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Chapter 2 — Nature of Industrial Wastewaters 12

Discussion on a number of the key industrial wastewater characteristics which may impact on plant design and successful plant operation. Tables showing the characteristics of wastewaters arising from a variety of industries are included. A portion of this information is on wastewaters not usually found outside of tropical or sub-tropical regions. It is intended this chapter becomes a reference for professionals seeking information on wastewaters.

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Brief description of the possible treatment trains in a sewage treatment plant — based on the continuous-flow bioreactor and cyclic bioreactor. This is intended to provide a framework for comparison so that readers can more readily appreciate the differences and similarities between sewage treatment plants (STPs) and industrial wastewater treatment plants (IWTPs).

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The preliminary and secondary treatment stages generate sludges. These may be organic, inorganic, or a combination of the two. This chapter discusses sludge management approaches commonly adopted at IWTPs.

Chapters 4, 5 and 6 draw on experiences with actual wastewaters to illustrate points made in the discussions. These three chapters and Chapters 7–10 are provided with numerous photographs of plants, equipment, and site conditions so that the reader can develop a "feel" for the issues inherent in industrial wastewater treatment.

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