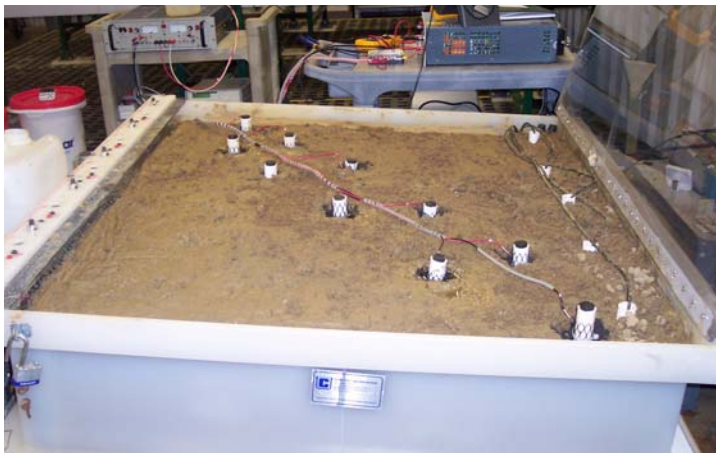
FARADAYIC Process and Soil Remediation - Electroosmosis

Objective:

This project demonstrated the feasibility of using the patented FARADAYIC Process to control the flow of water in soil contaminated with metal ions.



Summary:

The FARADAYIC Process is used to move water around a contaminated soil pack to provide cost-effective, in-situ containment of polluted sites. The FARADAYIC Process combines enhanced electroosmosis with an advanced electrode design to 1) increase the transport of water by enhanced diffusion, and 2) control the soil pH around the electrodes. The technical feasibility of controlling water through soil is being demonstrated at a pilot-scale in the laboratory scale. Field trials are anticipated to begin soon.

Background:

The patented FARADAYIC Process is an electrochemical technology that utilizes a controlled electric field to solve environmentally-challenging problems. Since the FARADAYIC Process is electrically mediated, it does not require aggressive chemicals to facilitate the process as needed in conventional chemical processes. The process rate is determined by the applied electric field, which is user-defined and computer controlled. This provides the means for precise control of the length and total output of the process.

The FARADAYIC Process technology illustrated above is protected by a substantial patent portfolio including issued, allowed, and pending patent actions.

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