



Cost-Effective Remediation and Closure of Petroleum- Contaminated Sites

RAPID SITE CHARACTERIZATION

DOCUMENTED NATURAL ATTENUATION

LOW-COST SOURCE REDUCTION

RISK-BASED CORRECTIVE ACTION

SITE CLOSURE STRATEGIES

Douglas C. Downey

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Cost Effective Remediation And Closure Of Petroleum Contaminated Sites

JR Anderson



Cost Effective Remediation And Closure Of Petroleum Contaminated Sites:

Cost-effective Remediation and Closure of Petroleum-contaminated Sites Douglas C. Downey, Robert E. Hinchey, Ross N. Miller, 1999 This book provides environmental managers and their supporting technical specialists with a comprehensive strategy for cost effectively cleaning up soils and groundwater contaminated by petroleum releases It includes the most recent advances in site investigation techniques low cost remedial approaches and technologies It uses a risk based process to answer key questions involved in developing a remediation or closure plan for a petroleum spill site Several approaches are described that include risk management methods which use institutional controls to isolate contaminants from human contact and long term monitoring to verify that natural attenuation is reducing future risk More traditional risk evaluations and simplified RBCA methods are also presented that use site specific exposure assumptions to develop risk based cleanup objectives Case studies illustrate how various combinations of land use control site specific risk analysis natural attenuation and focused source reduction technologies have been used to obtain risk based closures at sites across the United States Proceedings of the 49th Industrial Waste Conference Purdue University, May 1994 Ronald F. Wukasz, 1994-12-29 Known and used throughout the world the Purdue Industrial Waste Conference Proceedings books are the most highly regarded in the waste treatment field New research case histories and operating data cover every conceivable facet of today s big problems in environmental control treatment regulation and compliance This volume representing the proceedings from the 49th conference provides unparalleled information and data for your current waste problems **Streamlined Risk-Based Closure of Petroleum Contaminated Sites and Cost Results from Multiple Air Force Demonstration Sites** ,1999 This document summarizes the results or streamlined risk based corrective action RBCA assessments performed at nine Air Force sites with fuel contaminated groundwater The goal of this risk based remediation approach was to find the most cost effective method for reducing current and future potential risk by combining chemical source reduction chemical migration control and receptor restriction risk reduction techniques **Contents of Site Investigation Reports for Petroleum Contaminated Sites for Submittals to the Department of Natural Resources and the Department of Commerce** Wisconsin. Department of Natural Resources, 2001 **Streamlined Risk-Based Closure of Petroleum Contaminated Sites and Cost Results from Multiple Air Force Demonstration Sites, Slide Presentation** ,1999 This slide presentation summarizes the results or streamlined risk based corrective action RBCA assessments performed at nine Air Force sites with fuel contaminated groundwater The goal of this risk based remediation approach was to find the most cost effective method of reducing current and future potential risk by combining chemical source reduction chemical migration control and receptor restriction risk reduction techniques *Remediation Manual for Petroleum Contaminated Sites* David L. Russell, 1992-11-23 Based on proven investigation into cleanup techniques the material in this manual gives engineers a working knowledge of the field and a basis for making key decisions during the

cleanup process It is easy to get petroleum into the ground but hard to get it back out again The problem does not exist in the groundwater or the soil alone but in a dynamic balance between the soil water and air in the soil Gasoline and any of its volatile components can and do move between the soil air and water and they cost billions of dollars every year in contamination cleanup This new book provides the information needed for cost and time effective petroleum contaminated site cleanup Originally developed as an oil company s training aid this book discusses the hows and whys of site cleanup geology data gathering cleanup alternatives remediation costs and management of consultants contractors Plus the book contains a critical examination of the benefits and limitations of each type of remediation technology There is never only one way to clean up a particular site The choice of the method of cleanup is one of the greatest factors affecting the cost Another important cost factor is the level of cleanup required to satisfy the regulatory cleanup community This new book will not only provide a fundamental understanding of site remediation techniques but also the knowledge to make cost effective environmentally sound choices during the remediation process Copies of this handy manual are available for immediate delivery An order form follows the detailed table of contents on the reverse *Expedited Site Assessment Tools for Underground Storage Tank Sites* ,1997 Abstracts of Public Administration, Development, and Environment ,1999

Brownfields Revitalization and Environmental Restoration Act of 2001 United States. Congress. Senate. Committee on Environment and Public Works,2001 *Sci-tech News* ,2000 Microbial Bioremediation Rouf Ahmad Bhat,Monica Butnariu,Gowhar Hamid Dar,Khalid Rehman Hakeem,2022-12-10 Microbial bioremediation and biodegradation in environmental monitoring offers an environmentally friendly approach for the monitoring and effective removal of contaminants Various aspects of microbial mediated bioremediation take advantage of the microorganisms ability to transform noxious compounds into utilizable intermediates and value added products Different microbial metabolites such as enzymes biosurfactants emulsifiers organic acids and solvents play significant roles in the decontamination of radioactive and heavy metals chemical pesticides and organic contaminants such as dyes and hydrocarbons in environmentally safe manners Recent advancements in biochemical engineering OMICS and genetic modification and synthetic biology pave ways for identifying indicator microbial strains mechanisms of remediation and the development of tailor made microbe metabolites for future applications Microbial biotechnology in environmental monitoring and bioremediation thus represent a new way to rehabilitate and reconstruct damaged ecosystems This work summarizes the latest research in the field of environmental bioremediation and offers fascinating insights on the behaviours of these unique microorganisms It also presents exciting new perspectives for the application of microbes in environmental protection It is suitable for students scholars researchers and organizations involved in environmental protection **Proceedings of the ... Industrial Waste Conference** ,1994

Agency Strategic Plans Tennessee,2005 **Principles and Practices for Diesel Contaminated Soils** ,1995

Petroleum Abstracts ,1997 **Selected Water Resources Abstracts** ,1989 *California Base Closure News* ,1994-10

Environmental and Pipeline Engineering 2000 Rao Y. Surampalli, 2000 This collection contains 64 summaries of papers presented at the National Conference on Environmental and Pipeline Engineering held in Kansas City Missouri July 23 26 2000 **Book Review Index** , 2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index **JPT.**
Journal of Petroleum Technology , 1991

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