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Wastewater Characterization -- 1.0. Introduction -- 2.0. Flow
Projections -- 3.0. Raw Wastewater Characteristics -- 4.0. Detailed
Influent Characteristics -- 5.0. References -- Chapter 3. Preliminary |

Treatment -- 1.0. Introduction -- 2.0. Screening -- 3.0. Grit Removal -- Chapter 4. Primary Treatment -- 1.0. Introduction -- 2.0. Conventional Sedimentation -- 3.0. Fine Screens -- 4.0. Primary Filtration -- 5.0. High-Rate Clarification -- 6.0. References -- Chapter 5. Biological Treatment -- 1.0. Suspended Growth Biological Treatment -- 1.1. Introduction -- 1.2. Suspended Growth Process Configurations and Types -- 1.3. Design of Suspended Growth Processes for Carbon Removal -- 1.3.1. Process Selection and Design

Sommario/riassunto

This publication, produced by the Water Environment Federation (WEF), serves as a comprehensive technical guide for water resource recovery facility design and advanced wastewater treatment processes. It provides detailed engineering principles, methodologies, and standards for professionals in the water quality and environmental engineering sectors. Key topics include raw wastewater characteristics, biological and chemical treatment processes, solids management, disinfection techniques, and emerging technologies such as biofilm reactors and membrane processes. The content is developed by an expert task force and intended for engineers, environmental scientists, and water quality professionals seeking best practices and innovative solutions for wastewater treatment and resource recovery. The guide emphasizes practical application while adhering to recognized industry standards.
