

## EN-02-908 In-Situ Air Sparging



# Air Sparging For Site Remediation

**Battelle Memorial In**



## **Air Sparging For Site Remediation:**

Air Sparging for Site Remediation Battelle Memorial In, 1994-02-23 The problem of aquifer contamination remains one of the greatest challenges facing environmental scientists and engineers Air sparging a technique unknown until recently has emerged with increasing application frequency as an alternative to both the pump and treat technology and conventional in situ bioremediation for treating this problem This book featuring contributions from the world s most experienced air sparging practitioners conveys the latest practical experience and information from North America and Europe Air Sparging for Site Remediation presents an overview of air sparging in general and detailed information on particular air sparging technologies and their applications The book examines the application of the technology to a variety of contaminants including hydrocarbons pesticides nitrates and chlorinated hydrocarbons In addition these specific topics and more are discussed

An Introduction to Air Sparging for Soil Remediation for Professional Engineers J. Paul Guyer, Introductory technical guidance for civil engineers environmental engineers and other professional engineers and construction managers interested in air sparging remediation of contaminated soil Here is what is discussed 1 TECHNOLOGY DESCRIPTION 2 OVERVIEW OF AIR SPARGING 3 AIR SPARGING TECHNOLOGY OPTIONS 4 RELATED TECHNOLOGIES 5 SUMMARY OF PHYSICAL PROCESSES 6 COMPONENTS OF INJECTION PRESSURE 7 GROUNDWATER MIXING 8 ASSOCIATED TECHNICAL ISSUES 9 TECHNOLOGY ASSESSMENT EFFECTIVENESS AND LIMITATIONS 10 TECHNOLOGY STATUS 11 CONDITIONS AMENABLE TO IAS 12 RESULTS IN REGULATORY CLOSURE 13 IAS MODELS

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**Groundwater Remediation for UST Sites** United States. Environmental Protection Agency. Office of Solid Waste and Emergency Response,1993

**Air Sparging** Keith A. Fields,2002 Site characterization and Feasibility Analysis Air Sparging Economics Regulatory Issues and Permitting System Design and Construction System Operation Monitoring and Optimization System Shutdown Long Term Monitoring and Site Closure Statement of Work Preparation

*Subsurface Restoration* C. H. Ward,1997-11-01 Presenting a clear understandable examination this book outlines efficient effective methods and strategies for the complex field of subsurface remediation The editors fully assess the state of knowledge of subsurface science requisite for finding new solutions providing a focused guide for advanced subsurface remediation technology Unparalleled in scope and practicality Subsurface Restoration assists those persons determining the extent of environmental contamination for remedial technology selection and for environmental decision making at all levels

**Analysis of Selected Enhancements for Soil Vapor Extraction** ,1997 This report provides an engineering analysis of and status report on selected enhancements for soil vapor extraction SVE treatment technologies The report is intended to assist project managers considering an SVE treatment system by providing them with an up to date status of enhancement technologies an evaluation of each technology s applicability to various site conditions a presentation of cost and performance information a list of vendors specializing in the technologies a discussion of relative strengths and limitations of the technologies recommendations to keep in mind when considering the enhancements and a compilation of references The performance of an SVE system depends on properties of both the contaminants and the soil SVE is generally applicable to compounds with a vapor pressure of greater than 1 millimeter of mercury at 20EC and a Henry s Law constant of greater than 100 atmospheres per mole fraction SVE is most effective at sites with relatively permeable contaminated soil and with saturated hydraulic conductivities of greater than 1 x 10 or 1 x 10 centimeter per second cm s SVE by itself does not effectively remove contaminants 3 2 in saturated soil However SVE can be used as an integral part of some treatment schemes that treat both groundwater and the overlying vadose zone Enhancement technologies should be considered when contaminant or soil characteristics limit the effectiveness of SVE or when contaminants are present in saturated soil The five enhancement technologies covered in this report are as follows and are described in the following subsections Air Sparging Dual phase Extraction Directional Drilling Pneumatic and Hydraulic Fracturing Thermal Enhancement

**Groundwater and Soil Remediation** Evan K. Nyer,1998-05-01 This bestselling

author presents his latest compilation of time and cost saving techniques methods and strategies for soil and groundwater remediation This book outlines advanced technologies including phytoremediation air sparging reactive zones vacuum enhanced recovery and more     In Situ Treatment Technology Evan K. Nyer,2000-12-28 Completely revised and updated the second edition of the bestselling In Situ Treatment Technology adds three new chapters to provide the reader with an even more comprehensive reference source on remediation This authoritative book goes beyond discussion of individual in situ technologies by providing an understanding of the geologic foun     **Innovative Site Remediation Technology: Vacuum extraction and air sparging** ,1997     Near-surface Geophysics Dwain K. Butler,2005 Near Surface Geophysics SEG Investigations in Geophysics Series No 13 presents concepts and fundamentals of near surface geophysics in Part 1 and applications and case histories in Part 2 Dedicated to Stanley H Ward Near Surface Geophysics updates and extends the scope of his landmark three volume book Geotechnical and Environmental Geophysics published by SEG in 1990 Part 1 of Near Surface Geophysics contains innovative material on magnetic and electrical methods subsurface geophysics near surface seismology electromagnetic induction and ground penetrating radar Part 2 emphasizes the determination of physical properties the prevalence of multimethod surveys and integrated interpretations and the increasing use of model based survey planning execution and interpretation Near Surface Geophysics a peer reviewed book will be of interest to practitioners and students     Contaminant Hydrology S.A. Grant,John M. Baker,I.K. Iskandar,2000-06-21 Environmental contamination in cold regions poses unique problems It affects traditionally pristine areas and presents substantial operational difficulties The extreme temperature range soils and geology the unique biological diversity the freezing and thawing of pollutants and the impact of human activities make environmental site assessment     *Advances in Environmental Geotechnics* Yunmin Chen,Xiaowu Tang,Liangtong Zhan,2011-02-04 Advances in Environmental Geotechnics presents the latest developments in this interdisciplinary field The topics covered include basic and advanced theories for modeling of geoenvironmental phenomena testing and monitoring for geoenvironmental engineering municipal solid wastes and landfill engineering sludge and dredged soils geotechnical reuse of industrial wastes contaminated land and remediation technology applications of geosynthetics in geoenvironmental engineering geoenvironmental risk assessment management and sustainability ecological techniques and case histories This proceedings includes papers authored by core members of ISSMGE TC5 International Society of Soil Mechanics and Geotechnical Engineering Environmental Geotechnics and geoenvironmental researchers from more than 20 countries and regions It is a valuable reference for geoenvironmental and geotechnical engineers as well as civil engineers Yunmin Chen Xiaowu Tang and Liangtong Zhan are Professors at the Department of Civil Engineering of Zhejiang University China     **Flow Problems in Air Venting and Air Sparging** Zhao Cheng,1998     *In Situ and On-site Bioremediation* Bruce C. Alleman,Andrea Leeson,1997 Topics include Vol     **Abstracts of Remediation Case Studies** Federal Remediation Technologies Roundtable (U.S.),2002     **Vapor Extraction and Air**

**Sparging** ,1998      **Handbook of Advanced Industrial and Hazardous Wastes Treatment** Lawrence K. Wang,Yung-Tse Hung,Nazih K. Shammash,2009-11-04 This authoritative reference for technical information on industrial and hazardous waste treatment provides broad comprehensive coverage of basic and advanced principles and applications It addresses wastes in a variety of industries including metal finishing food processing milk production foundries and chemical manufacturing Complete with numerous figures tables examples and case histories the text explores new methods of clean production and waste minimization and addresses the treatment of landfills and underground storage tanks

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