



NATURAL ATTENUATION FOR **GROUNDWATER** REMEDIATION

NATIONAL RESEARCH COUNCIL

Natural Attenuation For Groundwater Remediation

Kathleen Sellers

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Natural Attenuation For Groundwater Remediation:

Natural Attenuation for Groundwater Remediation Commission on Geosciences, Environment, and Resources, Board on Radioactive Waste Management, Water Science and Technology Board, Committee on Intrinsic Remediation, 2000-07-31 In the past decade officials responsible for clean up of contaminated groundwater have increasingly turned to natural attenuation essentially allowing naturally occurring processes to reduce the toxic potential of contaminants versus engineered solutions This saves both money and headaches To the people in surrounding communities though it can appear that clean up officials are simply walking away from contaminated sites When is natural attenuation the appropriate approach to a clean up This book presents the consensus of a diverse committee informed by the views of researchers regulators and community activists The committee reviews the likely effectiveness of natural attenuation with different classes of contaminants and describes how to evaluate the footprints of natural attenuation at a site to determine whether natural processes will provide adequate clean up Included are recommendations for regulatory change The committee emphasizes the importance of the public's belief and attitudes toward remediation and provides guidance on involving community stakeholders throughout the clean up process The book explores how contamination occurs explaining concepts and terms and includes case studies from the Hanford nuclear site military bases as well as other sites It provides historical background and important data on clean up processes and goes on to offer critical reviews of 14 published protocols for evaluating natural attenuation

Use of Monitored Natural Attenuation for Groundwater Remediation Western Australia. Department of Environmental Protection, 2002

Natural Attenuation for Groundwater Remediation Commission on Geosciences, Environment, and Resources, Board on Radioactive Waste Management, Water Science and Technology Board, Committee on Intrinsic Remediation, 2000-08-31 In the past decade officials responsible for clean up of contaminated groundwater have increasingly turned to natural attenuation essentially allowing naturally occurring processes to reduce the toxic potential of contaminants versus engineered solutions This saves both money and headaches To the people in surrounding communities though it can appear that clean up officials are simply walking away from contaminated sites When is natural attenuation the appropriate approach to a clean up This book presents the consensus of a diverse committee informed by the views of researchers regulators and community activists The committee reviews the likely effectiveness of natural attenuation with different classes of contaminants and describes how to evaluate the footprints of natural attenuation at a site to determine whether natural processes will provide adequate clean up Included are recommendations for regulatory change The committee emphasizes the importance of the public's belief and attitudes toward remediation and provides guidance on involving community stakeholders throughout the clean up process The book explores how contamination occurs explaining concepts and terms and includes case studies from the Hanford nuclear site military bases as well as other sites It provides historical background and important data on clean up processes and goes on

to offer critical reviews of 14 published protocols for evaluating natural attenuation Evaluation of Natural Attenuation for Long-term Groundwater Remediation Management Terry Robert Etter, 1997 **Natural Attenuation** Patrick V. Brady, Michael V. Brady, David J. Borns, 2018-02-06 Natural Attenuation CERCLA RBCAs and the Future of Environmental Remediation presents the concept of natural attenuation the tendency of soils to severely limit the toxicity of many types of hazardous waste It reviews and updates the most recent findings from the field and lab and shows how natural attenuation is rapidly changing the direction and focus of environmental remediation Outlining the legal and regulatory framework that has made waste remediation so costly this book shows how applying an understanding of natural attenuation can decrease cleanup outlays while lowering risks to human health Natural Attenuation CERCLA RBCAs and the Future of Environmental Remediation makes it clear why natural attenuation will be relied upon more and more in the future *Work Plan for a Demonstration of Remediation by Natural Attenuation for Groundwater at OU 4*, 1997 This work plan WP was prepared by Parsons Engineering Science Inc Parsons ES to define the scope of work and procedures required to evaluate remediation by natural attenuation RNA of groundwater contaminated with chlorinated aliphatic hydrocarbons CAHs at Operable Unit 4 OU 4 Hill Air Force Base AFB Utah To this end this work plan presents a preliminary conceptual model based on available data and provides suggested protocols to fill the identified data gaps necessary to develop a more thorough conceptual model of groundwater flow and RNA at OU 4 The CAH plume covers an area of about 60 acres of which approximately 45 acres are off base Landfills have been identified as the primary source of the groundwater contamination Trichloroethene TCE is the primary CAH contaminant Leachate from the landfills has migrated into shallow groundwater and has been transported under the influence of steep hydraulic gradients to hillside discharge points For the purposes of this WP RNA is defined as a management strategy that relies on natural attenuation mechanisms to bring about a reduction in the total mass of contaminants dissolved in groundwater and to control receptor exposure risks associated with this contamination Natural attenuation is defined by the United States Environmental Protection Agency USEPA Offices of Research and Development ORD and Solid Waste and Emergency Response OSWER as follows The biodegradation dispersion sorption volatilization and or chemical and biochemical stabilization of contaminants to effectively reduce contaminant toxicity mobility or volume to levels that are protective of human health and the ecosystem As suggested by this definition there are destructive and non destructive mechanisms of natural attenuation Of these processes biodegradation is the only mechanism working to transform contaminants into innocuous by **Soil and Groundwater Remediation Technologies** Yong Sik Ok, Jörg Rinklebe, Deyi Hou, Daniel C.W. Tsang, Filip M.G. Tack, 2020-03-23 This book offers various soil and water treatment technologies due to increasing global soil and water pollution In many countries the management of contaminated land has matured and it is developing in many others Topics covered include chemical and ecological risk assessment of contaminated sites phytomanagement of contaminants arsenic removal selection and technology diffusion technologies and socio

environmental management post remediation long term management soil and groundwater laws and regulations and trace element regulation limits in soil Future prospects of soil and groundwater remediation are critically discussed in this book Hence readers will learn to understand the future prospects of soil and groundwater contaminants and remediation measures Key Features Discusses conventional and novel aspects of soil and groundwater remediation technologies Includes new monitoring sensing technologies for soil and groundwater pollution Features a case study of remediation of contaminated sites in the old industrial Ruhr area in Germany Highlights soil washing soil flushing and stabilization solidification Presents information on emerging contaminants that exhibit new challenges This book is designed for undergraduate and graduate courses and can be used as a handbook for researchers policy makers and local governmental institutes Soil and Groundwater Remediation Technologies A Practical Guide is written by a team of leading global experts in the field

Evaluation of Natural Attenuation as One Component of Chloroethene-Contaminated Groundwater

Remediation, 1998 Test Area North TAN at the Idaho National Engineering and Environmental Laboratory INEEL is the site of a large trichloroethene TCE plume resulting from the historical injection of wastewater into the Snake River Plain Aquifer The TAN Record of Decision ROD selected pump and treat as the final remedy and included a contingency for post ROD treatability studies of alternative technologies The technologies still under consideration are in situ bioremediation in situ chemical oxidation and natural attenuation Both anaerobic and aerobic laboratory microcosm studies indicate the presence of microorganisms capable of chloroethene degradation Field data indicate that TCE concentrations decrease relative to tritium and tetrachloroethene indicating an as yet unknown process is contributing to natural attenuation of TCE Several methods for analyzing the field data have been evaluated and important limitations identified Early results from the continued evaluation of the three alternative technologies suggest the combined approach of active remediation of the source area in situ bioremediation and or chemical oxidation replacing or augmenting pump and treat and natural attenuation within the dissolved phase plume may be more cost and schedule effective than the base case pump and treat **Kohlund**, 1961

Bioremediation and Natural Attenuation Pedro J. Alvarez, Walter A. Illman, 2005-12-13 A groundbreaking text and professional resource on natural attenuation technology Natural attenuation is rapidly becoming a widely used approach to manage groundwater and soil contamination by hazardous substances in petroleum product releases and leachate from hazardous waste sites and landfills This book provides under one cover the current methodologies needed by groundwater scientists and engineers in their efforts to evaluate subsurface contamination problems to estimate risk to human health and ecosystems through mathematical models and to design and formulate appropriate remediation strategies Incorporating the authors extensive backgrounds as educators researchers and consultants in environmental biotechnology and hydrogeology the text emphasizes new concepts and recent advances in the science including Quantification of the role of microbes in natural attenuation Biodegradation and chemical transformation principles Immobilization and phase change

Biotransformation mechanisms Groundwater flow and contaminant transport Analytical models for contaminant transport and reaction processes Numerical modeling of contaminant transport transformation and degradation Detailed descriptions of fundamental processes characterization approaches and analytical and numerical methods tied to relevant real world applications make Bioremediation and Natural Attenuation Process Fundamentals and Mathematical Models both a timely course text in hydrogeology and environmental engineering and a valuable reference for anyone in the groundwater or risk assessment professions

Work Plan for a Demonstration of Remediation by Natural Attenuation for Groundwater at OU 2 at Hill Air Force Base, Utah ,1997 This work plan WP was prepared by Parsons Engineering Science Inc Parsons ES to define the scope of work SOW and procedures required to demonstrate that remediation by natural attenuation RNA is occurring in groundwater contaminated with chlorinated aliphatic hydrocarbons CAHs at Operable Unit 2 OU 2 at Hill Air Force Base AFB Utah To meet this goal this WP presents a preliminary conceptual model based on a review of available data and provides suggested protocols to fill the identified data gaps necessary to develop a more thorough conceptual model of groundwater flow and RNA at OU 2 For the purposes of this WP RNA is defined as a management strategy that relies on natural mechanisms to bring about a reduction in the total mass of contamination in the subsurface and to control receptor exposure risks associated with this contamination Natural attenuation is defined by the United States Environmental Protection Agency USEPA Offices of Research and Development ORD and Solid Waste and Emergency Response OSWER as follows The biodegradation dispersion sorption volatilization and or chemical and biochemical stabilization of contaminants to effectively reduce contaminant toxicity mobility or volume to levels that are protective of human health and the ecosystem As suggested by this definition there are destructive and non destructive mechanisms of natural attenuation Of these processes biodegradation is the only mechanism working to transform contaminants into innocuous byproducts During biodegradation indigenous microorganisms work to bring about a reduction in the total mass of contamination in the subsurface without the addition of nutrients Patterns and rates of natural attenuation can vary markedly from site to site depending on governing physical and chemical processes

Engineering Tools for Environmental Risk Management
 Katalin Gruiz,Tamás Meggyes,Éva Fenyvesi,2019-01-08 The four volumes of the book series Engineering Tools for Environmental Risk Management deal with environmental management assessment monitoring tools environmental toxicology and risk reduction technologies This last volume focuses on engineering solutions usually needed for industrial contaminated sites where nature s self remediation is inefficient or too slow The success of remediation depends on the selection of an increasing number of conventional and innovative methods This volume classifies the remedial technologies and describes the reactor approach to understand and manage in situ technologies similarly to reactor based technologies Technology types include physicochemical biological or ecological solutions where near natural sustainable remediation has priority A special chapter is devoted to natural attenuation where natural changes can help achieve clean up objectives

Natural attenuation and biological and ecological remediation establish a serial range of technologies from monitoring only to fully controlled interventions using just the natural ecosystem or sophisticated artificial living systems Passive artificial ecosystems and biodegradation based remediation in addition to natural attenuation demonstrate the use of these green technologies and how engineering intervention should be kept at a minimum to limit damage to the environment and create a harmonious ecosystem Remediation of sites contaminated with organic substances is analyzed in detail including biological and physicochemical methods Comprehensive management of pollution by inorganic contaminants from the mining industry leaching and bioleaching and acid mine drainage is studied in general and specifically in the case of an abandoned mine in Hungary where the innovative technology of combined chemical and phytostabilization has been applied The series of technologies is completed by electrochemical remediation and nanotechnologies Monitoring verification and sustainability analysis of remediation provide a comprehensive overview of the management aspect of environmental risk reduction by remediation This book series focuses on the state of knowledge about the environment and its conscious and structured application in environmental engineering management and decision making

Description of Harrisburg and Gettysburg Mines ,19?? Soil Remediation and Rehabilitation Helmut Meuser,2012-12-11 This book provides a comprehensive overview of remediation and rehabilitation techniques and strategies for contaminated and anthropogenically disturbed land Rehabilitation approaches in the urban environment such as brownfield redevelopment and urban mining are discussed In relation to contaminated land techniques for soil containment and decontamination of soil soil vapour and groundwater are comprehensively and systematically presented Complicated treatment techniques are schematically depicted and can be readily understood Agricultural silvicultural and environmentally sustainable rehabilitation strategies for reclaiming disturbed land terrain in former mining or natural resource extraction areas such as open cast mines quarries harvested peatlands and subsided mining terrain sinkholes are introduced This book will be a useful tool for students researchers private consultants and public authorities engaged in the treatment of contaminated or disturbed land

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 Monitored Natural Attenuation of Inorganic Contaminants in Ground Water ,2007 V 3 consists of individual chapters that describe 1 the conceptual background for radionuclides including tritium radon strontium technetium uranium iodine radium thorium cesium plutonium americium and 2 data requirements to be met during site characterization **The Economics of Groundwater Remediation and Protection** Paul E. Hardisty,Ece Ozdemiroglu,2004-12-20 Economic literature is often too theoretical for engineers and policymakers to put into practical use while scientific literature on the remediation of contaminated aquifers rarely considers costs and benefits Written by a hydrogeologist and an economist The Economics of Groundwater Remediation and Protection integrates economics and cost benefit analysis tools with optimal protection and remediation strategies for groundwater resources The book provides a thorough introduction of the concepts of groundwater flow and contaminant transport and the basics of economic decision making techniques It illustrates the types of risks and impacts caused by groundwater contamination and the economic benefits of its remediation The volume reviews a wide range of issues such as cost implementation and expectations of success for the latest remediation trends and techniques The book shows how economic analysis can be used to determine how much we should pay for groundwater clean up and when spending too much or too little actually makes us all worse off The authors step by step methodology for decision making focuses on determining optimal remedial objectives from containment to extensive cleanup and the selection of least cost alternatives They use examples from their personal experience to illustrate the methodologies in action and put the issues into perspective Combining the theoretical and practical aspects of science policy and economics this book places the importance of groundwater remediation in the context of environmental economics protection and preservation The Economics of Groundwater Remediation and Protection is also an excellent introduction to innovative solutions for funding remediation projects education and incentive programs such as mitigation banking land pollution credit schemes and conservation credit alternatives *An Introduction to Thermal Remediation Treatment of Contaminated Soil* J. Paul Guyer, P.E., R.A.,2017-12-30 Introductory technical guidance for civil geotechnical and environmental engineers interested in thermal remediation methods for treatment of contaminated soil Here is what is discussed 1 SITE SCREENING 2 FEASIBILITY STUDIES 3 BENCH AND PILOT SCALE STUDIES 4 TREATMENT DESIGN 5 COST AND PERFORMANCE 6 CASE STUDIES *Treatment of Contaminated Soil* Rainer Stegmann,Gerd Brunner,Wolfgang Calmano,Gerhard Matz,2013-03-09 Newly developed and innovative methods are mentioned and outlined so that the book can be used as a source of information for scientists and professionals specialised in the treatment of soils as well as for students in courses of environmental studies The book offers a short compressed overview of the important features of this subject and can be used as a reference book of the state of the art The appendix offers the interested reader a detailed survey of materials test methods and apparatuses as well as a description of analytical directions and processes *Groundwater Remediation*

Nicholas P. Cheremisinoff, 2017-06-13 Written by one of the world's foremost authorities on the subject this is the most comprehensive and in depth treatment available to environmental engineers and scientists for the remediation of groundwater one of the earth's most precious resources Groundwater is one of the Earth's most precious resources We use it for drinking bathing and many other purposes Without clean water humans would cease to exist Unfortunately because of ignorance or lack of caring groundwater is often contaminated through industrialization construction or any number of other ways It is the job of the environmental engineer to remediate the contaminated groundwater and make what has been tainted safe again Selecting the proper remediation strategy and process is the key to moving forward and once this process has been selected it must be executed properly taking into consideration the costs the type of contaminants that are involved time frames and many other factors This volume provides a broad overview of the current and most widely applied remedial strategies Instead of discussing these strategies in a generic way the volume is organized by focusing on major contaminants that are of prime focus to industry and municipal water suppliers The specific technologies that are applicable to the chemical contaminants discussed in different chapters are presented but then cross referenced to other chemical classes or contaminants that are also candidates for the technologies The reader will also find extensive cost guidance in this volume to assist in developing preliminary cost estimates for capital equipment and operations maintenance costs which should be useful in screening strategies The eight chapters cover all of the major various types of contaminants and their industrial applications providing a valuable context to each scenario of contamination This is the most thorough and up to date volume available on this important subject and it is a must have for any environmental engineer or scientist working in groundwater remediation

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