

## FIELD REPORT: ALABAMA SUPERFUND SITE

ISCR technology from Adventus was the EPA approved remedy for both soil and groundwater treatments at our Alabama Superfund Site. The DARAMEND application for pesticides in soil was completed on time, on budget, and with attainment of all performance standards set forth in the Record of Decision. The EHC applications for chlorinated solvents and pesticides in groundwater has shown to be an effective, long-lasting solution. Following one series of injections, groundwater performance standards have been attained for chlorinated ethenes and ethanes. Pesticide concentrations are approaching their performance standards. The EHC technology was selected after other injectable products had failed to meet performance standards.

—Superfund Site Program Manager<sup>1</sup>

# DARAMEND® BIOREMEDIATION TECHNOLOGY: THE GUARANTEED APPROACH TO TREATMENT OF SOIL, SEDIMENT, AND SOLID WASTES CONTAMINATED WITH HARD-TO-DEGRADE ORGANICS

DARAMEND® is a technically superior *In Situ* Chemical Reduction (ISCR) option—both in cost efficiency and effectiveness—over conventional enhanced bioremediation. Use of DARAMEND can result in substantial cost savings and shorter soil remediation schedules compared to traditional bioprocesses, such as composting.

DARAMEND is ideal for soil, sediment, and solid wastes impacted with recalcitrant organic compounds. It has been successfully applied to over 2,000,000 metric tons of materials contaminated with PAHs, PCP, phthalates, chlorinated herbicides and pesticides, organic explosive compounds, and wood preservatives—at a variety of industrial and military sites around the world.

Independent audits conducted by the EPA SITE program, and Environment Canada, have validated DARAMEND's technical properties.

This patented technology is uniquely advantageous because it can often be applied without excavation, generates no odors or leachate, and does not result in bulking. Performance guaranteed!

## ISCR TREATMENT EFFICIENCIES OBSERVED IN INTERNAL TESTS

Compound	Removal Efficiency (%)
DDT	80 - 95 %
Toxaphene	90 - 98 %
TCE	95 - 99 %
PCE	95 - 99 %
CT	95 - 99 %
Total PAHs	70 - 95 %
Heavy Oils	80 - 95 %

*ISCR will NOT mobilize Arsenic—a common problem in the use of Carbon-only Hydrogen Release Compounds (oils, lactates, hydrogen sources).*



*Solid Technology, Superior Value, Proven Results*

**Contact us today to arrange a complementary Technology Transfer Session or Site Evaluation.  
Call toll free at 888-295-8661 or visit us online at [www.AdventusGroup.com](http://www.AdventusGroup.com)**

<sup>1</sup>Reference, contact information, and case study available upon request