

Contents

Part I Prediction of Effects and Treatment

The Predictive Assessment of the Migration of Leachate in the Subsoils Surrounding Mine Tailing and Dredging Spoil Sites M. LOXHAM (With 16 Figures)	3
Pre-Mine Prediction of Acid Mine Drainage K. D. FERGUSON and P. M. ERICKSON (With 3 Figures)	24
Methods for the Treatment of Contaminated Dredged Sediments W. J. Th. VAN GEMERT, J. QUAKERNAAT, and H. J. VAN VEEN (With 6 Figures)	44
Classification and Dewatering of Sludges J. WERTHER (With 17 Figures)	65
Stabilization of Dredged Mud W. CALMANO (With 6 Figures)	80
Integrated Biological Systems for Effluent Treatment from Mine and Mill Tailings H. VON MICHAELIS	99
Ecological Engineering: Biological and Geochemical Aspects Phase I Experiments M. KALIN and R. O. VAN EVERDINGEN (With 1 Figure)	114

Part II Restoration and Revegetation

Rehabilitation Measures at the Rum Jungle Mine Site J. R. HARRIES and A. I. M. RITCHIE (With 7 Figures)	131
---	-----

Mine Tailings Reclamation. Inco Limited's Experience with the Reclaiming of Sulphide Tailings in the Sudbury Area, Ontario, Canada T. H. PETERS	152
Development of a Revegetation Programme for Copper and Sulphide-Bearing Mine Wastes in the Humid Tropics I. ARCHER, N. A. MARSHMAN, and W. SALOMONS (With 3 Figures)	166
Biological Engineering of Marine Tailings Beds D. V. ELLIS and L. A. TAYLOR (With 6 Figures) . . .	185
Reclamation of Pyritic Mine Spoil Using Contaminated Dredged Material J. W. SIMMERS, G. S. WILHELM, J. M. MARQUENIE, R. G. RHETT, and S. H. KAY (With 3 Figures) . . .	208
 Part III Management	
Towards a Long-Term Balance Between Economics and Environmental Protection M. FABER and G. WAGENHALS (With 8 Figures)	227
Rotterdam Dredged Material: Approach to Handling J. P. J. NIJSSEN (With 15 Figures)	243
Environmental Management of New Mining Operations in Developed Countries: The Regional Copper-Nickel Study I. M. RITCHIE (With 7 Figures)	282
Decision-Making Framework for Management of Dredged Material Disposal C. R. LEE and R. K. PEDDICORD (With 14 Figures) .	324
Environmental Management of New Mining Operations R. J. HIGGINS (With 4 Figures)	372
Subject Index	393