

**EMERGING TECHNOLOGIES
FOR THE REMEDIATION OF METALS IN SOILS**

ELECTROKINETICS

-FINAL-

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**Prepared by
Interstate Technology and Regulatory Cooperation
Work Group
Metals in Soils Work Team
Emerging Technologies Project**

EXECUTIVE SUMMARY

Electrokinetic remediation is a developing technology for in-situ removal of heavy metals and radionuclides from contaminated soil. This document provides general information on the technology, including background, applicability and potential advantages and limitations of electrokinetic remediation techniques. In addition, this technology overview discusses current approaches to electrokinetic remediation and identifies future research and development needs. Data from several case studies are presented, as are regulatory and stakeholder concerns related to electrokinetic technology implementation at contaminated sites. While the technology can be applied to treat a variety of contaminants, this document focuses mainly on the remediation of metals in soils.

Membership on this work team was open to all ITRC members. Participants with expertise or interest in metals treatment technologies in their states elected to join the team and contributed consistently to the development of this work product. Members of the RTDF (Remediation Technologies Development Forum) IINERT technology team (In-Place Inactivation and Natural Ecological Restoration Technologies) also participated on this team and helped to provide an industry perspective. A representative from the U.S. Army Corps of Engineers and the Department of Energy actively participated on the team. Support was also provided by the United States Environmental Protection Agency and the Department of Defense. Input regarding public and community concerns for these technologies was provided by ITRC public stakeholder representatives.