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To address mitigation activities of non-natural hazards, the State developed a Non-Natural Hazard Mitigation Annex. The document outlines the interim- and long-term strategies, goals, objectives and actions to address human caused and technological hazards. The document can be found at the following link: [NYS Non-Natural Hazard Mitigation Annex.pdf](#)

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## **DHSES - New York State Hazard Mitigation Plan**

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## **Natural and enhanced remediation systems (Book, 2002 ...**

Bioremediation is a process used to treat

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contaminated media, including water, soil and subsurface material, by altering environmental conditions to stimulate growth of microorganisms and degrade the target pollutants. In many cases, bioremediation is less expensive and more sustainable than other remediation alternatives. Biological treatment is a similar approach used to treat wastes ...

## **Bioremediation - Wikipedia**

This treatment is accomplished by naturally occurring endophytic microbes and enhanced aerobic/anaerobic biodegradation in the soil

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column.

## **Applied Natural Sciences, Inc.**

2014 New York State Hazard Mitigation Plan Introduction 1-2 Final Release Date January 4, 2014 The value of mitigation planning is increasingly evident as disasters seem to occur more frequently and the financial resources to rebuild remain scarce.

**2014 New York State Hazard Mitigation Plan** document is the 2010 update of the Kentucky Enhanced State Hazard Mitigation Plan. The Robert T. Stafford Disaster Relief and

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Emergency Assistance Act (Stafford Act), requires all states to undertake a process to identify vulnerabilities to losses from natural hazards such as flooding, tornadoes, and earthquakes. This process must also

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Enhanced Natural Attenuation of Contaminants;  
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projects are rarely solved with plug-and-play  
...

### **Sustainable Solutions For A Cleaner Planet - Parsons.com**

This layer depicts natural land areas greater than 100 acres in size throughout New York State. Natural land areas are defined using 2016 national land cover types including deciduous forest, evergreen forest, mixed forest, woody wetlands, shrub/scrub, herbaceous, barren land, and wetlands, and accounting for fragmentation by roads and railroads.



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## **Remedial Action Work Plan**

Schedule your radon mitigation system

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installation with SWAT. Conduct your post-install test to make sure radon levels have declined in your home. SWAT Environmental in New York Reviews. Anis S. - New York I just got my results back and they are under 0.3! I am very happy with the whole experience from the initial consult to the actual install.

### **Radon Mitigation Specialists in New York | SWAT Environmental**

Enhanced phosphorus treatment specifically refers to a measurable, significant improvement in phosphorus-treatment performance over the design methodology used

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for standard practices. As receiving water quality is the ultimate measure of stormwater management practice performance, enhanced performance is best defined by the following:

- 1.

Building on the success of bioremediation and phytoremediation technologies, *Natural and Enhanced Remediation Systems* explores remediation techniques that use the beneficial effects provided by Mother Nature. Written by a leader in the industry, the book

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provides state-of-the-art information on natural and enhanced remediation techniques such as mo

This volume represents an excellent description of the hottest topics in the field of phyto- and rhizoremediation. The book shows especially the importance of cooperation between plant and microorganisms, there is practically no phytoremediation without rhizoremediation. Newest approaches based on methods of molecular biology and genetic engineering are described, as well as plant science achievements.

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Natural attenuation has become an effective and low-cost alternative to more expensive engineered remediation. This new edition updates the principles and fundamentals of natural attenuation of contaminants with a broader view of the field. It includes new methods for evaluating natural attenuation mechanisms and microbial activity at the lab and field scales. Case studies, actual treatments and protocols, theoretical processes, case studies, numerical models, and legal aspects in the natural attenuation of organic and inorganic contaminants are

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examined. Challenges and future directions for the implementation of natural attenuation and enhanced remediation techniques are also considered.

In Situ Remediation Engineering provides a comprehensive guide to the design and implementation of reactive zone methods for treatment of all major classes of groundwater contamination. It teaches the fundamentals that underlie development of cost-effective reactive zone strategies, guides the selection of cost-effective remedial strategies and provides environmental

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engineers and scientists with tools to achieve optimal deployment of source area, reactive barrier, and site-wide treatments. It offers extensive coverage of remedial system operation, discussing reagent injection strategies, interpretation of process monitoring results for biological and chemical reactive zone systems, and impacts of treatment processes on aquifer hydraulic characteristics.

As we transition into the 21st century, it is apparent that this is an exciting time for environmental engineers and scientists

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studying remediation technologies. There has been a rapid development of new ways to clean-up polluted groundwater. Research activities of the past and next 10 years will have a dramatic impact on the quality of the subsurface environment for the next century. In 20, or even 10 years from now, our approach to subsurface remediation will probably be vastly different than it is today. Many of the emerging technologies presented in this book will form the basis of standard remediation practices of the future. Physicochemical Groundwater Remediation presents detailed information on multiple



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emerging technologies for the remediation of the contaminated subsurface environment. All of these technologies apply our knowledge of physical and chemical processes to clean up ground water and the unsaturated zone, and many (if not all) of these emerging technologies will help define standard practices in the future. These technologies include in situ sorptive and reactive treatment walls, surfactant-enhanced aquifer remediation, optimization analyses for remediation system design, chemical, electrochemical, and biochemical remediation processes, and monitored natural attenuation.

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You will learn how palladium catalyzes the dehalogenation of chlorinated solvents. You will find out how barometric pumping can naturally remove significant quantities of volatile organic pollutants from shallow ground water and the unsaturated zone. You can learn about mobilizing non-aqueous phase liquids (NAPLs) without risking significant downward migration of the NAPL. You can find out how processes such as electroosmosis and electromigration can be exploited for groundwater remediation purposes and how zero-valent iron and zeolite treatment walls can be used in situ to treat and control

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contaminant plume migration. Contributors to this book are experts in groundwater remediation processes, and they represent industry, consulting, academia, and government. If your work involves the clean up of contaminated soil and groundwater, this book is an essential reference to keep you up to date on the most promising new developments in remediation research.

A ubiquitous, largely overlooked groundwater contaminant, 1,4-dioxane escaped notice by almost everyone until the late 1990s. While some dismissed 1,4-dioxane because it was not

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regulated, others were concerned and required testing and remediation at sites they oversaw. Drawing years of 1,4-dioxane research into a convenient resource, Environmental Investigation and Remediation: 1,4-Dioxane and other Solvent Stabilizers profiles the nature of 1,4-dioxane and several dozen other solvent stabilizer compounds. The author takes an approach he calls "contaminant archeology", i.e., reviewing the history of the contaminating chemical's use in the industrial workplace at the site of release and how those uses impart chemical characteristics to the waste that

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affects its fate and transport properties. The book examines the uses, environmental fate, laboratory analysis, toxicology, risk assessment, and treatment of 1,4-dioxane in extensive detail. It provides case studies that document the contaminant migration, regulation, treatment, and legal aspects of 1,4-dioxane releases. It also describes the controversy over interpretation of 1,4-dioxane's toxicology and associated risk, as well as the corresponding disparity in states' regulation of 1,4-dioxane. A final chapter examines the policy implications of emerging contaminants like 1,4-dioxane, with

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discussion of opportunities to improve the regulatory and remedial response to this persistent contaminant in the face of toxicological uncertainty. Mobility, persistence, and treatment challenges combine to make 1,4-dioxane a particularly vexing contaminant. It is more mobile than any other contaminant you are likely to find at solvent release sites. Filled with case studies, equations, tables, figures, and citations, the book supplies a wide range of information on 1,4-dioxane. It then provides passive and active remediation strategies and treatment technologies for 1,4-dioxane in groundwater

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and provides you with the technical resources to help you decide which are appropriate for your site. For more information about Thomase Mohr and his book, go to <http://www.The14DioxaneBook.com>

In situ treatments involving the arrangement of contact between prospective reactants in complex porous media require a refined understanding of solute migration. However, the tools and methods used to predict and control fluid movement in the subsurface need significant improvement. Practitioners and regulators must develop novel methods to

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achieve an advanced understanding of treatment mechanisms. Remediation Hydraulics addresses the need to predict and control fluid movement in the subsurface. It demonstrates how to conduct realistic assessments of contaminant plume structure and achieve contact between injected reagents and target compounds. The book describes both the advection-dispersion and continuous random walk theories of mass transport as well as explains the practical implications of each theory in remedial system design. In addition, it devotes an entire section to the development of conceptual site models and



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hydrostratigraphic characterization techniques that will aid practitioners in assessing the role of depositional environments in patterning groundwater flows and containment distributions. Based the authors' sound experience at over one hundred groundwater treatment projects, this book provides an arsenal of relevant theories and practical applications to aid practitioners and regulators in the prediction of fluid movement in the subsurface as well as in the design of pilot to full-scale remediation systems.

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Put together by a team of scientists, engineers, regulators, and lawyers, the Chromium(VI) Handbook consolidates the latest literature on this topic. The broad scope of this book fills the need for a comprehensive resource on chromium(VI), improving the knowledge of this contaminant at a time when the extent and degree of the problem is still being

This book provides a comprehensive overview of innovative remediation techniques and strategies for soils contaminated by heavy metals or organic compounds (e.g. petroleum

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hydrocarbons, NAPLs and chlorinated organic compounds). It discusses various novel chemical remediation approaches (in-situ and ex-situ) used alone and in combination with physical and/or thermal treatment. Further, it addresses the recovery of NAPLs, reuse of leaching solutions, and in-situ chemical reduction and oxidation, and explores the chemical enhancement of physical NAPLs recovery from both practical and theoretical perspectives. Also presenting the state-of-the-art in waste-assisted bioremediation to improve soil quality and the remediation of petroleum hydrocarbons, the book is a

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valuable resource for students, researchers and R&D professionals in industry engaged in the treatment of contaminated soils.

The soil is being contaminated continuously by a large number of pollutants. Among them, heavy metals are an exclusive group of toxicants because they are stable and difficult to disseminate into non-toxic forms. The ever-increasing concentrations of such pollutants in the soil are considered serious threats toward everyone's health and the environment. Many techniques are used to clean, eliminate, obliterate or sequester

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these hazardous pollutants from the soil. However, these techniques can be costly, labor intensive, and often disquieting. Phytoremediation is a simple, cost effective, environmental friendly and fast-emerging new technology for eliminating toxic heavy metals and other related soil pollutants. Soil Remediation and Plants provides a common platform for biologists, agricultural engineers, environmental scientists, and chemists, working with a common aim of finding sustainable solutions to various environmental issues. The book provides an overview of ecosystem approaches and

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phytotechnologies and their cumulative significance in relation to solving various environmental problems. Identifies the molecular mechanisms through which plants are able to remediate pollutants from the soil Examines the challenges and possibilities towards the various phytoremediation candidates Includes the latest research and ongoing progress in phytoremediation

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