

# THE IMPORTANCE OF Environmental Management in Mining

The responsible management of natural resources and ecosystems is central to a sustainable future.

The IGF Guidance for Governments, Environmental Management and Mining Governance identifies four key issues to consider in the broader management of the environment in mining.

## ISSUE #1: WATER

Effectively and equitably manage the quantity and quality of water resources for all users and the ecosystems they depend on.

Governments must regulate the extraction of valuable water resources at the watershed level and manage water use, water discharges and water quality.

Mining operations use large amounts of water to:

- Process ore
- Supply large operations
- Transport dust
- Transport slurry

## ISSUE #2: MINE WASTE

Ensure the long-term physical and chemical stability of all mine waste, including:

- Waste rock
- Tailings and related facilities
- Spent heap leach pads and facilities
- Sludges and precipitates from water treatment in minerals processing
- Dust

Waste systems and facilities must be engineered to eliminate the risk of failure and minimize the risk and exposure to people, land, agriculture, vegetation, and animals.

## ISSUE #3: EMERGENCY PREPAREDNESS & RESPONSE

Ensure that all stakeholders are well prepared to prevent, address, respond to and recover from emergencies.

National governments must ensure that all potentially affected stakeholders identify and understand potential risks across the mine life cycle, and that they are well prepared to address and respond to them. Emergency preparedness and response programs should include:

- Risk assessment
- Preparedness and prevention plans
- Response plans
- Recovery plans
- Crisis communications plans

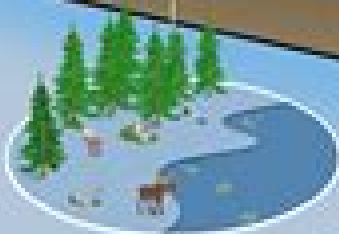


## ISSUE #4: BIODIVERSITY

Protect biodiversity, ecosystems and the services they provide.

Mining projects can have direct and indirect impacts on biodiversity and ecosystem services, including:

- Habitat loss
- Ecosystem fragmentation and degradation
- Water, air, soil and noise pollution
- Human population growth
- Increased hunting, fishing, gathering and land clearance for agriculture
- Unintentional introduction of invasive species



National governments should enact policies that follow the mitigation hierarchy to avoid and minimize these impacts.



IGF

INTERGOVERNMENTAL FORUM  
on Mining, Minerals, Metals and  
Sustainable Development

# Tailings Containmentbest Practice Environmental Management In Mining

**Prof. Dr. Bilal Semih Bozdemir**



## **Tailings Containmentbest Practice Environmental Management In Mining:**

**A Directory of Impact Assessment Guidelines** International Institute for Environment and Development,1998

*Sustainable Management of Mining Operations* J. A. Botin,2009 The pressure is on to enhance corporate reputations achieve higher operational efficiency improve planning and control gain access to mineral resources build trust with stakeholders attract financing recruit and retain a quality workforce and lower costs Sustainable Management of Mining Operations provides a holistic practical approach to achieving these goals The key say the authors is to create a culture within the organization that recognizes the value of sustainability by effectively integrating economic environmental and social considerations Each section of this book focuses on sustainable management from a different perspective management level or stage of the mine life cycle You ll benefit from real life practical insights from 27 internationally respected authors whose job titles have encompassed everything from CEO to master mechanic

**Mining Environment Management Manual** N.C. Saxena,Gurdeep Singh,Pramod Pathak,B.C. Sarkar,A.K. Pal,2004-06-01 This Mining Environment Management Manual is developed for the benefit of the entire mining industry in the Country The Manual has been designed in such a manner that it can be easily used by the engineers and environmentalists in the mining complexes in their efforts for the management of mining environment The Manual presents the existing status and comprehensive overview of all the aspects of mining environment Since environment is a developing subject the user of the Manual is suggested to wherever necessary consult the web sites of MOEF and other concerned organizations for the latest status The manual in nineteen chapters outlines the following for the benefit of the users 1 Broad details of the mineral mining industry in the country 2 Policies legislation standards and procedures for establishing and operating the mines covering an environmental overview of the national policies and the policies of the mining companies mining and environmental legislations and standards site selection environmental clearance forestry clearance and the various formats to be filled or establishing and operating the mines 3 Preparation of the environmental management plans EMPs of the mining projects 4 Environmental monitoring 5 Mining methods commonly used in the Indian coal and non coal mineral industry 6 Environmental impacts of mining on society ecology land water regime and atmosphere 7 Environmental impact assessment EIA 8 Environmental management measures required in mineral mining including the assessment of quality of life development of R R packages development of surface and underground water bodies replantation of trees formation and management of soil and overburden dumps environmental aspects of blasting land reclamation and rehabilitation planning mine fires acid mine drainage inundation noise modeling etc 9 Mine closure comprising of legislative and social necessity of mine closure in the Indian context mine closure planning for underground and opencast mines and format for mine closure planning in project report 10 Procedure for environmental performance auditing and evaluation 11 Land acquisition and optimization of land requirement for mining and associated activities and rehabilitation and resettlement 12 Land use planning in mining areas 13 Risk assessment and disaster

management 14 Environmental aspects of tailing storage 15 Use of geographical information system in environmental management in mining areas 16 Utilization of fly ash in mines 17 Environmental economics 18 Roles of executives in environmental management in mining areas 19 Do s and don ts in environmental management planning and implementation

The manual in simple English aims at to attract attention of one and all concerned with the management of mining environment The manual will be useful to the following categories of the people in the mining complexes in the Country and Abroad Mine planners in planning and designing of the mining activities and integration of environmental management measures in the mining methods Mine operators in implementing the environmental management measures monitoring and compliance of legislation Regulatory agencies and their executives in developing a better understanding of the mining environment related aspects and implementing the legislation Research workers in planning designing and undertaking research and development activities Educationists in imparting the knowledge and know how to the participants in various academic and human resource development programs The Non Governmental Organizations NGOs in developing a better understanding of the mining environment and assisting the mineral industry in effective implementation of the environmental management efforts The people in the mining complexes in developing the understanding of various aspects of the management of mining environment In addition the Manual will be an important addition to the knowledge base in the libraries of all the institutions and organizations associated with mining and environmental management The user is advised to read the Manual carefully and understand the various topics discussed and then use their own wisdom and the suggestions made in the Manual in design planning implementation and monitoring of the mining activities The legislative aspect of mining environmental management is dynamic and time to time changes are made in the Acts Rules and Regulations by the Central and State Governments The user is therefore advised to get abreast with the latest developments through the web sites of the MOEF and the Central and State Pollution Control Boards and other regulatory agencies e g DGMS IBM etc

**Tailings and Mine Waste 2001** A. A. Balkema Publishers,2022-01-26 These papers focus on mine and mill tillings and mine waste The work also contains information on subjects related to regulations technical capacities and developments This guide identifies the current and future issues facing the mining and enviromental concerns      **Mine Wastes** Bernd Lottermoser,2013-04-18 This book is not designed to be an exhaustive work on mine wastes It aims to serve undergraduate students who wish to gain an overview and an understanding of wastes produced in the mineral industry An introductory textbook addressing the science of such wastes is not available to students despite the importance of the mineral industry as a resource wealth and job provider Also the growing importance of the topics mine wastes mine site pollution and mine site rehabilitation in universities research or ganizations and industry requires a textbook suitable for undergraduate students Un til recently undergraduate earth science courses tended to follow rather dassicallines focused on the teaching of palaeontology crystallography mineralogy petrology stratigraphy sedimentology structural geology and ore deposit geology

However to day and in the future earth science teachers and students also need to be familiar with other subject areas In particular earth science curriculums need to address land and water degradation as well as rehabilitation issues These topics are becoming more important to society and an increasing number of earth science students are pursuing career paths in this sector Mine site rehabilitation and mine waste science are exam ples of newly emerging disciplines This book has arisen out of teaching mine waste science to undergraduate and gradu ate science students and the frustration at having no appropriate text which documents the scientific fundamentals of such wastes Environmental Management in the Australian Minerals and Energy Industries David Robert Mulligan,1996 Color map on endpapers **Mine Wastes** Bernd G. Lottermoser,2007 This book provides comprehensive up to date overview of the accumulation of wastes at mine including sulfidic mine wastes mine water tailings cyanidation wastes of gold silver ores radioactive wastes of uranium ores and wastes of phosphate and potash ores The updated second edition includes new case studies presents crucial aspects of mine wastes as scientific issues reflects major developments and contemporary issues in mine waste science additional figures and an updated reference list Surface Mining Operations in Oil Sands C. A. Poveda,M. G. Lipsett,2014-07-23 The creation of the World Commission on Environment and Development WCED commonly known as the Brundtland Commission and the publication in 1987 of its report Our Common Future marked a turning point towards finding the balance among society economy and environment Since then governments have improved regulations new standards have been developed management and process practices have addressed potential gaps public and private organisations have taken initiative through the creation of committees and programs and research covering all areas of sustainable development has become a priority for academics and practitioners These different sources serve as the basis for a pre selection process of sustainable development indicators SDIs While some sources do not specifically address certain industries the pre selection process suggested in this book studies and analyses each SDI s resource and the possible applicability of already identified indicators An assertive set of SDIs is not solely based on regulatory systems as measuring sustainability cannot become a bureaucratic process and neither can any other SDI s source single handedly determine or mandate the final set of indicators as the real objective is to assist decision makers and effectively engage stakeholders This book presents an analysis of six different sources for pre selecting SDIs accompanied by a methodology to then finalise with a set of SDIs for the surface mining operations in oil sands projects Surface mining projects are complex operations with several social economic environmental and health impacts As the government and oil sands developers are turning towards increasing productivity with a more conscious sustainable development approach a pre selection of SDIs is required to assist further formal multi criteria selection processes Tailings Containment Environmental Protection Agency, and Supervising Scientist,1995 Mining Engineering: Open Pit Techniques Prof. Dr. Bilal Semih Bozdemir, Mining Engineering Open Pit Techniques Introduction to Open Pit Mining Geological Considerations Ore and Waste Characterization Pit Design and Planning Survey and

Geotechnical Assessments Drilling and Blasting Techniques Excavation and Loading Equipment Haul Road Construction Overburden and Waste Management Dewatering and Drainage Systems Environmental Regulations and Compliance Safety Protocols in Open Pit Mines Productivity and Efficiency Optimization Technological Advancements in Open Pit Mining ,

**Mine Closure** N.C. Saxena, 2008-09-01 Mining is basically an intermediate use of land and it causes various impacts on all the components of environment In most situations the impacts on land are severe and may cause the land to become useless for any economic use after mining Since the mining companies take land areas which have been in various uses before the onset of mining activities it should have been obligatory for the companies to develop the land areas for uses most suitable for the economic activities after mining Though this was known right from the inception of the mining activities the efforts towards developing the land after mining were negligible This has resulted in devastation of mined out land in many locations in the country Keeping in view the importance and the necessity of development of land areas legislation have been formulated for mine closure The legislation are recent not many mines have been closed in accordance with the provisions therein A lot of work is still required to be done to make mine closure really effective All over the world the importance of the mine closure is being realized due mainly to the following reasons Closure planning at all the stages in a mine s life is important to the economics of a mine and such a planning results in a large cost savings In this book the following aspects of mine closure planning and implementation in the opencast and underground mines with special reference to the mining situations in the India have been outlined 1 Impacts of mining on environmental components and their roles in mine closure planning 2 Legal social and economic necessity of mine closure 3 Land use planning as a tool for mine closure planning and implementation 4 How to incorporate mine closure in mine planning 5 Mine closure planning in underground and opencast mines 6 Implications of mine fires in mine closure 7 Mine closure planning for small mines 8 Taking care of the abandoned mines i e closure of abandoned mines 9 Economics of mine closure 10 Management of ecology during mine closure The book is expected to be useful to the practical mining engineers and environmen talists in mine planning and design It should also be useful to the researchers and students of mining and environment **Sustainability Assessment** Cesar A.

Poveda, 2017-10-23 This book makes the case for the development and implementation of environmental and sustainability rating systems ESRs in new industry contexts including energy heavy and light industries manufacturing transportation mining and oil and gas **Introduction to Mining Engineering - Comprehensive Volume 2** Bilal Semih Bozdemir, 2024-09-24

This book explains the topics related to the introduction to Mining Engineering in detail It has been prepared especially for the benefit of students and academicians studying at the Faculty of Mining The topics have been prepared in order and by taking into consideration the important issues This book consists of two volumes and this is the second volume **Tailings**

**Containment** , 1995 *Mineral Processing* Prof. Dr. Bilal Semih Bozdemir, Mineral Processing in Mining Engineering Introduction to Mineral Processing Importance of Mineral Processing Ore Characteristics and Mineralogy Comminution

Processes Crushing Techniques Grinding Methods Screening and Classification Gravity Separation Techniques Density based Separation Magnetic Separation Electrostatic Separation Froth Flotation Reagent Selection in Flotation Flotation Circuits and Cells Dewatering and Thickening Filtration Techniques Centrifugation Drying and Calcination Leaching and Dissolution Hydrometallurgical Processes Pyrometallurgical Processes Solid Liquid Separation Tailings Management Environmental Considerations Dust Control and Ventilation Plant Design and Layout Sampling and Analysis Instrumentation and Control Process Optimization Energy Efficiency in Mineral Processing Water Management Automation and Digitalization Maintenance and Reliability Safety in Mineral Processing Emerging Technologies Sustainability in Mineral Processing Research and Innovation Case Studies in Mineral Processing Future Trends and Challenges Conclusions and Key Takeaways

**Environmental Code of Practice for Metal Mines** Canada. Environment Canada, 2009 Describes operational activities and associated environmental concerns of this industrial sector The document applies to the complete life cycle of mining from exploration to mine closure and environmental management practices are recommended to mitigate the identified environmental concerns The recommended practices in the Code include the development and implementation of environmental management tools the management of wastewater and mining wastes and the prevention and control of environmental releases to air water and land The Code of Practice will be adopted by Environment Canada and others as a guidance document that recommends environmental protection practices for the mine life cycle The Code applies specifically to metal mines but will provide useful guidance for all sectors of the mining industry

**Guidelines for Mine Waste Dump and Stockpile Design** Mark Hawley, 2017-04 Guidelines for Mine Waste Dump and Stockpile Design is a comprehensive practical guide to the investigation design operation and monitoring of mine waste dumps dragline spoils and major stockpiles associated with large open pit mines These facilities are some of the largest man made structures on Earth and while most have performed very well there are cases where instabilities have occurred with severe consequences including loss of life and extensive environmental and economic damage Developed and written by industry experts with extensive knowledge and experience this book is an initiative of the Large Open Pit LOP Project It comprises 16 chapters that follow the life cycle of a mine waste dump dragline spoil or stockpile from site selection to closure and reclamation It describes the investigation and design process introduces a comprehensive stability rating and hazard classification system provides guidance on acceptability criteria and sets out the key elements of stability and runout analysis Chapters on site and material characterisation surface water and groundwater characterisation and management risk assessment operations and monitoring management of ARD emerging technologies and closure are included A chapter is also dedicated to the analysis and design of dragline spoils Guidelines for Mine Waste Dump and Stockpile Design summarises the current state of practice and provides insight and guidance to mine operators geotechnical engineers mining engineers hydrogeologists geologists and other individuals that are responsible at the mine site level for ensuring the stability and performance of these structures

Readership includes mining engineers geotechnical engineers civil engineers engineering geologists hydrogeologists environmental scientists and other professionals involved in the site selection investigation design permitting construction operation monitoring closure and reclamation of mine waste dumps and stockpiles **Mining Sector** Amelia Scott, AI, 2025-03-03 Mining Sector explores the crucial intersection of global mineral demand and the environmental and social costs of resource extraction It examines the mining industry's impact on the environment and global economics emphasizing the need to balance societal needs with responsible resource management Intriguingly the book traces the evolution of mining from artisanal methods to large scale industrial operations highlighting the growing awareness of environmental stewardship The book progresses logically starting with fundamental concepts like mineral resources and ore deposits then delving into extraction methods environmental concerns and regulatory frameworks It uniquely combines technical information on mining processes with critical analysis of environmental and social effects A central argument is the imperative shift towards sustainable mining practices for environmental protection and economic stability The analysis is supported by scientific studies economic data and case studies Ultimately the book advocates for technological innovation policy reform and corporate social responsibility to achieve sustainable mining offering a comprehensive overview valuable for students researchers and policymakers interested in the environmental and economic impacts of the mining sector

**Proceedings of the International Symposium on Beneficiation, Agglomeration and Environment** ,1999



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