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7.3.4. Current limitations and/or bottlenecks; Chapter 3: Overview on treatment and disposal options; 1. Introduction; 2. Key boundary conditions for treatment; 3. General treatment and disposal technologies; 3.1. Definition and process principles; 3.2. Technical criteria of process principles; 4. Treatment and disposal chains; 4.1. Technical feasible treatment and disposal chains; Chapter 4: Description of the available technology for treatment and disposal of dredged material; 1. Introduction; 2. In situ chemical techniques 2.1. Technical criteria/applicability 2.2. State of the art/experience; 2.3. Environmental impacts & benefits; 2.4. Economic aspects; 2.5. Social aspects; 3. In situ biological techniques; 3.1. Technical criteria/applicability; 3.2. State of the art/experience; 3.3. Environmental impacts & benefits; 3.4. Economic aspects; 3.5. Social aspects; 4. Physical in situ techniques: capping of contaminated sediments; 4.1. Technical criteria/applicability; 4.2. State of the art/experience; 4.3. Environmental impacts & benefits; 4.4. Economic aspects; 4.5. Social aspects; 5. Separation 5.1. Technical criteria/applicability 5.2. State of the art/experience; 5.3. Environmental impacts & benefits; 5.4. Economic aspects; 5.5. Social aspects; 6. Natural dewatering; 6.1. Technical criteria/applicability; 6.2. State of the art/experience; 6.3. Environmental impacts & benefits; 6.4. Economic aspects; 6.5. Social aspects; 7. Mechanical dewatering; 7.1. Technical criteria/applicability; 7.2. State of the art/experience; 7.3. Environmental aspects; 7.4. Economic aspects; 8. Thermal desorption; 8.1. Introduction into thermal treatment technologies; 8.2. Technical criteria/applicability 8.3. State of the art/experience

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Sommario/riassunto

Sediment and Dredged Material Treatment forms the second volume in the SEDNET mini-series, Sustainable Management of Sediment Resources. The volume asks "How can you achieve sustainable sediment treatment?". In fact, before this question can be answered, many steps have to be considered beforehand. This book tackles the questions and issues which arise when looking at the various steps involved. This volume is applicable to a wide audience, from students at the graduate level, to experienced researchers and laboratory personnel in academia, industry and government. This v

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