# Studies in Environmental Science 39

# AQUATIC BIOENVIRONMENTAL STUDIES: THE HANFORD EXPERIENCE 1944-84

C.D. Becker



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Aguatic Bioenvironmental Studies: The Hanford Experience: 1944-1984 C.D. Becker, 1990-09-11 From 1944 1971 the Hanford Reach of the Colombia River in Washington State received quantities of radioisotopes heat and chemicals from up to 8 plutonium reactors Subsequently from 1971 1984 the same part of the river provided cooling water for 3 power production facilities Environmental concerns promoted a series of continuing studies to examine various potential adverse effects No significant impairment of the rivers ecosystem was detected This book reviews these studies and places them in a historical framework It provides a unique overview of studies made over a 40 year period which are now scattered through various published and unpublished documents It should be of interest to all those concerned with aquatic ecology and environmental concerns Environmental Science Theory W.T. de Groot, 1992-10-22 Having no competitive works this unique publication presents a single structure for the analysis explanation and solution of environmental problems regardless of their location nature or scale In this problem oriented approach a coherent framework interconnects the study of facts and values environmental systems social causes and ethical premises Counterbalancing current biases the author emphasizes the fundamental normative economic and social scientific aspects of truly interdisciplinary environmental science For instance the normative side of environmental problems are often neglected resulting in policy designs and evaluations containing inefficient mixtures of sophisticated models and poorly grounded normative premises this is the first major study to enrich the field with more normative consistency and groundedness It is also the first text to consistently identify the social causes of environmental problems rather than focusing on the physical scientific aspects and thus design deeper and more effective policies Furthermore a tinge of post modern thinking runs throughout the book with special care being taken however to constantly keep in view the practical relevance of theory for problem oriented work The book will be of interest to environmental scientists and managers wishing to improve the consistency and depth of their work to social scientists and geographers wishing to connect their discipline to the environmental problems field and to general scientists interested in the connections between philosophy and practice Natural Analogue Studies in the Geological Disposal of Radioactive Wastes W.M. Miller, N. Chapman, I. McKinley, R. Alexander, J.A.T. Smellie, 2011-08-18 The first purpose of this book is to provide a comprehensive review of the state of development of natural analogue studies with emphasis on those studies which are relevant to the following repository designs Nagra Switzerland disposal concepts for high level waste low and intermediate level waste SKB Sweden disposal concepts for spent fuel low and intermediate level waste and Nirex UK disposal concept for low and intermediate level waste The book's second aim is to discuss the expanding application of natural analogues for non performance assessment purposes especially their potential for presenting the concept of geological disposal to various interested audiences in a coherent understandable and scientifically legitimate manner Much of the discussion of the book is relevant to concepts for geological disposal of radioactive wastes by other countries and is

concerned only with those physico chemical processes which control the release of radionuclides from the near field and their subsequent retardation and transport in the geosphere Chemistry and Biology of Water, Air and Soil J. Tölgyessy, 1993-03-11 Environmental pollution is a universal problem which threatens the continued existence of mankind rendering it one of the primary concerns of society This book provides a comprehensive view of the chemistry and biology of water air and soil particularly those aspects connected with the protection of the environment The first part of the book presents fundamental information on the chemistry and biology of water in its natural state and the effects of water pollution from industry traffic agriculture and urbanization It covers the composition of natural service and wastewaters as well as methods of chemical and biological water analysis and water treatment The second part deals with atmospheric problems particularly the basic composition of atmosphere and the different sources of its pollution methods of restriction and air analysis The final part of the volume focuses on the characteristics of soil and soil components natural and anthropogenous soil processes the chemistry biology and microbiology of soil and soil analysis This book will be of great value to chemists biologists physicians pharmacists farmers veterinarians and university students as well as to those engaged in the sphere of environmental protection Water and Peace in the Middle East J. Isaac, H. Shuval, 1994-04-05 The volume serves as an important mile stone in the process called second track dialogue and cooperation between Israeli and Palestinian academics on crucial shared problems the resolution of which is vital to the peace process The book contains forty one original papers dealing with almost all aspects of the Middle Eastern water problems and should serve as a useful reference to students scholars and policy makers all over the world interested in understanding the complexities of the Middle Eastern water Environmental Aspects of Construction with Waste Materials Th.G. Aalbers, H.A. van der Sloot, J.J.J.M. conflicts Goumans, 1994-05-20 The concept of Sustainable Development implicating the protection of soil and groundwater the limitation of waste production and the re use of soild waste materials is still the leading theme of WASCON 94 Although it is clearly recognized in most countries that products derived from solid waste materials can be applied as construction materials research is still needed to assess various environmental problems Global Environmental Biotechnology D.L. Wise, 1997-07-23 Environmental biotechnology is an emerging field of scientific and technological investigations that is truly global Popular recognition is high for the environmental problems being faced and solved by biotechnology methods This book presents selected papers from the 3rd International Symposium of the International Society for Environmental Biotechnology held in Boston in July 1996 The following topics are covered metals mine drainage removal and toxicity waste treatment monitoring bioremediation water quality biodegradation and local national and international issues in Environmental Oriented Electrochemistry C.A.C. Sequeira, 1994-06-06 This book concentrates on the biotechnology electrochemistry environment relationship including among others chapters on design and operation of electrochemical reactors and separators process simulation development and scale up optimization and control of electrochemical processes

applied to environmental problems also including economic analysis description of unique current and future applications in addition to basic research into developing new technologies It is hoped that this volume will be considered interesting and extremely timely to specialists in electrochemistry and environmental sciences **Municipal Solid Waste Incinerator** Residues A.J. Chandler, T.T. Eighmy, O. Hjelmar, D.S. Kosson, S.E. Sawell, J. Vehlow, H.A. van der Sloot, J. Hartlén, 1997-04-09 This text covers a broad spectrum of topics pertinent to the management of incinerator residues Background information includes a history of incineration and the influence of municipal waste composition incinerator type air pollution control technologies on residue quality Physical chemical and leaching characteristics for the various ash streams are described along with recommended sampling and evaluation methodologies Residue handling and management options including treatment utilisation and disposal are also discussed in detail Acid Atmospheric Deposition and its Effects on **Terrestrial Ecosystems in The Netherlands** G.J. Heij, J.W. Erisman, 1997-05-09 The book begins with an overview of the research topics which were addressed in the three different phases of the Dutch Priority Program on Acidification DPPA executed between 1985 and 1994 This chapter is followed by a chapter which deals with the emissions of acidifying substances the concentrations and the deposition to forest and nature conservation areas Prognoses are given for the acid deposition in 2000 and 2010 the deposition in the countries surrounding the Netherlands is also mentioned The differences in the results of the DPPA II are analysed The third chapter deals with the effects of exposure and load on forests The chapter moves from small scale to large scale first the effects in laboratory scale studies are described then the effects in the field both at stand level and on a regional scale In addition the critical thresholds critical level of concentration and critical load of deposition are discussed The fourth chapter covers terrestrial ecosystems or parts thereof as well as weakly buffered surface waters springs and other streams Critical levels and loads are also discussed The most important results are given in chapter 5 In the appendices of the book so called umbrella theme reports on deposition stand modelling and effects on forests are presented which describe in more detail the scientific work performed in the third phase of the DPPA This book will be of interest to anyone involved in research related to acidification and eutrophication i e not only those who perform the research in the causal chain from emissions to effects but also policy makers and students Harmonization of Leaching/Extraction Tests L. Heasman, H.A. van der Sloot, Ph. Quevauviller, 1997-06-10 This is a unique compilation on the use of leaching extraction methods in different fields The use of leaching test methods is increasing in various areas including waste treatment and disposal incineration of waste soil clean up and reuse of cleaned soil sludge treatment This has led to and may increasingly lead to the development of a large number of very similar tests in these different fields However these developments are taking place with no clear understanding of their mutual relationships In view of these developments efforts are needed to harmonize the leaching procedures that could be adapted for different matrices as well as validate the use of existing tests in other fields The development of a wide variety of leaching extraction tests for different

matrices is undesirable from a regulatory point of view and undesirable for industry Clarity in testing is crucial in producer consumer relations This collective document will assist in improving the understanding of leaching from a variety of sources and will where appropriate help to bring together the approaches used in different technical fields and in different countries

Freshwater and Estuarine Radioecology R.J. Blust, R.N.J. Comans, J.A. Fernandez, J. Hilton, A. de Bettencourt, G. Desmet, 1997-07-25 Approx 504 pages Waste Materials in Construction G.J. Senden, H.A. van der Sloot, J.J.J.M. Goumans, 1997-11-21 This book presents the proceedings of the 3rd International Conference on Waste Materials in Construction held in June 1997 The papers presented give the state of the art on leaching of materials and products demonstration projects and product development Results of workshops on immobilisation and quality control are also presented A good overview of the latest results on the application of various materials in construction based on both technical and environmental data is provided The book provides a unique opportunity for environmental researchers environmental consultants policy makers and those involved in the construction industry to gain the latest information on the Air Pollution in the 21st Century T. Schneider, 1999-03-12 This symposium was jointly organized by the United States Environmental Protection Agency and The Netherlands Ministry of Housing Spatial Planning and the Environment These proceedings will provide a stimulus for taking up the challenges of environmental policy development in the 21st century and will contribute to continuing co operation Clean air is a basic condition for health Air pollution aggravates respiratory problems leading to increased sickness absenteeism increased use of health care services and even premature mortality Air pollution is under intensive discussion in the United States and Europe In The Netherlands a wide range of policy instruments have been formulated which have reduced air pollution For example since 1975 sulphur dioxide and lead emissions have been reduced However emission reduction figures for many other substances are more modest Many air pollution problems persist because progress in countering these problems is nullified by growth in the economy and traffic Another important target is the prevention of climate change The international community is agreed that the increasing concentration of greenhouse gases in the atmosphere has led to a gradual increase in the earth's temperature In terms of the environmental consequences and social implications the greenhouse problem surpasses all other air quality problems Across Europe strategies are being developed to reduce acidification and photochemical air pollution An air emission ceiling for each country in the European Union is being agreed In the area of climate change there is good co operation between the United States The Netherlands and other EU Members States in the ongoing global negotiations This is the start of a new movement In the last century economies and societies developed through increasing human productivity In the next century they must develop through increasing the productivity of fuel and natural resources Nordic Radioecology H. Dahlgaard, 1994-10-11 The present treatise is the final milestone in the radioecology programme RAD carried out from 1990 to 1993 under the Nordic Committee for Nuclear Safety Research NKS The book one of the few in its field to have achieved

international publication is centred on the contamination of Nordic environments with radionuclides from the Chernobyl accident It contains 30 contributions mainly describing the flow of radiocaesium through aquatic agricultural forest and alpine ecosystems as well as quality assurance and doses to man A series of original papers on various aspects of Nordic post Chernobyl radioecology by leading Nordic scientists is also included along with terms units definitions indexes and an executive summary. The volume will be invaluable to all scientists and professionals in radioecology radiation protection trace element cycling and environmental contamination It will also be relevant to general evironmental management human contamination civil defence officials Atmospheric Deposition J.W. Erisman, G.P.J. Draaijers, 1995-06-09 In this book the research on atmospheric deposition of the Dutch Priority Programme on Acidification Research is summarised Although most research described is of Dutch origin it has been put into a broader perspective by outlining the state of knowledge on the process affecting atmospheric deposition in Europe This has resulted in detailed deposition maps for the Netherlands and Europe The volume is intended for those who measure or model atmospheric deposition and ecologists interested in exposure from atmospheric deposition as well as policy makers and students **Characterization and Control of Odours and VOC** in the Process Industries S. Vigneron, J. Hermia, J. Chaouki, 1994-09-01 The purpose of the symposium was to present recent advances in characterization and control of odour and volatile organic compound emissions in the atmosphere and to contribute to the state of the art of measurement and sampling tools impact prediction methods and abatement techniques Topics covered were Legislative aspectsEmission characterizationAbatement technologies both recuperative and destructive and Reduction methods Apart from the global problems of climate all aspects relating to the workplace environment and official regulations were discussed Environmental Contamination J.-P. Vernet, 1993-11-04 This book deals with various aspects of environmental contamination One of the fields considered in this work is atmospheric pollution. This has become a major problem of our time and could soon develop into a scandal through the overestimation of the impact of greenhouse gases such as ozone NOx or SO2 which allows their use as political instruments Another growing field of importance covers the fundamental questions posed by the problem of soils and their interaction with waste from human activities eg sterile mining waste sewage sludge and contaminated dredged material How do these different elements react and how tolerant can our system be towards them This publication containing a selection of the most important work presented at the 5th International Conference on Environmental Contamination reflects some aspects of the present state of research and our The Reclamation of Former Coal Mines and Steelworks I.G. Richards, J.P. society s dominant preoccupations Palmer, P.A. Barratt, 1993-10-11 This book the result of studies undertaken on behalf of the European Commission examines the current state of the art techniques for the restoration of despoiled lands arising from the coal and steel industries It provides technical guidance to aid the process of the regeneration of the coal and steel communities of Europe The chapters are fully cross referenced in the text and where more technical or specific detail is provided this has been placed into boxes

rather than in the main text The book will be of great interest to environmental scientists and engineers and to all those who are involved in mining mineral waste soil pollution and waste management and disposal The Removal of Nitrogen Compounds from Wastewater B. Halling-Sørensen, S.E. Jorgensen, 1993-11-09 This volume gives an overview of the wide spectrum of nitrogen removal processes available today Part A gives a brief outline of nitrogen pollution sources the global nitrogen cycle and the treatment methods part B presents details of all biological methods for nitrogen removal and part C describes the physico chemical nitrogen removal methods Design examples relating to parts B and C are given in appendices Design equations are given in the text but more emphasis has been placed on the profound understanding of the biological and chemical processes and the basic factors that influence these Parameters and regression equations for a quantitive description of these factors and their influence on the key processes are presented in several tables This feature makes the volume a very useful handbook it will be of great value to those environmentalists who require a record of the available nitrogen removal methods from both biological and chemical viewpoints

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