NCERQA Funded
Science to Achieve Results (STAR)
Research Projects:

Groundwater Remediation/Treatment

NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH

Office of Research and Development
U.S. Environmental Protection Agency

Tabular Query Results of NCER Program and Solicitation Information

67 Abstracts are listed

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Amount	Proposed Start Date
1	none	Innovative Technologies for Groundwater and Soil Remediation	NORTHEAST HSRC	Schuring	none	January 1, 1991 - December 31, 2000
2	none	In-Situ Biological Treatment of Aromatics in Groundwater	Western Region HSRC	Reinhard, McCarty	none	January 1, 1991 - December 31, 2000

3	none	Modeling of the Use of Plants in the Remediation of Soil and Groundwater Contaminated by Hazardous Organic Substances	GREAT PLAINS ROCKY MOUNTAIN HSRC	Tracy, Davis, Erickson, Schnoor	none	January 1, 1991 - December 31, 2000
4	R826162	Natural Remediation of Contaminated Soil and Ground Water by Barometric Pumping	University of Virginia	James A. Smith	$360,027	January 1, 1998 - December 31, 2000
5	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	$205,000	October 1, 1997 - September 30, 2000
6	none	Deep-Rooted Poplar Trees as an Innovative Treatment Technology for Pesticide and Toxic Organics Removal from Groundwater	Great Plains/Rocky Mountain HSRC	Schnoor, Licht	none	January 1, 1991 - December 31, 2000
7	none	Design and Operation of Biological Activated Carbon Adsorption Systems	Great Lakes and Mid-Atlantic HSRC	Voice	none	January 1, 1991 - December 31, 2000
8	none	Modeling surfactant mobilization of entrapped organic liquids in groundwater systems	GREAT LAKES AND MID-ATLANTIC HSRC	Abriola, Weber	none	January 1, 1991 - December 31, 2000
9	none	Three Dimensional Characterization of Subsurface Contamination	NORTHEAST HSRC	McLaughlin	none	January 1, 1991 - December 31, 2000

10	none	Demonstration of an Interceptor Trench Technology for the Bioremediation of a Pentachlorophenol-Contaminated Ground Water	Oregon State University	Sandra Woods	none	none
11	none	Dispersion Modeling of Volatile Organic Emissions from Ground-Level Treatment Systems	WESTERN REGION HSRC	Hildemann, Roberts	none	January 1, 1991 - December 31, 2000
12	104LUB7136	Development of an Air-Stripping and UV/H2O2 Oxidation Integrated Process To Treat a Chloro-Hydrocarbon-Contaminated Ground Water	Lamar University	Ku-Yen Li	none	none
13	none	Development and Verification of a Numerical Model to Predict the Fate and Transport of Chlorinated Phenols in Groundwater	WESTERN REGION HSRC	Istok, Woods	none	January 1, 1991 - December 31, 2000
14	none	Development of a Systematic Methodology for Optimally Designing Vegetative Systems for Remediating Contaminated Soil and Ground Water	South Dakota State University	J.C. Tracy, T.J. Van Lent, and V.R. Schaefer	none	none
15	R824365	Simulation of the Kinetic Sorption and Desorption of Trichloroethene (TCE) and Surfactant in Ground Water at Picatinny Arsenal, New Jersey	University of Virginia; U.S. Geological Survey	James A. Smith and Thomas E. Imbrigiotta	$79,000	October 1, 1995 - April 1, 1997

16	R826614	Multi-Objective Decision-Making for Environmental Remediation	Michigan Technological University1, Northern Michigan University2, US EPA3	Alex Mayer1, Jeff Horn2, Carl Enfield3	$253,571	September 1, 1998 - August 31, 2001
17	none	The Remediative Role of Deep-Rooted Poplar Trees in Adding Organic Carbon to the Soil for Pesticides and Toxic Organic Removal	Great Plains/Rocky Mountain HSRC	Licht, Schnoor	none	January 1, 1991 - December 31, 2000
18	none	Evaluation of Biosparging Performance and Process Fundamentals for Site Remediation	Utah State University	R.R. Dupont, D.L. Sorensen, and W.J. Doucette	none	none
19	R827112	Dissolution Dynamics of Multiple Component NAPLs In Aqueous and Surfactant/Cosolvent Systems	University of Arizona	Mark L. Brusseau	$362,453	September 1, 1998 - August 31, 2001
20	none	Aquifer Remediation Design in the Presence of Kinetic Limitations	Stanford University	Steven M. Gorelick	none	none
21	none	Development, Characterization, and Performance Evaluation of Ferrous-Ferric Oxide Adsorbents for Metal Removal from Contaminated Groundwater	Oregon State University (Supported by R2D2 Program)	Peter O. Nelson	none	none

22	094UCF2338	Hydrodynamic Modeling of Leachate Recirculating Landfill	University of Central Florida	Debra R. Reinhart, Basel Al-Yousfi	none	none
23	none	Pollution Prevention and Remediation through Photocatalytic Oxidation Processes	Michigan Technological University	J.C. Crittenden, D.W. Hand, V.H. Selzer, D.L. Perram, Y. Zhang, and B. Liu	none	none
24	R824785	Traveling Wave Behavior During Subsurface Transport of Biologically Reactive Contaminants Implications for In Situ Bioremediation	University of Illinois at Urbana-Champaign	Albert J. Valocchi	$200,000	January 1996 - December 1998
25	GF-95-02150	Intrinsic Bioremediation: Process Demonstration and Evaluation	The University of Texas at Austin	Derek Williamson	$31,500	8/15/95
26	094UHH3290	Photo-Oxidation by H2O2/VisUV of Off-Gas Atmospheric Emissions from Industrial and Environmental Remediation Sources	University of Houston	H. W. Prengle, Jr., James M. Symons	none	none
27	none	Field Testing of A Solar Assisted System for Detoxification of Water	Michigan Technological University	J.C. Crittenden, D.W. Hand, and Yin Zhang,	none	none
28	none	In-Situ Bioremediation of Organic Compounds: Coupling of Mass Transfer and Biodegradation	New Jersey Institute of Technology; John Hopkins University	Dr. Gordon A. Lewandowski; Dr. Edward J Bouwer	none	none

29	none	TCE Ground Water Attenuation in Severe Northern Climates	Utah State University	R.R. Dupont, D.L. Sorensen, M. Kemblowski, and D. Smith	none	none
30	R827126	An Efficient Reliability-Based Approach to Aquifer Remediation Design	Northwestern University	Howard W. Reeves, Charles H. Dowding, and Takeru Igusa	$142,198	September 1, 1998 - August 31, 2000
31	R827117	Improving the Performance of Permeable Reactive Barriers: Enhancing Reactivity and Longevity through Understanding of Surface Oxides	Oregon Graduate Institute1 and Oregon State University2	Paul G. Tratnyek1 and John C. Westall2	$374,252	October 1, 1998 - September 30, 2001
32	none	The "Bubble Wall": A Passive In Situ System for Treatment and/or Containment of Contaminated Groundwater	Oregon State University; Stanford University	Jonathan D. Istok, Virginia A. Fry, John S. Selker; Steven M. Gorelick	none	none
33	R823579	Dissolution Kinetics of Single and Multicomponent NAPL Pools in Saturated Three-dimensional Porous Media	University of California, Irvine	Constantinos V. Chrysikopoulos	$315,368	September 1995 - August 1998
34	R825223	Iron Mediated Reductive Transformation of Chlorinated Organic Compounds and Oxidized Metal Species in Groundwater Environments	University of Arizona	James Farrell	$500,000	October 1, 1996 - September 30, 2001

35	R823420	Biostimulation of BTX Degradation with Environmentally Benign Aromatic Substrates	The University of Iowa	Pedro J. Alvarez	$246,342	October 1995 - September 1998
36	none	Evaluation and Modeling of Subsurface Biobarrier Formation and Persistence	Montana State University; University of Wyoming	A.B. Cunningham; B.M. Chen	none	none
37	none	Field Test of In-Situ Vapor Stripping for Removal of VOCS from Groundwater	Stanford University	Steven M. Gorelick	none	none
38	R826163	Fenton-Like Reductions for the Enhanced Desorption and Degradation of Biorefractory Contaminants	Washington State University, University of Idaho	Richard J. Watts, Amy L. Teel, Thomas F. Hess	$307,481	February 1, 1998 - January 31, 2001
39	GF-95-00575	Reductive Dehalogenation at Electrodes	New Mexico Highlands University	Richard Presley	$23,830	May, 1995
40	none	In Situ Treatment of Chlorinated Solvents	Stanford University	Perry L. McCarty	none	none
41	R827133	Understanding Seasonal Variation of Bioavailability of Residual NAPL in the Vadose Zone	University of California, Santa Barbara	Patricia Holden and Arturo A. Keller	$425,000	October 1, 1998 - September 30, 2001

42	none	Removal of VOCs from Contaminated Groundwater and Soils by Pervaporation	Chemistry and Environmental Science, New Jersey Institute of Technology	Professor Kamalesh K. Sirkar, Dr. Ibrahim Abou-Nemeh, Ms. Sukla Chandra, Mr. Ashish Saraf	none	none
43	R827114	A Method for Characterizing the Vadose Zone and Monitoring Solute Transport	University of Arizona	James Yeh	$359,955	October 1, 1998 - September 30, 2001
44	none	Full-Scale Evaluation of In Situ Bioremediation of Chlorinated Solvent Groundwater Contamination	Stanford University	Perry L. McCarty, Mark N. Goltz, and Gary D. Hopkins	none	none
45	R824875	Reversible Inactivation of Viruses in Groundwater	El Paso Community College; Texas A&M Agricultural Research and Extension Center	Maria E. Alvarez and Surresh Pillai (Co-PI)	$176,939	September 15, 1996 - September 14, 1998
46	R826157	Effect of Heterogeneities on Instability and Fingering of DNAPLS Below the Water Table	University of Arizona	Shlomo P. Neuman and James E. Smith	$330,000	March 1, 1998 - February 28, 2001

47	U91-5351	The Efficacy of Oxidative Coupling for Promoting In-Situ Immobilization of Phenolic Compounds in Contaminated Soil and Sediment Systems	University of Michigan, Environmental and Water Resources Engineering and Chemical Engineering	T. Michael Keinath II	34,000	9/8/98
48	none	Characterization of Subsurface NAPL Distributions at Heterogeneous Field Sites	Massachusetts Institute of Technology	Dennis McLaughlin and Prof. Dale Morgan	none	none
49	none	Using Trainable Networks for the Three-Dimensional Characterization of Subsurface Contamination	none	Ibrahim N. Tansel	none	none
50	none	Field Testing of Palladium-Catalyzed Hydrodehalogenation for Chlorinated Hydrocarbon Removal from Groundwater	Stanford University	Martin Reinhard and Paul V. Roberts	none	none
51	104UTA0454	A Risk-Based Decision Analysis Approach for Aquifers Contaminated with DNAPLs	University of Texas	Daene C. McKinney, Robert B. Gilbert	none	none
52	R826650	Dissolved Humic Substances in Enhanced Dissolution of DNAPLs	University of Utah	William P. Johnson	$285,595	September 1, 1998 - August 31, 2001

53	104LSU0435	Sonochemical Treatment of Hazardous Organic Compounds II: Process Optimization and Pathway Studies	Louisianna State University	Thomas Junk, W. James Catallo	none	none
54	none	Evaluation of Strategies for Full Scale Bioremediation of the Seal Beach Site Using Anaerobic Microbial Processes	Stanford University	Martin Reinhard, Gary Hopkins, and Peter Kitanidis	none	none
55	R826268	Pore Scale Determination of the Rate of NAPL Dissolution or Volatilization	University of California, Santa Barbara	Arturo A. Keller	$133,179	October 1, 1997 - September 30, 1999
56	R823402	Characterization and Kinetics of Contaminant Oxidation and Hydrogen Peroxide Decomposition in the Presence of Subsurface Material	The University of Iowa	Richard L. Valentine, Ph.D.	$189,242	none
57	R825418	Effect of Spatial Heterogeneity on the Natural Bioattenuation of Dissolved Hydrocarbons	North Carolina State University	Morton A. Barlaz and Robert C. Borden	$449,052	October 28, 1999 - October 27,1999
58	none	Microbial Degradation of Toluene Under Sulfate-Reducing Conditions--The Role of Iron	Stanford University	Martin Reinhard	none	none

59	R8255961	Bioavailability and Biostabilization of Multicomponent Nonaqueous Phase Liquids in the Subsurface	University of Colorado	Tissa Illangasekare, Anuradha Ramaswami, and Anglea Bielefeldt	$433,441	October 1, l997 - September 30, 2000
60	R826179	Virus Attachment, Release, and Inactivation During Groundwater Transport	University of Colorado at Boulder, University of California at Los Angeles, and U.S. Geological Survey	Joseph N. Ryan, Menachem Elimelech, and Ronald W. Harvey	$372,392	January 13, 1998 - January 12, 2001
61	R821114	Reformulated Gasoline Transport and Clean-up of Spills to the Subsurface	Clarkson University, Potsdam, NY	Susan E. Powers	$240,479	October 1, 1995 - September 30, 1998
62	none	Use of Poplar Trees in Remediating Heavy Metal Contaminated Sites	none	Pierzynski, Tracy, Davis, Reddi, Erickson, Schnoor	none	none
63	none	Biochemical Mechanisms of PCE Dehalogenation by Strain MS-1, and its Potential for In-situ Bioaugmentation	Stanford University (Supported by R2D2 Program)	Pramod K. Sharma and Perry L. McCarty	none	none
64	R827116	Theoretical Evaluation of the Interfacial Area between Two Fluids in Soil	The University of Texas at Austin	Steven L. Bryant	$246,378	October 1, 1998 - September 30, 2001

65	R826189	Physiochemical and Microbial Controls on the Speciation and Release of Arsenic into Ground and Surface Waters	University of Wisconsin	Robert J. Hamers and Jillian F. Banfield	$312,496	January 1, 1998 - December 31, 2000
66	104UCF0423	Sequential Environments for Enhanced Bioremediation of Chlorinated Aliphatic Hydrocarbons	University of Central Florida	Andrew A. Randall, A. Basel Al-Yousfi	none	none
67	none	Development of a Phytoremediation Handbook: Considerations for Enhancing Microbial Degradation in the Rhizosphere	none	Todd A. Anderson	none	none

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