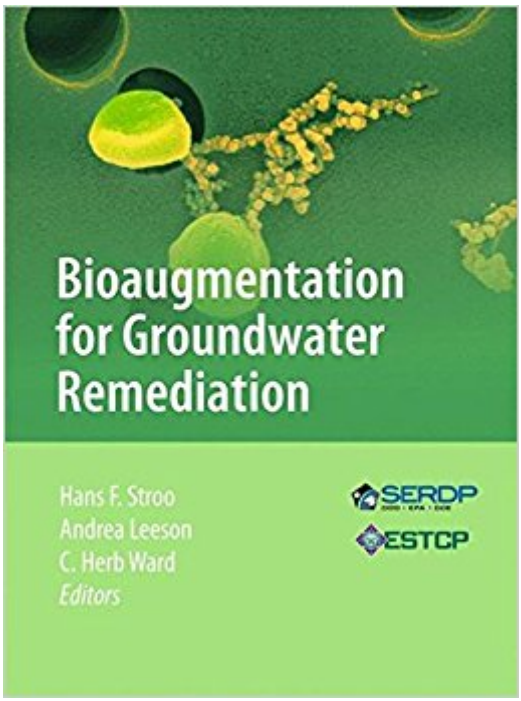
Bioaugmentation For Groundwater Remediation (SERDP ESTCP Environmental Remediation Technology)



Synopsis

Ã¢â ¬â This volume provides a review of the past 10 to 15 years of intensive research, development and demonstrations that have been on the forefront of developing bioaugmentation into a viable remedial technology.Ã Â This volume provides both a primer on the basic microbial processes involved in bioaugmentation, as well as a thorough summary of the methodology for implementing the technology.Ã Â This reference volume will serve as a valuable resource for environmental remediation professionals who seek to understand, evaluate, and implement bioaugmentation.

Book Information

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Customer Reviews

This volume reviews the past 10 to 15 years of intensive research and development that have led to bioaugmentation becoming an accepted technology. It includes background information on the basic microbial processes involved, as well as a thorough summary of the most important bioaugmentation strategies. It will serve as a valuable resource for environmental remediation professionals who seek to understand, evaluate and implement bioaugmentation. Topics include:A brief history and overview of bioaugmentation.A detailed review of the discovery of Dehalococcoides and the development of reductive dechlorination of chlorinated solvents as a remedial technology.The state-of-the-science for the production and handling of Dehalococcoides

bioaugmentation cultures.A practical guide for deciding whether to bioaugment with Dehalococcoides.Design considerations for implementing bioaugmentation. A summary of the monitoring options during bioaugmentation with Dehalococcoides.Reviews of other bioaugmentation techniques, including aerobic cometabolism of chlorinated solvents, and treatment of carbon tetrachloride and methyl tert butyl ether.An analysis of the costs for bioaugmentation of chlorinated aliphatic compounds in groundwater.An assessment of and the uncertainties and opportunities for future bioaugmentation research and development.Each chapter in this volume has been thoroughly reviewed for technical content by two or more experts in each subject area covered. This volume will provide a useful reference for both practitioners and researchers involved in groundwater remediation.

(Weyerhaeuser Environmental Books) Introduction to Environmental Engineering (McGraw-Hill Series in Civil and Environmental Engineering) Living with the Earth, Third Edition: Concepts in Environmental Health Science (Living with the Earth: Concepts in Environmental Health Science)