

TABLE 3
Completed SITE Emerging Technology Program Projects as of September 2002

Developer	Technology	Technology Contact	EPA Project Manager	Applicable Media	Applicable Waste	
					Inorganic	Organic
Active Environmental, Inc. (formerly EET, Inc.) Mounty Holly, NJ	TechXract® Decontamination Process	Scott Fay 609-702-1500	Dennis Timberlake 513-569-7547	Porous Solid Materials	Heavy Metals, Radionuclides	PCBs, Hydrocarbons
Arizona State University/ Zentox Corporation Tempe, AZ	Photocatalytic Oxidation with Air Stripping	Gregory Raupp 480-965-3895	Norma Lewis 513-569-7665	Air Streams	Not Applicable	VOCs
ART International, Inc. (formerly Enviro-Sciences, Inc.) Denville, NJ	Low-Energy Extraction Process	Werner Steiner 973-627-7601	Randy Parker 513-569-7271	Soil, Sludge, Sediment	Not Applicable	Tar, Creosote, PCBs, Chlorinated Hydrocarbons, PAHs, Pesticides
Atomic Energy of Canada, Limited Chalk River, Ontario, Canada	Chemical Treatment and Ultrafiltration	Dr. Shiv Vijayan Shaun Cotnam 613-584-3311	John Martin 513-569-7758	Ground water, Leachate, Wastewater	Heavy Metals	Not Applicable
Atomic Energy of Canada, Limited Chalk River, Ontario, Canada	Ultrasonic-Aided Leachate Treatment	Dr. Shiv Vijayan Shaun Cotnam 613-584-3311	Randy Parker 513-569-7271	Acid Mine Drainage	Heavy Metals, Radionuclides	Not Applicable
Battelle Memorial Institute Columbus, OH	In Situ Electroacoustic Soil Decontamination	Satya Chauhan 614-424-4812	Randy Parker 513-569-7271	Soil	Heavy Metals	Not Applicable
BioTrol® Eden Prairie, MN	Methanotrophic Bioreactor System	Durell Dobbins 320-942-8032	Randy Parker 513-569-7271	Water	Not Applicable	Halogenated Hydrocarbons
BWX Technology, Inc. (An affiliate of Babcock & Wilcox Co.)*** Lynchburg, VA	Cyclone Furnace	Jerry Maringo 330-860-6321	Laurel Staley 513-569-7863	Solids, Soil, Sludge	Nonspecific, Low-Level Radionuclides, Heavy Metals	Nonspecific Organics
COGNIS, Inc. Santa Rosa, CA	Biological/Chemical Treatment	Bill Fristad 248-583-9300	Steven Rock 513-569-7149	Soil, Sludge, Sediment	Heavy Metals	Nonspecific Organics
COGNIS, Inc. *** Boss, MO	TERRAMET® Soil Remediation System	Lou Magdits 573-626-3476	Michael Royer 732-321-6633	Soil, Sludge, Sediment	Lead, Heavy Metals	Not Applicable
Colorado Department of Public Health & Environment*** Denver, CO	Constructed Wetlands- Based Treatment	James Lewis 303-692-3390	Edward Bates 513-569-7774	Acid Mine Drainage	Metals	Not Applicable

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Concurrent Technologies (formerly Center for Hazardous Materials Research) Pittsburgh, PA	Acid Extraction Treatment System	Brian Bosilovich 412-577-2662 ext. 230	George Moore 513-569-7991	Soil	Heavy Metals	Not Applicable
Concurrent Technologies (formerly Center for Hazardous Materials Research) Pittsburgh, PA	Organics Destruction and Metals Stabilization	Brian Bosilovich 412-577-2662 ext. 230	Randy Parker 513-569-7271	Soil, Sediment	Heavy Metals	Nonspecific Organics
Concurrent Technologies (formerly Center for Hazardous Materials Research) Pittsburgh, PA	Smelting Lead-Containing Waste	Brian Bosilovich 412-577-2662 ext. 230	Bill Fritch 513-569-7659	Solids, Lead-Containing Waste	Lead	Not Applicable
Eberline Services, Inc. (formerly Thermo Nutech, Inc./TMA Thermo Analytical, Inc.) Albuquerque, MN	Segmented Gate System	Joseph W. Kimbrell 505-262-2694	Vince Gallardo 513-569-7176	Soil, Sludge, Sediment, Sand	Gamma-Ray Emitting Radionuclides	Not Applicable
Electrokinetics, Inc.** Baton Rouge, LA	Electrokinetic Soil Processing	Elif Chiasson 225-753-8004	Randy Parker 513-569-7271	Soil, Sediment	Heavy Metals and Other Inorganics, Radionuclides	Nonspecific Organics
Electrokinetics, Inc. Baton Rouge, LA	In Situ Bioremediation by Electrokinetic Injection	Elif Chiasson 225-753-8004	Randy Parker 513-569-7271	Soil, Sludge, Sediment	Heavy Metals	Nonspecific Organics
Energia, Inc. Princeton, NJ	Reductive Photo-Dechlorination Treatment	Dr. Moshe Lavid 609-799-7970	Michelle Simon 513-569-7469	Liquids, Solids, Gas	Not Applicable	Volatile Chlorinated Hydrocarbons
Energia, Inc. Princeton, NJ	Reductive Thermal and Photo-Thermal Oxidation Processes for Enhanced Conversion of Chlorocarbons	Dr. Moshe Lavid 609-799-7970	Michelle Simon 513-569-7469	Air Streams	Not Applicable	Volatile Chlorinated Hydrocarbons
Energy and Environmental Research Corporation** Irvine, CA	Hybrid Fluidized Bed System	Richard Koppang 949-859-8851	Teri Richardson 513-569-7949	Soil, Sludge	Volatile Inorganics, Metals	Nonspecific Organics

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Energy and Environmental Research Corporation Irvine, CA	Reactor Filter System	Neil Widmer 949-859-8851	Steven Rock 513-569-7149	Gas Emissions	Volatile Toxic Metals	Condensed-Phase Organics
Environmental Biotechnologies, Inc. Lodi, CA	Microbial Composting Process	Douglas Munnecke 209-333-4575	Randy Parker 513-569-7271	Soil, Sediment	Not Applicable	PAHs
Ferro Corporation Independence, OH	Waste Vitrification Through Electric Melting	Emilio Spinosa 216-641-8585	Randy Parker 513-569-7271	Soil, Sludge, Sediment	Nonspecific Inorganics	Nonspecific Organics
Gas Technology Institute** Des Plaines, IL	Chemical and Biological Treatment	Tom Hayes 847-768-0722	Randy Parker 513-569-7271	Soil, Sludge, Groundwater, Surface Water	Not Applicable	Nonspecific Organics
Gas Technology Institute** Des Plaines, IL	Fluid Extraction-Biological Degradation Process	Robert Paterek 847-768-0722	Valdis Kukainis 513-569-7655	Soil, Sludge, Sediment	Not Applicable	Nonspecific Organics
Gas Technology Institute Des Plaines, IL	Fluidized-Bed/Cyclonic Agglomerating Combustor	Amir Rehmat 847-544-0588 Michael Mensinger 847-544-0602	Valdis Kukainis 513-569-7655	Solid, Liquid, Gas, Soil, Sludge	Nonvolatile Inorganics	Nonspecific Organics
Gas Technology Institute Des Plaines, IL	Supercritical Extraction/Liquid Phase Oxidation	Anil Gayal 847-544-0605 Michael Mensinger 847-544-0602	Valdis Kukainis 513-569-7955	Soil, Sludge	Not Applicable	PAHs, PCBs, Other Organics
General Atomics, Nuclear Remediation Technologies Division San Diego, CA	Acoustic Barrier Particulate Separator	Anthony Gattuso 858-455-3000 ext. 2910	Randy Parker 513-569-7271	Gas Streams	Metal and Radionuclide Particles	Nonspecific Organic Particles
Geo-Microbial Technologies, Inc. Ochelata, OK	Metals Release and Removal from Wastes	Donald Hitzman 918-535-2281	Randy Parker 513-569-7271	Sludge, Soil	Metals	Nonspecific Organics
Harding ESE, A Mactec Company (formerly ABB Environmental Services, Inc.) Wakefield, MA *	Two-Zone, Plume Interception, In Situ Treatment Strategy	Willard Murray 781-245-6606	Randy Parker 513-569-7271	Groundwater, Soil	Inorganic Chloride	Chlorinated and Nonchlorinated Organic Compounds

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High Voltage Environmental Applications, Inc. Miami, FL	High-Energy Electron Beam Irradiation	William Cooper 305-593-5330 Paul Torantore 716-321-4220	Franklin Alvarez 513-569-7631	Soil, Sediment, Sludge, Groundwater	Not Applicable	Pesticides, Insecticides, Petroleum Residues, PCBs
IT Corporation Knoxville, TN	Batch Steam Distillation and Metal Extraction	Stuart Shealy 865-690-3211	Randy Parker 513-569-7271	Soil, Sludge, Sediment	Heavy Metals, Other Inorganics	Nonspecific Organics
IT Corporation Cincinnati, OH	Chelation/Electro-deposition of Toxic Metals from Soils	Radha Krishnan 513-782-4700	George Moore 513-569-7991	Soil, Sludge	Heavy Metals	Not Applicable
IT Corporation, Knoxville, TN	Mixed Waste Treatment Process	Ed Alperin 865-690-3211	Douglas Grosse 513-569-7844	Soil, Sludge	Nonspecific Inorganics, Radionuclides	Nonspecific Organics
IT Corporation (formerly OHM Remediation Services Corporation) Knoxville, TN	Oxygen Microbubbles In Situ Bioremediation	Douglas Jerger 865-690-3211	Randy Parker 513-569-7271	Groundwater	Not Applicable	VOC, SVOC, Petroleum Hydrocarbons
IT Corporation Knoxville, TN	Photolytic and Biological Soil Detoxification	Duane Graves 865-690-3211	Randy Parker 513-569-7271	Soil	Not Applicable	PCBs, Pesticides, Dioxins, PAHs
IT Corporation Knoxville, TN	Tekno Associates Bioslurry Reactor	Kandi Brown 865-690-3211	Valdis R. Kukainis 513-569-7955	Soil, Sludge	Not Applicable	PAHs
KSE, Inc. Amherst, MA	Adsorption-Integrated-Reaction Process	Dr. J.R. Kittrell 413-549-5506	Vince Gallardo 513-569-7176	Air Streams	Not Applicable	VOCs
Kvaerner Energy & Environment (formerly Davy International Environmental Division) Cleveland, England	Chemical Treatment	Simon Clarke 011-44-1642-602221	Vince Gallardo 513-569-7176	Soil	Metals	PCBs, Chlorinated Solvents, Pesticides
Matrix Photocatalytic Inc.*** London, Ontario, Canada	Photocatalytic Air Treatment	Bob Henderson 519-660-8669	Richard Eilers 513-569-7809	Air	Not Applicable	VOCs, SVOCs
Matrix Photocatalytic Inc.*** London, Ontario, Canada	Photocatalytic Aqueous Phase Organic Destruction	Bob Henderson 519-660-8669	Richard Eilers 513-569-7809	Wastewater, Groundwater, Process Water	Nonspecific Inorganics	Most Organics

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Media & Process Technology (formerly Aluminum Company of America and ALCOA Separation Technology, Inc.)* Pittsburgh, PA	Bioscrubber	Paul Liu 412-826-3711	Paul dePercin 513-569-7797	Airstreams from Soil, Water, and Air Decontamination Processes	Not Applicable	Most Volatile Organics
Membrane Technology and Research, Inc. Menlo Park, CA	VaporSep® Membrane Process	Marc Jacobs Doug Gottschlich 650-328-2228	Paul dePercin 513-569-7797	Gaseous Waste Streams	Not Applicable	Halogenated and Nonhalogenated Organics
Metso Minerals, Industries, Inc. (formerly Svedala Industries, Inc.) Danville, PA	<u>PYROKILN</u> <u>THERMAL</u> <u>ENCAPSULATION</u> Process	Bob Faulkner 570-275-3050 ext. 7758	Marta K. Richards 513-569-7692	Soil, Sludge, Sediment	Metals	Nonspecific Organics
Montana College of Mineral Science and Technology Butte, MT	Air-Sparged Hydrocyclone	Courtney Young 406-496-4158	Ed Bates 513-569-7774	Solids (Fine Particles)	Metals	Not Applicable
Montana College of Mineral Science and Technology Butte, MT	Campbell Centrifugal Jig	Courtney Young 406-496-4158	Randy Parker 513-569-7271	Soil, Solids	Heavy Metals	Not Applicable
New Jersey Institute of Technology Newark, NJ	GHEA Associates Process	Itzhak Gotlieb 201-226-4642	Annette Gatchett 513-569-7697	Soil, Sludge, Sediment, Water, Industrial Effluent	Heavy Metals	Most Organics
New Jersey Institute of Technology Hazardous Substances Management Research Center (formerly Hazardous Substance Management Research Center at New Jersey Institute of Technology and Rutgers, The State University of New Jersey) Newark, NJ	Pneumatic Fracturing and Bioremediation Process	John Schuring 973-596-5849	Randy Parker 513-569-7271	Soil	Not Applicable	Biodegradable Organics
Pharmarcia Corporation (formerly Monsanto/DuPont) St. Louis, MO	Lasagna™ In Situ Soil Remediation	Michael Roulier 513-569-7796 Sa Ho 314-694-5179	Wendy Davis-Hooever 513-569-7206	Groundwater, Soils	Nonspecific Inorganics	Nonspecific Organics

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Phytokinetics, Inc. North Logan, UT	Phytoremediation of Contaminated Soils	Dr. Ari Ferro 801-750-0985	Steven Rock 513-569-7149	Soil	Not Applicable	PCP, PAHs, Chlorinated Solvents, Insecticides, Nitroaromatic Explosives
Pintal Systems, Inc. Denver, CO	Biominaleralization of Metals	Leslie Thompson 303-307-8464	Randy Parker 513-569-7271	Soil, Sludge, Sediment, Acid Mine Drainage	Heavy Metals	Not Applicable
PSI Technologies, A Division of Physical Sciences Inc. Andover, MA	Metals Immobilization and Decontamination of Aggregate Solids	Joseph Morency 978-689-0003	Mark Meckes 513-569-7348	Soil, Sludge, Sediment	Heavy Metals, Volatile Metals	Low Volatile Organics, Organometallics
Pulse Sciences, Inc. San Leandro, CA	X-Ray Treatment of Aqueous Solutions	Vernon Bailey 510-632-5100, ext. 227	Vince Gallardo 513-569-7176	Groundwater, Liquid, Leachate	Not Applicable	VOCs, SVOCs
Pulse Sciences, Inc. San Leandro, CA	X-Ray Treatment of Organically Contaminated Soils	Vernon Bailey 510-632-5100 ext. 227	George Moore 513-569-7991	Soil	Not Applicable	VOCs, SVOCs, PCBs
RECRA Environmental, Inc. (formerly Electro-Pure Systems, Inc.) Amherst, NY	Alternating Current Electrocoagulation Technology	Bob Havas 716-636-1550	Randy Parker 513-569-7271	Groundwater, Wastewater, Leachate	Heavy Metals	Petroleum By-products, Coal-Tar Derivatives
Remediation Technologies Inc. Ashland, OR	Biofilm Reactor for Chlorinated Gas Treatment	Hans Stroo 541-482-1404	Randy Parker 513-569-7657	Gas	Not Applicable	Volatile Chlorinated Hydrocarbons
Resource Management & Recovery (formerly Bio-Recovery Systems, Inc.)** Las Cruces, NM	AlgaSORB [®] Biological Sorption	Michael Hosea 505-382-9228	Randy Parker 513-569-7657	Groundwater, Leachate, Wastewater	Metals, Uranium	Not Applicable
State University of New York at Oswego, Environmental Research Center Oswego, NY	Electrochemical Peroxidation of PCB-Contaminated Sediments and Waters	Ronald Scudato Jeffrey Chiarenzelli 315-341-3639	Randy Parker 513-569-7271	Soil, Slurries, Leachates	Not Applicable	PCBs, Other Chlorinated Organics, VOCs, SVOCs

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Thermatrix, Inc. (formerly Purus, Inc.)** San Jose, CA	Photolytic Oxidation Process	Ed Greene 865-593-4606 ext. 3206	Norma Lewis 513-569-7665	Soil, Groundwater	Not Applicable	VOCs
Trinity Environmental Technologies, Inc. Mound Valley, KS	PCB- and Organochlorine-Contaminated Soil Detoxification	Duane Koszalka 316-328-3222	Paul dePercin 513-569-7797	Soil, Sludge, Sediment	Not Applicable	PCBs, PCP, Other Chlorinated Hydrocarbons
United Kingdom Atomic Energy Authority (formerly AEA Technology Environment) Oxfordshire, England	Soil Separation and Washing Process	Mike Pearl 011-44-1235-435-377	Mary Stinson 723-321-6683	Soil, Sludge, Sediment	Metals	Petroleum Hydrocarbons, PAHs
University of Dayton Research Institute Dayton, OH	Photothermal Detoxification Unit	John Graham 937-229-2846	Annette Gatchett 513-569-7955	Gaseous Waste Streams	Not Applicable	Nonspecific Volatile Organics
University of Houston Houston, TX	Concentrated Chloride Extraction and Recovery of Lead	Dennis Clifford 713-743-4266	Terry Lyons 513-569-7589	Soil	Lead	Not Applicable
University of South Carolina Columbia, SC	In Situ Mitigation of Acid Water	Gwen Geidel 803-777-5340	Roger Wilmoth 513-569-7509	Acid Mine Drainage	Metals	Not Applicable
University of Washington Seattle, WA	Adsorptive Filtration	Mark Benjamin 206-543-7645	Norma Lewis 513-569-7665	Groundwater, Wastewater, Leachate	Metals, Other Nonspecific Inorganics	Not Applicable
University of Wisconsin-Madison Madison, WI	Photoelectrocatalytic Degradation and Removal	Marc Anderson 608-262-2674 Charles Hill, Jr. 608-263-4593	Vince Gallardo 513-569-7176	Groundwater, Aqueous Waste Streams	Heavy Metals	Dissolved Organics
UV Technologies, Inc. (formerly Energy and Environmental Engineering, Inc.)** Chattam, NJ	UV CATOX™ Process	Donald Habertroh 937-635-6067	Ronald Lewis 513-569-7856	Groundwater, Wastewater	Not Applicable	Various Organics
Vortec Corporation *** Collegetown, PA	Oxidation and Vitrification Process	James Hnat 610-489-2255	Teri Richardson 513-569-7949	Soil, Sludge, Sediment	Metals, Other Nonspecific Inorganics	Nonspecific Organics

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Western Product Recovery Group, Inc. Houston, TX	Coordinate, Chemical Bonding, and Adsorption Process	Donald Kelly 210-602-1743	Vince Gallardo 513-569-7176	Soil, Sludge, Sediment	Heavy Metals	Nonspecific Organics
Western Research Institute*** Laramie, WY	Contained Recovery of Oily Wastes	Lyle Johnson 307-721-2281	Richard Eilers 513-569-7809	Soil, Groundwater	Not Applicable	Coal Tars, Petroleum By-Products, PCP, Chlorinated Solvents
Roy F. Weston, Inc. West Chester, PA	Amborsorb® 563 Adsorbent	Joe Martino 610-701-6174 Barbara Kinch 215-537-4060	Randy Parker 513-569-7271	Groundwater, Wastewater	Not Applicable	VOCs
ZENON Environmental Inc. Burlington, Ontario, Canada	Cross-Flow Pervaporation System	Chris Lipski 905-965-3030 ext. 3250	Ronald Turner 513-569-7775	Groundwater, Leachate, Wastewater	Not Applicable	Solvents, Degreasers, Gasoline, other VOCs

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