Management Research Laboratory (NRMRL), headquartered in Cincinnati, Ohio.

The SITE Program includes the following key elements:

- **Demonstration Program** - Conducts and evaluates demonstrations of promising innovative technologies to provide reliable performance, cost, and applicability information for site cleanup decision-making
- **Emerging Technology Program** - Support of the Emerging Technology Program ended in 1998 after completion of all committed projects in the Program
- **Monitoring and Measurement Technologies** - Evaluates technologies that detect, monitor, and measure hazardous and toxic substances to provide better, faster, and more cost-effective methods for producing real-time data during site characterization and remediation
- **Information Transfer Activities** - Disseminates technical information, including engineering, performance, and cost data, on innovative technologies to remove impediments for using innovative technologies.

This Technology Profiles document describes completed and ongoing projects in the Demonstration, Emerging Technology, and Characterization and Monitoring Programs. Figure 1 shows the relationship among the programs and depicts the process of technology development from initial concept to commercial use.

In the Demonstration Program, the technology is field-tested on hazardous waste materials. Engineering and cost data are gathered on the innovative technology so that potential users can assess the technology's applicability to a particular site. Data collected during the field demonstration are used to assess the performance of the technology, the potential need for pre- and post-processing of the waste, applicable types of wastes and waste matrices, potential operating problems, and approximate capital and operating costs.

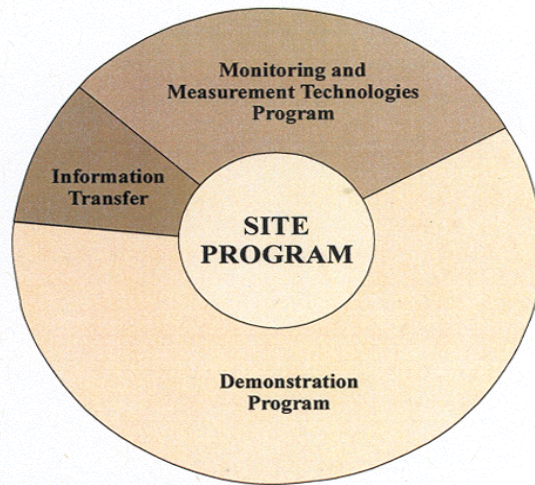


Figure 1 *Development of Innovative Technologies*

At the conclusion of a SITE demonstration, EPA prepares an Innovative Technology Evaluation Report (ITER), Technology Capsule, and Demonstration Bulletin. Often, a videotape of the demonstration is also prepared. These reports evaluate all available information on the technology and analyze its overall applicability to other site characteristics, waste types, and waste matrices. Testing procedures, performance and cost data, and quality assurance and quality control standards are also presented. These demonstration documents are distributed by EPA to provide reliable technical data for environmental decision-making and to promote the technology's commercial use.

The Demonstration Program currently has 147 program participants conducting 141 demonstrations. Of these projects 128 demonstrations are complete and 13 are ongoing. The projects are divided into the following categories: thermal treatment (34), biological degradation (28), physical/chemical treatment (50), solidification/stabilization (13), phytoremediation (5), soil washing (4), materials handling (3), and other (4). Several technologies represent more than one treatment category.

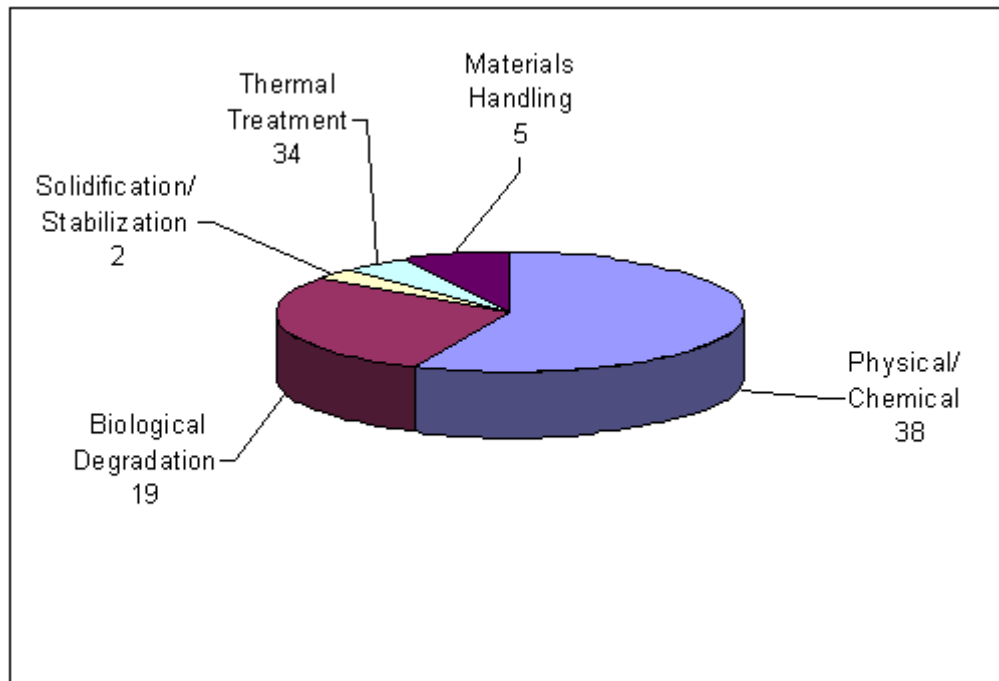


Figure 2: *Innovative Technologies in the Emerging Technology Program*

Figure 2 shows the breakdown of technologies in the Demonstration Program. Profiles for technologies demonstrated under the Demonstration Program are located in Volume I.

EPA has provided technical and financial support to 77 projects in the Emerging Technology Program. Seventy-three are completed and four have exited the program. Eighteen Emerging Technology Program projects participated in the Demonstration Program. The seventh-three active technologies are divided into the following categories: thermal destruction (9), physical/chemical treatment (38), biological degradation (19), solidification/stabilization (2), and materials handling (5). Figure 3 displays the breakdown of technologies in the Emerging Technology Program. Profiles for technologies demonstrated under the Emerging Technology Program are located in Volume II.

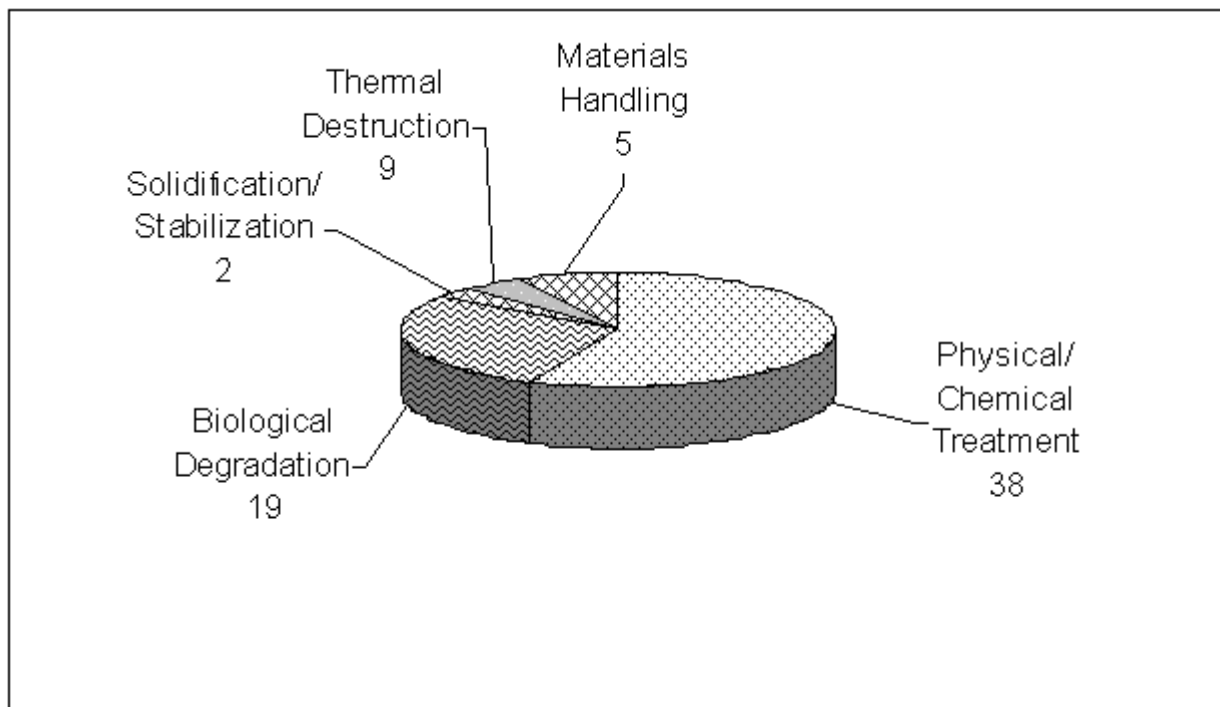


Figure 3: Innovative Technologies in the Demonstration Program

The Monitoring and Measurement Technologies (MMT) Program's goal is to assess innovative and alternative monitoring, measurement, and site characterization technologies. To date, 38 technology demonstrations have occurred under the MMT Program. These demonstrations have included four cone penetrometers, 6 field portable X-ray fluorescence units, 6 portable gas chromatographs, 4 spectrophotometers, 12 field test kits, and 6 soil samplers. Profiles for technologies demonstrated under the MMT Program are located in Volume III.

In the Technology Transfer Program, technical information on innovative technologies in the Demonstration Program, Emerging Technology Program, and MMT Program is disseminated to increase the awareness and promote the use of innovative technologies for assessment and remediation at Superfund sites. The goal of technology transfer activities is to promote communication among individuals requiring current technical information for conducting site investigations and cleanups.

The Technology Transfer Program reaches the environmental community through many media, including:

- Program-specific regional, state, and industry brochures
- On-site Visitors' Days during SITE demonstrations
- Demonstration videotapes
- Project-specific fact sheets to comply with site community relations plans
- ITERs, Demonstration Bulletins, Technology Capsules, and Project Summaries

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- The SITE Exhibit, displayed nationwide and internationally at conferences
 - Networking through forums, associations, regions, and states
 - Technical assistance to regions, states, and remediation cleanup contractors

SITE information including an electronic version of this document, is available through the following on-line information clearinghouses:

SITE Program Home Page: <http://www.epa.gov/ORD/SITE>

Cleanup Information Bulletin Board System (CLU-IN)

Help Desk: 301-589-8368; Internet Access: <http://www.clu-in.org>

Technical reports may be obtained by calling the National Service Center for Environmental Publications in Cincinnati, Ohio. To find out about newly published documents or to be placed on the SITE mailing list, call or write to:

USEPA/NSCEP
P. O. Box 42419
Cincinnati, OH 45242-2419
1-800-490-9198

SITE PROGRAM CONTACTS

The SITE Program is administered by EPA's Office of Research and Development (ORD), specifically the National Risk Management Research Laboratory (NRMRL). For further information on the SITE Program or its component programs contact:

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TABLE 1
Completed SITE Demonstration Program Projects as of September 2002

Developer/ Technology	Demonstration Location/ Demonstration Date	Technology Contact	EPA Project Manager	Applicable Media	Applicable Waste	
					Inorganic	Organic
Active Environmental, Inc. Mount Holly, NJ TechXtract® Decontamination Process	Pearl Harbor, Hawaii March 1997	Scott Fay 609-702-1500	Dennis Timberlake 513-569-7547	Porous Solid Materials	Heavy Metals, Radionuclides	PCBs, Hydrocarbons
Advanced Remediation Mixing, Inc. (formerly Chemfix Technologies Inc.) Kenner, LA Solidification and Stabilization	Portable Equipment Salvage Company site in Clackamas, OR March 1989	Sam Pizzitola 504-461-0466	Edwin Barth 513-569-7869	Soil, Sludge, Solids	Heavy metals, Low- level Nuclear Waste	Not Applicable
AMEC Earth and Environmental (formerly Geosafe Corporation) Richland, WA GeoMelt Vitrification	Parsons Chemical site in Grand Ledge, MI March - April 1994	James Hansen Matthew Haass 609-942-1292	Teri Richardson 513-569-7949	Soil, Sludge, Sediments	Nonspecific Inorganics	Nonspecific Organics
American Combustion, Inc. Norcross, GA PYRETRON® Thermal Destruction	EPA's Incineration Research facility in Jefferson, AR using soil from Stringfellow Acid Pit Superfund Site in Glen Avon, CA November 1987 - January 1988	Gregory Gitman 770-564-4180	Laurel Staley 513-569-7863	Liquids, Solids, Sludges	Not Applicable	Nonspecific Organics
Arctic Foundations, Inc. Anchorage, AK Cryogenic Barrier	U.S. Department of Energy's Oak Ridge National Laboratory in Oak Ridge, Tennessee in 1998.	Ed Yarmak 907-562-2741 ext. 103	Steven Rock 513-569-7149	Soil	Nonspecific Inorganics	Nonspecific Organics
Argonne National Laboratory Argonne, IL Development of Phytoremediation	Argonne National Laboratory- East Summer of 1999	Christina Negri 630-252-9662	Steven Rock 513-569-7149	Soil, Groundwater	Tritium	VOCs
ARS Technologies, Inc. (formerly Accutech Remedial Systems, Inc.) Highland Park, NJ * Pneumatic Fracturing Extraction SM and Catalytic Oxidation	New Jersey Environmental Cleanup Responsibility Act site in Hillsborough, NJ July - August 1992	John Liskowitz 908-739-6444	Paul dePercin 513-569-7797	Soil, Rock, Groundwater	Not Applicable	Halogenated and Nonhalogenated VOCs and SVOCs
ASC/EMR WPAFB Wright Patterson AFB, OH Phytoremediation of TCE in Groundwater	Air Force Plant 4 at Naval Air Station Ft. Worth Spring 1996	Greg Harvey 937-255-7716 ext. 302	Steven Rock 513-569-7149	Groundwater, Soil	Not Applicable	TCE, Petroleum, Munitions, Halogenated Hydrocarbons
AWD Technologies, Inc. (formerly Dow Environmental, Inc.) Walnut Creek, CA Integrated AquaDetox Steam Vacuum Stripping and Soil Vapor Extraction/Reinjection	San Fernando Valley Groundwater Basin Superfund site in Burbank, CA September 1990	Ken Solcher 713-914-6607	Gordon Evans 513-569-7684	Groundwater, Soil	Not Applicable	VOCs, Chlorinated Hydrocarbons

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TABLE 1 (Continued)
Completed SITE Demonstration Program Projects as of September 2002

Developer/ Technology	Demonstration Location/ Demonstration Date	Technology Contact	EPA Project Manager	Applicable Media	Applicable Waste	
					Inorganic	Organic
Bergmann, A Division of Linatex, Inc. Gallatin, TN Soil and Sediment Washing	Toronto, Ontario, Canada and Saginaw Bay Confined Disposal Facility in Saginaw, MI April 1992 and May 1992	John Best 615-230-2100	Annette Gatchett 513-569-7697	Soil, Sediment	Heavy Metals, Radionuclides	PCBs, Nonspecific Organics
Berkeley Environmental Restoration Center Berkeley, CA In Situ Steam Enhanced Extraction Process	Lawrence Livermore National Laboratory in Altamont Hills, CA December 1993	Kent Udell 510-642-2928 Steve Collins 510-643-1900	Paul dePercin 513-569-7797	Soil, Groundwater	Not Applicable	VOCs and SVOCs, Hydrocarbons, Solvents
Billings and Associates, Inc. Albuquerque, NM Subsurface Volatilization and Ventilation System (SVVS®)	Site in Buchanan, MI March 1993 - May 1994	Brad Billings 505-345-1116	Paul dePercin 513-569-7797	Soil, Sludge, Groundwater	Not Applicable	BTEX, Hydrocarbons
BioGenesis Enterprises, Inc. Springfield, VA BioGenesis SM Soil and Sediment Washing Process	Refinery site in Minnesota November 1992	Charles Wilde 703-913-9700	Annette Gatchett 513-569-7697	Soil, Sediment, Sludge	Nonspecific Inorganics	Volatile and Nonvolatile Hydrocarbons, PCBs, Nonspecific Organics
Bio-Rem, Inc. Butler, IN Augmented In Situ Subsurface Bioremediation Process	Williams AFB in Phoenix, AZ May 1992 - June 1993	David Mann 219-868-5823 800-428-4626	Teri Richardson 513-569-7949	Soil, Water	Not Applicable	Halogenated and Nonhalogenated Hydrocarbons
Biotherm, LCC (formerly Dehydro-Tech Corp) Somerville, NJ Biotherm Process TM	EPA's Research Facility in Edison, NJ using wastes from the PAB Oil site in Abbeville, LA August 1991	Not Available	Laurel Staley 513-569-7863	Soil, Sludge, Sediment	Not Applicable	PCBs, Dioxins, PAHs, Hydrocarbon- Soluble Organics
BioTrol® Eden Prairie, MN Biological Aqueous Treatment System	MacGillis and Gibbs Superfund site in New Brighton, MN July - September 1989	Durell Dobbins 612-942-8032	Mary Stinson 732-321-6683	Liquid Waste, Groundwater	Not Applicable	Chlorinated and Nonchlorinated Hydrocarbons, Pesticides
BioTrol® Eden Prairie, MN Soil Washing System	MacGillis and Gibbs Superfund site in New Brighton, MN September - October 1989	Dennis Chilcote 612-942-8032	Mary Stinson 732-321-6683	Soil	Nonspecific Metals	High Molecular Weight Organics, PAHs, PCP, PCBs, Pesticides
Brice Environmental Services Corporation Fairbanks, AK Soil Washing Process	Alaskan Battery Enterprises Superfund site in Fairbanks, AK September 1992	Craig Jones 907-456-1955	John Martin 513-569-7758	Soil	Radioactive and Heavy Metals	Hydrocarbons
BWX Technologies, Inc. (Affiliate of Babcock & Wilcox Co.) Lynchburg, VA Cyclone Furnace	Developer's facility in Alliance, OH November 1991	Evans Reynolds 804-522-6000	Laurel Staley 513-569-7863	Solids, Soil, Sludge	Nonspecific, Low- Level Radionuclides, Heavy Metals	Nonspecific Organics

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TABLE 1 (Continued)
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Calgon Carbon Advanced Oxidation Technologies (formerly Vulcan Peroxidation Systems, Inc.) Pittsburgh, PA perox-pure™ Chemical Oxidation Technology	Lawrence Livermore National Laboratory in Altamont Hills, CA September 1992	Bertrand Dussert 412-787-6681	Norma Lewis 513-569-7665	Groundwater, Wastewater	Not Applicable	Fuel Hydrocarbons, Chlorinated Solvents, PCBs, Phenolics, Pesticides
CF Systems Corporation Boise, ID Liquified Gas Solvent Extraction (LG-SX) Technology	New Bedford Harbor Superfund site in New Bedford, MA September 1988	V.M. Poxleitner 208-386-5361	Laurel Staley 513-569-7863	Soil, Sludge, Sediment, Wastewater	Not Applicable	VOCs, SVOCs, PAHs, PCBs, Dioxins, PCP
COGNIS, Inc.** Boss, MO TERRAMET® Soil Remediation System	Twin Cities Army Ammunition Plant in New Brighton, MN August 1994	William E. Fristad 248-588-4719 Lou Magdits 573-626-3476	Michael Royer 908-321-6633	Soil, Sludge, Sediment	Lead, Heavy Metals	Not Applicable
Colorado Department of Public Health and Environment (Developed by Colorado School of Mines) Denver, CO Constructed Wetlands-Based Treatment	Constructed Wetlands-Based Treatment Began in Summer 1993 Completed November 1993	James Lewis 303-692-3390	Edward Bates 513-569-7774	Acid Mine Drainage	Metals	Not Applicable
Commodore Advanced Sciences, Inc. Albuquerque, NM Solvated Electron Technology Set™ Remediation System	Construction Battalion Supply Center in Port Hueneme, CA September 1996	O.M. Jones 505-872-3508	Paul dePercin 513-569-7797	Soils, Sludges, Sediments, Oils, Hand Tools, Personal Protective Clothing	Not Applicable	PCBs, Pesticides, Halogenated Compounds
Current Environmental Solutions Richland, WA Six-Phase Heating™ of TCE	Cape Canaveral, Florida July 997 Completed 2001	Bill Heath 509-727-4276	Tom Holdsworth 513-569-7675	Groundwater, Soil	Not Applicable	Halogenated Organics
Duke Engineering and Services, Inc. Austin, TX Surfactant Enhanced Aquifer Remediation of Nonaqueous Phase Liquids	Mullican Fields, Pearl Harbor, HI	Dick Jackson John Londergan 512-425-2000	Randy Parker 513-569-7271	Groundwater	Not Applicable	Nonspecific Organics
E.I. DuPont de Nemours and Company, and Oberlin Filter Co. Wilmington, DE Membrane Microfiltration	Palmerton Zinc Superfund site in Palmerton, PA April - May 1990	Ernest Mayer 302-774-2277	John Martin 513-569-7758	Groundwater, Leachate, Wastewater, Electroplating Rinsewaters	Heavy Metals, Cyanide, Uranium	Organic Particulates, Volatile Organics, Oily Wastes

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TABLE 1 (Continued)
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Dynaphore, Inc. Richmond, VA FORAGER® Sponge	National Lead Industry site in Pedricktown, NJ April 1994	Norman Rainer 804-288-7109	Carolyn Esposito 732-906-6895	Industrial Discharge, Municipal Sewage, Process Streams, Acid Mine Drainage	Metals	Not Applicable
E&C Williams, Inc. Summerville, SC Calcium Sulfide and Calcium Polysulfide Technologies	Site Mine Facility Butte, Montana November 2000	Robert McManus 843-821-4200	Edward Bates 513-569-7774	Sludge, Groundwater, Sediment, Soils	Mercury	Not Applicable
Earth Tech/Westinghouse Savannah River Co. Roanoke, VA Enhanced In Situ Bioremediation of Chlorinated Compounds in Groundwater	March 1998	Dr. Brian B. Looney 803-725-3692 Rosann Kryczkowski 540-362-7356	Vince Gallardo 513-569-7176	Groundwater	Not Applicable	VOCs
EarthSoft Cantonment, FL EquiS Software	Cantonment, FL Completed in Summer 2002	Mitch Beard 800-649-8855	Richard Eilers 513-569-7809	Not Applicable	Not Applicable	Not Applicable
EcoMat, Inc. Hayward, CA Biological Deitrification Process	Former public water supply well in Bendena, Kansas May - December 1999	Peter J. Hall 510-783-5885	Randy Parker 513-569-7271	Groundwater, Wastewater	Perchlorate	MTBE
ECOVA Corporation Boulder, CO Bioslurry Reactor	EPA's Test and Evaluation Facility in Cincinnati, OH May - September 1991	Not Applicable	Annette Gatchett 513-569-7697	Soil, Sludge, Sediment	Not Applicable	Creosote and Petroleum Wastes
Edenspace, Inc. (formerly Phytotech) Dolles, VA Phytoremediation Technology	Former battery manufacturing facility Tenton, NJ 1997-1998	Michael Blaylock 703-961-8700	Steven Rock 513-569-7149	Soil, Sediment, Groundwater	Not Applicable	Nonspecific Organics
ELI Eco Logic Rockwood, Ontario, Canada Thermal Gas Phase Reduction Process and Thermal Desorption Unit	Middleground Landfill in Bay City, MI October - November 1992	Jim Nash 519-856-9591	Gordon Evans 513-569-7684	Soil, Sludge, Liquids	Not Applicable	PCBs, PAHs, Chlorinated Dioxins and Dibenzofurans, Chlorinated Solvents and Chlorophenols
EmTech Environmental Services (formerly HAZCON, Inc.) Gulfport, MS Dechlorination and Immobilization	Former oil processing plant in Douglasville, PA/October 1987	Ray Funderburk 228-868-9915	Paul dePercin 513-569-7797	Soil, Sludge, Sediment	Heavy Metals	Nonspecific Chlorinated Organics

TABLE 1 (Continued)
Completed SITE Demonstration Program Projects as of September 2002

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EnviroMetal Technologies Inc. Guelph, Ontario, Canada In Situ and Ex Situ Metal-Enhanced Abiotic Degradation of Dissolved Halogenated Organic Compounds in Groundwater (Two Demonstrations)	Industrial facility in New Jersey and industrial facility in New York November 1994 - February 1995 and May - December 1995	John Vogan Stephanie O'Hannesin 519-824-0432	Annette Gatchett 513-569-7697	Groundwater	Not Applicable	Halogenated Organic Compounds
EnviroMetal Technologies, Inc. Guelph, Ontario, Canada In Situ Reactive Barrier	Rocky Flats Environmental Technology Site in Golden Colorado, 1996	John Vogan 519-824-0432	Thomas Holdsworth 513-569-7675	Groundwater Wastewater	Metals	VOCs
EPOC Water, Inc. Fresno, CA Precipitation, Microfiltration, and Sludge Dewatering	Iron Mountain Superfund site in Redding, CA May - June 1992	Rodney Squires 559-291-8144	Annette Gatchett 513-569-7697	Sludge, Wastewater, Leachable Soil	Heavy Metals	Nonspecific Organics
Filter Flow Technology, Inc. League City, TX Colloid Polishing Filter Method®	DOE's Rocky Flats Plant in Denver, CO September 1993	Tod Johnson 281-332-3438	Annette Gatchett 513-569-7697	Groundwater, Industrial Wastewater	Heavy Metals, Nontritium Radionuclides	Not Applicable
Gas Technology Institute (formerly Institute of Gas Technology) Cement-Lock Technology	Bench-Scale	Anil Goyal 847-768-0605	Edward Barth 513-569-7669	Soil, Sediment	Heavy Metals	Nonspecific Organics
General Atomics (formerly Ogden Environmental) San Diego, CA Circulating Bed Combustor	Developer's facility in San Diego, CA using waste from the McColl Superfund site in Fullerton, CA/March 1989	Dan Jensen 858-445-4158	Douglas Grosse 513-569-7844	Soil, Sludge, Slurry, Liquids	Metals, Cyanides, Nonspecific Inorganics	Halogenated and Nonhalogenated Organic Compounds, PCBs
General Environmental Inc. (formerly Hydrologics, Inc./Cure International, Inc.) Denver, CO CURE®-Electrocoagulation Wastewater Treatment System	DOE's Rocky Flats Plant in Denver, CO August - September 1995	Carl Dalrymple 303-889-5949 Dan Eide 561-575-3500	Steven Rock 513-569-7149	Water	Metals and Radionuclides	Not Applicable
Geokinetics International, Inc. Berkeley, CA Electroheat-Enhanced Nonaquious- Phase Liquids Removal	Pearl Harbor, Oahu, HI 1997	Dr. Stephan R. Clarke 510-704-2941	Thomas Holdsworth 513-569-7645	Clay, Silty Clay, Shale Beds, Gravel Deposits, etc.	Not Applicable	Fuel Oil, Diesel, Kerosene, PAHs, Coal Tar, Hydraulic Fluid, TCE
Geokinetics International, Inc. Berkeley, CA Electrokinetics for Lead Recovery	During the Summer of 2002	Dr. Stephan R. Clarke 510-701-2941	Thomas Holdsworth 513-569-7675	Soil, Sediment	Lead	Not Applicable
GeoTech Development Corporation Newark, NJ Cold Top Ex-Situ Verification of Chromium-Contaminated Soils	Geotech's Pilot Plant in Niagara Falls, NY February-March 1997	Thomas Tate 610-337-8515 William Librizzi 973-596-5846	Marta K. Richards 513-569-7692	Solids, Ash, Slag	Hexavalent Chromium, Heavy metals	Not Applicable

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TABLE 1 (Continued)
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					Inorganic	Organic
GIS\Solutions, Inc. Concord, CA GIS\Key™ Environmental Data Management System	San Francisco, CA and Washington, DC August 1993 (CA) and December 1993 (DC)	Lawrence Eytel 925-944-3720 ext. 211	Richard Eilers 513-569-7809	Not Applicable	Not Applicable	Not Applicable
GRACE Bioremediation Technologies Mississauga, Ontario, Canada DARAMEND™ Bioremediation Technology	Domtar Wood Preserving facility in Trenton, Ontario, Canada Fall 1993 - September 1994	Alan Seech David Raymond 905-273-5374	Teri Richardson 513-569-7949	Soil, Sediment, Sludge	Lead, Manganese, Zinc	PAHs, PCP, Total Petroleum Hydrocarbons
Gruppo Italmipresse (developed by Shirco Infrared Systems, Inc.) (formerly Ecova Europa) Rome, Italy Infrared Thermal Destruction	Peak Oil Superfund site in Brandon, FL and Rose Township-Demede Road Superfund site in Oakland County, MI. August 1987 (FL) and November 1987 (MI)	John Goffi or Gruppo Italmipresse 606-883-1900	Laurel Staley 513-569-7863	Soil, Sediment	Not Applicable	Nonspecific Organics
High Voltage Environmental Applications, Inc. (formerly Electron Beam Research Facility, Florida International University, and University of Miami) Wilmington, NC High-Energy Electron Irradiation	DOE's Savannah River site in Aiken, SC September - November 1994	William Cooper 910-962-3450	Franklin Alvarez 513-569-7631	Liquid, Sludge	Not Applicable	Most Organics
Horsehead Resource Development Co., Inc. Palmerton, PA Flame Reactor	Developer's facility in Monaca, PA using waste from National Smelting and Refining Company Superfund site in Atlanta, GA March 1991	Regis Zagrocki 724-773-9031	Marta K. Richards 513-569-7692	Soil, Sludge, Industrial Solid Residues	Heavy Metals	Not Applicable
Hrubetz Environmental Services, Inc. Dallas, TX HRUBOUT® Hot Air Injection Process	Kelly Air Force Base in San Antonio, TX January - February 1993	Not Available	Gordon Evans 513-569-7684	Soil	Not Applicable	Halogenated or Nonhalogenated VOCs and SVOCs
Hughes Environmental Systems, Inc. Steam Enhanced Recovery Process	Fuel spill site in Huntington Beach, CA August 1991 - September 1993	Not Available	Paul dePercin 513-569-7797	Soil, Groundwater	Not Applicable	VOCs, SVOCs, Hydrocarbons, Solvents
IIT Research Institute Chicago, IL Radio Frequency Heating	Kelly Air Force Base in San Antonio, TX August 1993	Harsh Dev 312-567-4257	Laurel Staley 513-569-7863	Soil	Not Applicable	Petroleum Hydrocarbons, VOCs, SVOCs, Pesticides
International Waste Technologies and Geo-Con, Inc. Monroeville, PA In Situ Solidification and Stabilization Process	General Electric Service Shop site in Hialeath, FL April 1988	Stephen McCann 412-856-7700	Mary Stinson 732-321-6683	Soil, Sediment, Sludge	Nonspecific Inorganics	PCBs, PCP, Other Nonspecific Organics

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					Inorganic	Organic
IT Corporation Tampa, FL KMnO ₄ (Potassium Permanganate) Oxidation of TCE	LC34, Cape Canaveral, FL	Ernest Mott-Smith 813-612-3677	Tom Holdsworth 513-56-7675	Soil, Groundwater	Not Applicable	Halogenated VOCs
IT Corporation (formerly OHM Remediation Services Corp.) Findlay, OH X*TRAX™ Thermal Desorption	Re-Solve, Inc., Superfund site in North Dartmouth, MA May 1992	Robert Biolchini 419-423-3526	Paul dePercin 513-569-7797	Soil, Sludge, Solids	Mercury, Heavy Metals	VOCs, SVOCs, PCBs, Hydrocarbons
KAI Technologies, LLC. Portsmouth, NH Radio Frequency Heating	Kelly Air Force Base in San Antonio, TX January - July 1994	Raymond Kasevich Michael Marley 413-528-6634	Laurel Staley 513-569-7863	Soil	Not Applicable	Petroleum Hydrocarbons, VOCs, SVOCs, Pesticides
KSE, Inc. Amherst, MA Adsorption-Integrated-Reaction Process	Dover Air Force Base, Dover, Delaware	J.R. Kittrell 413-549-5506	Vince Gallardo 513-569-7176	Air Streams	Not Applicable	VOCs
MacTec-SBP Technologies Company (formerly EG&G Environmental, Inc) Golden, CO No VOCs™ In-Well Stripping Technology	Naval Air Station North Island in San Diego, California June 1998	Mark McGalthery 303-278-3100	Michelle Simon 513-569-7469	Groundwater	Soluble metals	BTEX, TCE, DCE, PAHs, Alcohols, Ketones
Magnum Water Technology El Segundo, CA CAV-OX® Process	Edwards Air Force Base, CA March 1993	Dale Cox 310-322-4143 Jack Simser 310-640-7000	Richard Eilers 513-569-7809	Groundwater, Wastewater	Cyanide	Halogenated Solvents, Phenol, PCP, PCBs, BTEX
Matrix Photocatalytic Inc.** London, Ontario, Canada Photocatalytic Aqueous Phase Organic Destruction	DOE's Oak Ridge Reservation in Oak Ridge, TN August - September 1995	Bob Henderson 519-660-8669	Richard Eilers 513-569-7809	Wastewater, Groundwater, Process Water	Nonspecific Inorganics	Most Organics
Maxymillian Technologies, Inc. (formerly Clean Berkshires, Inc.) Boston, MA Thermal Desorption System	Niagara Mohawk Power Corporation Harbor Point site in Utica, NY November - December 1993	Neal Maxymillian 617-557-6077	Annette Gatchett 513-569-7697	Soil	Cyanide	VOCs, SVOCs, PAHs, Coal Tars

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TABLE 1 (Continued)
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Micro-BAC® International, Inc. Round Rock, TX Bioaugmentation Process	Lower Colorado River Authority Goldthwaite, TX August 2000	Todd Kenney 512-310-9000	Ronald Herrmann 513-569-7741	Soil, Groundwater, Wastewater	Not Applicable	TPH, PAH, PCB
Minergy Corporation Neenah, WI Glass Furnace Technology for Dredged Sediments	Minergy's pilot glass furnace, located in Winneconne, Wisconsin August 2001	Terrence W. Carroll 920-727-1411	Marta K. Richards 513-569-7271	Sediments	Nonspecific Inorganics	Not Applicable
Morrison Knudsen Corporation/ Spetstamponazhgeologia Enterprises Boise, ID Clay-Based Grouting Technology	Mike Horse Mine Site in Montana 1994-1996	Rick Raymondi 208-386-5000	Annette Gatchett 513-569-7697	Groundwater, Liquid	Heavy Metals	Nonspecific Organics
New York State Department of Environmental Conservation/ ENSR Consulting and Engineering, and Larsen Engineers Albany, NY Ex Situ Biovault	Sweden 3-Chapman site in Sweden, NY July - December 1994	Jim Harrington 518-457-0337 Dr. David Ramsden 713-520-9900 Dr. N. Sathiyakumar 716-272-7310	Annette Gatchett 513-569-7697	Soil	Not Applicable	Chlorinated and Nonchlorinated VOCs and SVOCs
New York State Department of Environmental Conservation/ SBP Technologies, Inc. Albany NY Groundwater Circulation Biological Treatment Process	Sweden 3-Chapman site in Sweden, NY July 1994 - Fall 1995	Jim Harrington 518-457-0337 Richard Desrosiers 914-694-2280	Michelle Simon 513-569-7469	Soil, Groundwater	Not Applicable	Chlorinated and Nonchlorinated VOCs
New York State Department of Environmental Conservation/ Science Applications International Corp. Albany, NY In Situ Bioventing Treatment System	Sweden 3-Chapman site in Sweden, NY July - December 1994	Jim Harrington 518-457-0337 Richard Cronce 717-901-8100	Annette Gatchett 513-569-7697	Soil	Not Applicable	Chlorinated and Nonchlorinated VOCs, SVOCs
North American Technologies Group, Inc. Bellaire, TX Oleophilic Amine-Coated Ceramic Chip	Petroleum Products Corporation site in Fort Lauderdale, FL June 1994	Tim Torrillion 713-662-2699	Laurel Staley 513-569-7863	Groundwater, Marine Wastes	Not Applicable	Gasoline, Crude Oil, Diesel Fuel, BTEX, PAHs, PCBs, PCP, Trichloroethene
NOVATERRA Associates (formerly Toxic Treatment, Inc.) Los Angeles, CA In Situ Soil Treatment (Steam and Air Stripping)	Annex Terminal in San Pedro, CA September 1989	Phil La Mori 310-328-9433	Paul dePercin 513-569-7797	Soil, Sludge, Liquids	Nonspecific Inorganics, Heavy Metals	VOCs, SVOCs, Hydrocarbons

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Pharmacia Corporation (formerly Monsanto/DuPont) St. Louis, MO Lasagna™ In Situ Soil Remediation	DOE's Paducah Gaseous Diffusion Plant, Kentucky May 1995	Dr. Sa Ho 314-694-5179	Wendy Davis-Hoover 513-569-7206 Dr. Michael Roulier 513-569-7796	Groundwater, Soils	Nonspecific Inorganics	Nonspecific Organics
Phytokinetics, Inc. North Logan, UT Phytoremediation Process	Former Chevron Terminal #129-0350 Site, Ogden, UT 1996-1999	Ari Ferro 435-750-0985	Steven Rock 513-569-7149	Soil, Sediment, Groundwater	Not Applicable	Nonspecific Organics
Pintail Systems, Inc. Denver, CO Spent Ore Bioremediation Process	EchoBay/McCoy Cover Mine Site near Battle Mountain, NV June 11, 1997 - August 26, 1997	Leslie Thompson 303-367-8443	Patrick Clark 513-569-7561	Spent Ore, Waste Rock, Mine Tailings, Mining Process Water	Cyanide	Not Applicable
Praxis Environmental Technologies, Inc. Burlingame, CA In Situ Thermally Enhanced Extraction (TEE) Process	Operable Unit 2 at Hill Air Force Base, Ogden, UT June and July 1997	Dr. Lloyd Steward 650-548-9288 Major Paul B. Devan 850-283-6288	Paul dePercin 513-569-7797	Soil, Groundwater	Not Applicable	VOCs and SVOCs, Hydrocarbons, Solvents
Regenesis San Clemente, CA Time Release Electron Acceptors and Donors for Accelerated Natural Attenuation	Fisherville Mill, Grafton, MA July 2000 Rocky Mountain Arsenal, Denver, CO May 2001	Dr. Stephen Koenigsberg 949-366-8000	Paul dePercin 513-569-7797	Soil, Groundwater	Not Applicable	Halogenated VOCs
Region 8 and State of Colorado Pittsburgh, PA Multiple Innovative Passive Mine Drainage Technologies	Summitville Mine Superfund Site in the San Juan Mountains in southwestern Colorado	George Watzlaf 412-386-6754 Mike Jenkins 304-329-1056	Edward Bates 513-569-7675	Waste Water, Heavy Metals, Leachate	Metals	Not Applicable
Remediation Technologies, Inc. (formerly Mo Tech, Inc.) Seattle, WA Liquid and Solids Biological Treatment	Niagara Mohawk Power Corporation Facility Harbor Point, Utica, NY June-August 1995	Merv Cooper 206-624-9349	Annette Gatchett 513-569-7697	Soil, Sediment, Sludge	Not Applicable	Biodegradable Organics, Creosote, PCP, PAHs
Resources Conservation Company Bellevue, WA B.E.S.T. Solvent Extraction Technology	Grand Calumet River site in Gary, IN July 1992	William Heins 425-828-2400 ext. 1330	Mark Meckes 513-569-7348	Soil, Sludge, Sediment	Not Applicable	Hydrocarbons, PCBs, PAHs, Pesticides, Herbicides
Retech, M4 Environmental Management Inc. Ukiah, CA Plasma Arc Vitrification	DOE's Component Development and Integration Facility in Butte, MT/July 1991	Ronald Womack Leroy Leland 707-467-1721	Laurel Staley 513-569-7863	Soil, Sludge, Liquids, Solids	Heavy Metals	Nonspecific Organics
Rochem Separation Systems, Inc. Torrance, CA Reverse Osmosis: Disc Tube™ Module Technology	Central Landfill Superfund site in Johnston, RI August 1994	David LaMonica 310-370-3160	Douglas Grosse 513-569-7844	Nonspecific Liquids, Leachates	Nonspecific Inorganics	Organic Solvents

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Rocky Mountain Remediation Services, L.L.C. Golden, CO ENVIROBOND™ Solution	Crooksville/Roseville Pottery Site in Ohio	Bob McPherson 303-966-5414	Ed Barth 513-569-7669	Soil, Waste Streams, Other Media	Lead, Heavy Metals	Not Applicable
Sandia National Laboratories Albuquerque, NM In Situ Electrokinetic Extraction System	SNL RCRA regulated landfill May 1996	Eric Lindgren 505-844-3820 Earl D. Mattson 505-856-3311	Randy Parker 513-569-7271	Soil	Anionic Heavy Metals, Hexavalent Chromium	Not Applicable
SBP Technologies, Inc. Baton Rouge, LA Membrane Filtration and Bioremediation	American Creosote Works in Pensacola, FL October 1991	SBP Technologies, Inc. Baton Rouge, LA 504-755-7711	John Martin 513-569-7758	Groundwater, Surface Water, Storm Water, Landfill Leachates, Industrial Process Wastewater	Not Applicable	Organic Compounds, PAHs, Petroleum Hydrocarbons, TCE, PCP
Sevenson Environmental Services, Inc. (formerly Mae Corp, Inc.) Merrillville, IN MAECTITE® Chemical Treatment Process	Over 40 states, Canada, Italy, and Mexico 1993-1997	Charles McPheeters 219-756-4686	Annette Gatchett 513-569-7697	Soil, Sludge, Sediment, Solids	Lead, Other Heavy Metals	Not Applicable
Smith Environmental Technologies Corporation (formerly Canonic Environmental Services Corporation) Englewood, CO Low Temperature Thermal Aeration (LTTA®)	Pesticide site in Phoenix, AZ September 1992	Joseph Hutton 219-926-8651	Paul dePercin 513-569-7797	Soil, Sludge, Sediment	Not Applicable	VOCs, SVOCs, OCPs, OPPs, TPH
SoilTech ATP Systems, Inc. Englewood, CO Anaerobic Thermal Processor	Wide Beach Development Superfund site in Brant, NY and Waukegan Harbor Superfund site in Waukegan, IL May 1991 (NY); June 1992 (IL)	Joseph Hutton 219-926-8651	Paul dePercin 513-569-7697	Soil, Sludge, Sediment	Mercury	Petroleum and Halogenated Hydrocarbons, PAHs, VOCs, SVOCs
Soliditech, Inc. Houston, TX Solidification and Stabilization	Imperial Oil Company/Champion Chemical Company Superfund site in Morganville, NJ December 1988	Bill Stallworth 713-497-8558	Annette Gatchett 513-569-7697	Soil, Sludge	Metals, Nonspecific Inorganics	Nonspecific Organics Oil and Grease
SOLUCORP Industries West Nyack, NY Molecular Bonding System®	Midvale Slag Superfund Site in Midvale, Utah 1997	Robert Kuhn 914-623-2333	Thomas Holdsworth 513-5697675	Soil, Sludge	Heavy Metals	Not Applicable
Sonotech, Inc. Atlanta, GA Frequency-Tunable Pulse Combustion System	EPA's Incineration Research Facility in Jefferson, AR September - October 1994	Ben Zinn 404-894-3033	Marta K. Richards 513-569-7692	Soil, Sludge, Sediment, Gas	Nonspecific Inorganics	Nonspecific Organics

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Star Organics, L.L.C Dallas, TX Soil Rescue Remediation Fluid	Crooksville/Roseville Pottery Site in Ohio September 1998	Phil G. Clarke 214-522-0742	Ed Barth 513-569-7669	Soil	Lead, Other Heavy Metals	Not Applicable
STC Remediation, Inc. (formerly Silicate Technology Corporation) Scottsdale, AZ Organic Stabilization and Chemical Fixation/Solidification	Selma Pressure Treating Superfund site in Selma, CA November 1990	Scott Larsen Stephen Pegler 480-948-7100	Edward Bates 513-569-7774	Soil, Sludge, Wastewater	Heavy Metals, Cyanides, Fluorides, Arsenates, Chromates, Selenium	Nonspecific Organics, PAHs
SteamTech Environmental Services Bakersfield, CA Steam Enhanced Remediation (SER) at Loring AFB	Loring Air Force Base Summer 2002	Hank Sowers 661-322-6478	Eva Davis 580-436-8548	Soil, Groundwater	Not Applicable	Chlorinated VOCs
SteamTech Environmental Services Bakersfield, CA Steam Enhanced Remediation (SER) at Ridgefield, WA	Ridgefield, WA Spring 2002	Hank Sowers 661-322-6478	Marta Richards 513-569-7692	Soil, Groundwater	Not Applicable	Chlorinated VOCs
Terra-Kleen Response Group, Inc. San Diego, CA Solvent Extraction Treatment System	Naval Air Station North Island in San Diego, CA May - June 1994	Alan Cash 858-558-8762	Mark Meckes 513-569-7348 Terrence Lyons 513-569-7589	Soil, Sludge, Sediment	Not Applicable	PCBs, PCP, PAH, Creosote, Chlorinated Pesticides, PCDD, PCDF
Terra Vac Windsor, NJ In Situ and Ex Situ Vacuum Extraction	Groveland Wells Superfund site in Groveland, MA December 1987 - April 1988	Joseph A. Pezzullo 609-371-0070	Mary Stinson 732-321-6683	Soil, Groundwater	Not Applicable	VOCs, SVOCs
TerraTherm, Inc. Fitchburg, MA In Situ Thermal Destruction	Department of Defense Sites 1995	Dr. Ralph S. Baker 978-343-0300	Marta K. Richards 513-569-7692	Soil	Not Applicable	VOCs, PAH, PCBs
Texaco Inc. S. El Monte, CA Texaco Gasification Process	Developer's Montebello Research Laboratory using a mixture of soil from the Purity Oil Sales Superfund site in Fresno, CA January 1994	Tom Levninger 562-699-0948	Marta K. Richards 513-569-7692	Soil, Sludge, Sediment	Nonspecific Inorganics	Nonspecific Organics
Toronto Harbor Commission Toronto, Ontario Canada Soil Recycling	Toronto Port Industrial District in Toronto, Ontario, Canada April - May 1992	Ken Lundy 416-462-1261 ext. 11	Teri Richardson 513-569-7949	Soil	Nonspecific Inorganics	Nonspecific Organics
U.S. EPA/National Risk Management Research Laboratory Cincinnati, OH Alternative Cover Assessment Program	Various Landfills	Not Applicable	Steven Rock 513-569-7149	Landfills	Not Applicable	Not Applicable

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U.S. EPA/National Risk Management Research Laboratory Cincinnati, OH Base-Catalyzed Decomposition Process	Koppers Company Superfund site in Morrisville, NC August - September 1993	George Huffman 513-569-7431 Yei-Shong Shieh 213-832-0700	Terrence Lyons 513-569-7589	Soil, Sediment, Sludge	Not Applicable	PCBs, PCP, Halogenated Compounds, Polychlorinated Dioxins and Furans
U.S. EPA/National Risk Management Research Laboratory Cincinnati, OH Bioventing	Reilly Tar Site St. Louis Park, MN November 1992	Paul McCauley 513-569-7444	Paul McCauley 513-569-7444	Soil	Not Applicable	Nonspecific Organics
U.S. EPA/National Risk Management Research Laboratory Cincinnati, OH Mobile Volume Reduction Unit	Escambia Treating Company site in Pensacola, FL November 1992	Richard Griffiths 513-569-7832	Teri Richardson 513-569-7949	Soil	Metals	Creosote, PCP, PAHs, VOCs, SVOCs, Pesticides
U.S. EPA/National Risk Management Research Laboratory and INTECH 180 Corporation Cincinnati, OH Fungal Treatment Technology	Brookhaven Wood Preserving site in Brookhaven, MS June - November 1992	John Glaser 513-569-7568 Richard Lamar 801-753-2111	Teri Richardson 513-569-7949	Soil	Not Applicable	PCP, PAHs, Chlorinated Organics
U.S. EPA/National Risk Management Research Laboratory and IT Corporation Cincinnati, OH Debris Washing System	Superfund sites in Detroit, MI; Hopkinsville, KY; and Walker County, GA September 1988 (MI), December 1989 (KY), and August 1990 (GA)	Majid Dosani 513-782-4700	John Martin 513-569-7758	Debris	Nonspecific Inorganics	Nonspecific Organics PCBs, Pesticides
U.S. EPA/National Risk Management Research Laboratory, University of Cincinnati, and FRX, Inc. Cincinnati, OH Hydraulic Fracturing	Xerox Corporation site in Oak Brook, IL and an underground storage tank spill site in Dayton, OH. July 1991 - September 1992 (IL) and August 1991 - September 1992 (OH)	William Slack 513-469-6040	MMichael Roulier 513-569-7796	Soil, Groundwater	Nonspecific Inorganics	Nonspecific Organics
U.S. EPA Region 9 San Francisco, CA Excavation Techniques and Foam Suppression Methods	McColl Superfund site in Fullerton, CA June - July 1990	John Blevins 415-744-2400	Annette Gatchett 513-569-7697	Soil, Sludge, Sediment, Air	Metals	VOCs, SVOCs
U.S. Filter (formerly Ultrax International Inc.) Sunnyville, CA Ultraviolet Radiation and Oxidation	Lorentz Barrel and Drum Company site in San Jose, CA March 1989	Dr. Richard Woodling 408-752-1690	Norma Lewis 513-569-7665	Groundwater, Leachate, Wastewater	Not Applicable	Halogenated Solvents, VOCs, Pesticides, PCBs, BTEX, PCP

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University of Idaho Research Foundation (formerly licensed by J.R. Simplot Company) Moscow, ID The SABRE™ Process	Bowers Field in Ellensburg, WA and Weldon Spring Ordnance Works site in Weldon Spring, MO July 1993 (WA) and September 1993 - February 1994 (MO)	Ron Satterfield 208-885-4550	Wendy Davis-Hoover 513-569-7206	Soil	Not Applicable	Nitroaromatics
University of Nebraska-Lincoln Lincoln, NE Center Pivot Spray Irrigation System	North Landfill Subsite in Hastings, NE July 1996	Ray Spalding 402-472-7558	Teri Richardson 513-569-7949	Groundwater	Not Applicable	VOCs
WASTECH, Inc. Solidification and Stabilization	Robins Air Force Base in Warner Robins, GA August 1991	Not Available	Terrence Lyons 513-569-7589	Soil, Sludge, Liquids	Nonspecific and Radioactive Inorganics	Nonspecific Organics
Weiss Associates Emeryville, CA ElectroChemical Remediation Technologies (ECRTs)	February 2001	Joe Iovenitti 510-450-6141	Randy Parker 513-569-7797	Soil, Sediment, Groundwater	Heavy Metals	Phenols
Roy F. Weston, Inc. West Chester, PA Low Temperature Thermal Treatment System	Anderson Development Company Superfund site in Adrian, MI November - December 1991	Mike Cosmos 610-701-7423	Paul dePercin 513-569-7797	Soil, Sludge	Not Applicable	VOCs, SVOCs, Petroleum Hydrocarbons, PAHs, PCBs
Roy F. Weston, Inc./IEG Technologies West Chester, PA UVB - Vacuum Vaporizing Well	March Air Force Base, CA May 1993 - May 1994	Mike Cosmos 610-701-7423 Mike Corbin 610-701-3723	Michelle Simon 513-569-7469	Groundwater, Liquid, Soil	Heavy Metals	VOCs, SVOCs
Wheelabrator Clean Air Systems, Inc. (formerly Chemical Waste Management, Inc.) Schaumburg, IL PO*WW*ER™ Technology	Chemical Waste Management's facility in Lake Charles, LA September 1992	Myron Reicher 847-706-6900	Randy Parker 513-569-7271	Wastewater, Leachate, Groundwater, Low-Level Radioactive Mixed Waste	Metals, Volatile Inorganic Compounds, Radionuclides	VOCs and Nonvolatile Organic Compounds
Wilder Construction Company Everett, WA MatCon™ Modified Asphalt Cap	Dover Air Force Base Site April 1999	Karl Yost 425-551-3100	David Carson 513-569-7527	Leachate, Landfills	Not Applicable	Not Applicable
X-19 Biological Products Santa Clara, CA Microbial Degradation of PCBs	Lower Colorado River Authority in Goldthwaite, TX August 2000	Paul Gill 408-970-9485	Ronald Herrmann 513-569-7741	Soil	Not Applicable	VOCs, PAHs, PCBs

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Xerox Corporation Webster, NY 2-PHASE™ EXTRACTION Process	McClellan Air Force Base in Sacramento, CA August 1994 - February 1995	Ron Hess 716-422-3694 Phil Mook 916-643-5443	Paul dePercin 513-569-7797	Groundwater, Soil, Liquid	Nonspecific Soluble Inorganics	VOCs
ZENON Environmental Inc. Burlington, Ontario, Canada Cross-Flow Pervaporation System	Naval Air Station North Island in San Diego, CA February 1995	Chris Lipski 905-639-6320	Lee Vane 513-569-7799	Groundwater, Leachate, Liquid	Not Applicable	Solvents, Degreasers, Gasoline, Other VOCs
ZENON Environmental Inc. Burlington, Ontario, Canada ZenoGem™ Process	Nascolite Superfund site in Millville, NJ September - November 1994	Chris Lipski 905-639-6320	Daniel Sullivan 908-321-6677	Groundwater, Leachate, Wastewater	Not Applicable	Nonspecific Organics