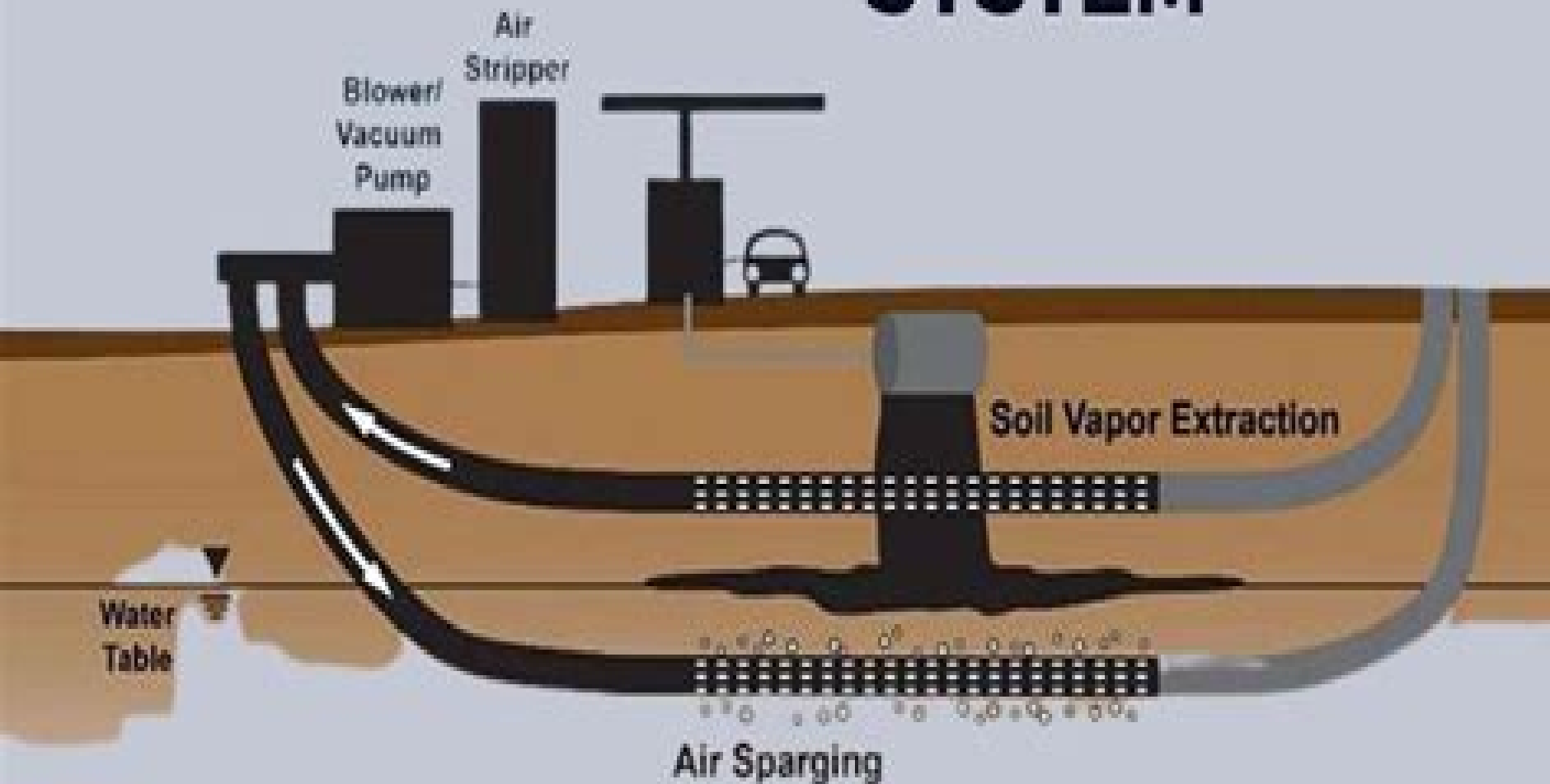


AIR SPARGING SYSTEM



Air Sparging For Site Remediation

Suthan S. Suthersan, Jeff McDonough

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the authors' names.

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

Fundamentals of Hazardous Waste Site Remediation Kathleen Sellers,2018-10-03 Every practicing environmental engineer should already have a firm grasp on the basics of hazardous waste site remediation the key to confronting a site problem and devising an effective solution Since their original introduction to remediation technology has kept moving ahead with new ideas and procedures *Fundamentals of Hazardous Waste Site Remediation* gives environmental professionals immediate access to the basics of the trade along with information about recent advancements This comprehensive overview examines the basics of such areas as hazardous materials chemistry hydrogeology reaction engineering and clean up level development A chapter on Cost Estimating will be of particular interest to specialists in light of recent concerns about the increased costs of remediation After reading each chapter test your new knowledge with the review problems As a refresher guide for career environmental engineers or a helpful tool to newcomers in the field *Fundamentals of Hazardous Waste Site Remediation* is a valuable resource for longtime professionals and newcomers alike

Remediation of Petroleum Contaminated Soils Eve Riser-Roberts,2020-11-25 This book combines the results of current research with essential background material to provide complete in depth coverage of every aspect of in situ and ex situ bioremediation as well as an extensive overview of the physical and chemical processes currently available for treating petroleum contaminated soils Critical information has been collected and assembled under one cover to provide a convenient reference for anyone who must contend with this worldwide problem *Remediation of Petroleum Contaminated Soils* Biological Physical and Chemical Processes describes how to optimize the biodegradation of petroleum hydrocarbons in soil water systems It reports on the susceptibility of various petroleum components to biodegradation by microorganisms and considers all groups of microorganisms for their potential contributions The book also deals with problem areas such as the transport of organisms oxygen or nutrients throughout the subsurface as well as biodegradation of polynuclear aromatic hydrocarbons PAHs and nonaqueous phase liquids NAPLs In addition the book presents a variety of methods for monitoring bioremediation This reference discusses current soil remediation processes and includes many innovative approaches It also

investigates means of controlling volatile organic compounds VOCs and leachate and addresses methods for collecting and treating these secondary waste streams The expansive coverage of this book will furnish readers with a wide range of options for developing treatment strategies and for customizing procedures for specific requirements **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 1×10^{-3} or 1×10^{-2} 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 **Site Remediation** J. Andy Soesilo, Stephanie Wilson, 1997-01-14 Site Remediation Planning and Management describes the management of remediation from a planning perspective skillfully combining Superfund requirements and site remediation strategy in one practical volume It clarifies and suggests remedies for the current quagmire of confusing Superfund reform and slow expensive site remediation by thoroughly explaining the Superfund program and then describing how each of its components can fit into an integrated planning and management strategy Site Remediation covers environmental sampling site characterization risk assessment cleanup criteria technology and technology screening and public participation Detailed and comprehensive yet easy to understand this book contains all you need to know about this important subject **In Situ Chemical Oxidation**

for Groundwater Remediation Robert L. Siegrist, Michelle Crimi, Thomas J. Simpkin, 2011-02-25 This volume provides comprehensive up to date descriptions of the principles and practices of in situ chemical oxidation ISCO for groundwater remediation based on a decade of intensive research development and demonstrations and lessons learned from commercial field applications Remediation Engineering of Contaminated Soils Donald L. Wise, 2000-07-25 Offers thorough coverage of the remediation of soils contaminated by hazardous wastes including materials analytical techniques cleanup design and methodology characterization of geomeia monitoring of contaminants in the subsurface and waste containment Cites specific case studies in hydrocarbon remediation that offer a concise overview of possible technological approaches

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 *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 Remediation Manual for Contaminated Sites David L. Russell, 2011-10-06 To ask the right question one needs to have some idea of what the answer might be So it is with remediation There is no such thing as too much information when it comes to characterizing a site as information can aid in selecting the best remediation options Unfortunately the collection of data for making an informed decision is often costly **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 **Technologies for Treating MTBE and Other Fuel Oxygenates**, 2004 *Soil and Groundwater Remediation* Chunlong Zhang, 2019-11-26 An introduction to the principles and practices of soil and groundwater remediation *Soil and Groundwater Remediation* offers a comprehensive and up to date review of the principles practices and concepts of sustainability of soil and groundwater remediation The book starts with an overview of the importance of groundwater resource quality contaminant sources types and the scope of soil and groundwater remediation It then provides the essential components of soil and groundwater remediation with easy to understand design equations calculations and the practical applications The book contains information on remediation basics such as subsurface chemical behaviors soil and groundwater hydrology and characterization regulations cost analysis and risk assessment The author explores various conventional and innovative remediation technologies including pump and treat soil vapor extraction bioremediation incineration thermally enhanced techniques soil washing flushing and permeable reactive barriers The book also examines the modeling of groundwater flow and contaminant transport in saturated and unsaturated zones This important book Presents the current challenges of remediation practices Includes up to date information about the low cost risk based sustainable remediation practices as well as institutional control and management Offers a balanced mix of the principles practices and sustainable concepts in soil and groundwater remediation Contains learning objectives discussions of key theories and example problems Provides illustrative case studies and recent research when remediation techniques are introduced Written for undergraduate seniors and graduate students in natural resource earth science environmental science engineering and environmental management *Soil and Groundwater Remediation* is an authoritative guide to the principles and components of soil and groundwater remediation that is filled with worked and practice problems **Remediation Engineering** Suthan S. Suthersan, Jeff McDonough, 1996-10-24 In many cases the application of in situ technologies evolved as a necessity from a cost perspective However the basic understanding of the mechanisms and theory behind these technologies was treated as a black box Although we have seen some tremendous successes in the application of remediation technologies over the past several years we have also seen many cases in which a technology has been incorrectly or inappropriately applied In most cases this misapplication has been the result of a poor understanding of the basic concepts and mechanisms behind the technologies Without proper understanding the potential for misapplication of technologies remains a serious economic and technical threat **Soil Remediation Science and Technology** Jose Julio Ortega-Calvo, Frederic Coulon, 2024-06-21 This book reviews the latest advances in soil remediation and is an authoritative account of the environmental chemistry microbiology ecotoxicology and regulation policies of soil pollution The book also discusses possible pathways for innovation by incorporating state of the art knowledge on sustainability nature based solutions and socio economical aspects Divided into four parts the book opens with an overview of the legal context and policy economy of soil pollution and remediation The management of contaminated soils has a high cost and although much

of this cost is borne by companies there is also high public spending The strategic value of soil the extensive costs associated with the remediation of many polluted sites throughout the World and the current crisis demand for new solutions to soil remediation that are addressed in the following parts of the book In this book readers will find a comprehensive description of several remediation strategies by different pollution sources nature based solutions and physicochemical methods for the remediation of contaminated soils Particular attention is given to contaminated soils from industrial activities urban settings mining and military activities In the final chapter of the book the editors present a perspective of the field research trends and needs Given its breadth this book appeals to regulators industrial scientists and scholars alike *Hydrocarbon*

Contaminated Soils Paul T. Kostecki,1992-09-01 *Hydrocarbon Contaminated Soils Volume II* presents all of the important topics of hydrocarbon contaminated soils from the perspectives of scientific theory regulatory application and analysis and site assessment These topics include an analysis of pollutants soil physics and environmental fate remediation techniques health effects regulations and case histories The book also includes a special section on petroleum contamination in groundwater and soils *Hydrocarbon Contaminated Soils Volume II* will interest anyone who works with contaminated soils ground water and underground storage tanks It will also be an excellent reference for regulatory personnel and environmental consultants at all levels **Proceedings of the 51st Purdue Industrial Waste Conference1996**

Conference Purdue Research Foun,1997-05-01 The papers presented at the 51st Purdue Industrial Waste Conference have been divided into the following sections pollution prevention site remediation physical and chemical processes odor and VOC control solidification foundry and combustion residues biological processes respirometry and effluent toxicity industrial waste case histories Each chapter contains a multitude of figures and tables illustrating the concepts discussed as well as extensive references for further study **EPA National Publications Catalog** United States. Environmental Protection Agency,1999

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