

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

PHYTOREMEDIATION

-FINAL-

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

EXECUTIVE SUMMARY

Phytoremediation is the treatment of contaminated soils, sediments, and groundwater by plants. Phytoremediation is applicable for the treatment and / or removal of organic or inorganic contaminants in soil or groundwater. This document focuses on issues related to the remediation of metals in soils. The document outlines the technology and its applicability to sites and contaminants. It also explores several approaches to phytoremediation, as well as areas where future research is needed. The document presents regulatory and stakeholder concerns, and details preliminary cost figures from a variety of sources.

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 in 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.