SRP-Funded Sediment Research

The Superfund Research Program (SRP) funds research related to various aspects of contaminated sediments including:

- Remediation Approaches
- Detection Technologies
- Fate and Transport Modeling
- Bioavailability and Ecotoxicity
- Ecological and Human Risk Assessments

The following are SRP-funded projects related to contaminated sediments that are recent or ongoing.

Arizona State University

In Situ Sampling Tool for Assessing Bioavailability and Toxicity of Sediments
Principal Investigators: Rolf Halden and Nancy Denslow
Grant Number: R01ES020889

Novel Approaches to Studying the *in situ* Bioremediation of Complex Mixtures
Principal Investigator: Rolf Ulrich Halden
Grant Number: R01ES015445

Brown University

Low Concentration Vapor Exposures in Complex Systems and the Problem of Vapor Intrusion
Project Leaders: Eric M. Suuberg, Kelly Pennell
Grant Number: P42ES013660

Colorado School of Mines

Remediation Effectiveness for Mining Sites: Hysteresis and Metal Mixtures Effect
Principal Investigator: James Ranville
Grant Number: R01ES020917

Columbia University

Mobilization of Anthropogenic As in Groundwater
Project Leader: Steven N. Chillrud (Lamont Doherty Earth Observatory of Columbia University)
Grant Number: P42ES010349

Dartmouth College

Bioaccumulation and Tropic Transfer of Hg in Aquatic Food Webs
Project Leader: Celia Y. Chen
Grant Number: P42ES007373

Duke University
Nanoparticle Based Strategies for Remediation of Contaminated Sediments: Implications, Synergies, and Antagonistic Effects with Associated Nano-Bioremediation
Project Leaders: Mark R. Wiesner, Claudia Gunsch, and Heileen Hsu-Kim
Grant Number: P42ES010356

Medical University of South Carolina
Integrating Microbial Biostimulation and Electrolytic Aeration to Degrade POPs
Program Director: Harold D. May
Grant Number: R01ES016197

Michigan State University
Molecular Insight into Polyaromatic Toxicant Degradation by Microbial Communities
Project Leader: James M. Tiedje
Grant Number: P42ES004911

Missouri University of Science and Technology
In-situ Sediment Remediation Using Benthic Waterjet Amendment
Program Director: Joel G. Burken
Grant Number: R01ES016158

New York University School of Medicine
Mechanisms of Resistance of Aquatic Vertebrate Populations to Mixtures
Program Director: Isaac I. Wirgin
Grant Number: R01ES015447

Northeastern University
A Reactive Mat to Remediate Contaminated Sediments and Reduce Health Risks
Program Director: Thomas C. Sheahan
Grant Number: R01ES016205

Oregon State University
Biological Response Indicator Devices for Gauging Environmental Stressors (BRIDGES)
Project Leader: Kim Anderson
Grant Number: P42ES016465

Stanford University
Activated Carbon as a Multifunctional Amendment to Treat PCBs and Mercury
Program Director: Richard G. Luthy
Grant Number: R01ES016143

Stony Brook University - SUNY
Sources, Fate, and Identification of Endocrine Disrupting Compounds in the Hudson
Program Director: Bruce Brownawell
Grant Number: R01ES015451

University of California-Merced
Sequestration and Immobilization of Metal and Metalloid Contaminants in Sediments
Program Director: Peggy A. O'Day
Grant Number: R01ES016201

University of California-Riverside
Development of Stable Isotope Based Methods to Predict Bioavailability of Hydrophobic Organic Contaminants in Sediments
Principal Investigators: Jay Gan and Daniel Schlenk
Grant Number: R01ES020921

University of Kentucky
Sensing Superfund Chemicals with Recombinant Systems
Project Leaders: Sylvia Daunert, Leonidas G. Bachas
Grant Number: P42ES007380

University of Maryland-Baltimore County
Combining Bioavailability Assays with Modeling to Predict PCBs in Fish After Remediation
Principal Investigators: Upal Ghosh, Allen Place (University of Maryland)
Grant Number: R01ES020941

Pilot-scale Research of Novel Amendment Delivery for *in situ* Sediment Remediation
Principal Investigator: Upal Ghosh
Grant Number: R01ES016182

University of Texas-Austin
Funnel and Gate Innovations - Stabilization and Treatment of Contaminated Sediments
Program Director: Danny Reible
Grant Number: R01ES016154

Virginia Institute of Marine Science
A Real-Time Antibody-Based Field Assay to Predict Containment Bioavailability in Sediments
Principal Investigators: Michael Unger, Stephen Kaattari, and Wolfgang Vogelbein
Grant Number: R01ES020949

For a complete list of SRP research please refer to the SRP Search Tool (http://tools.niehs.nih.gov/srp/search/index.cfm).

Updated 5/2012

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health