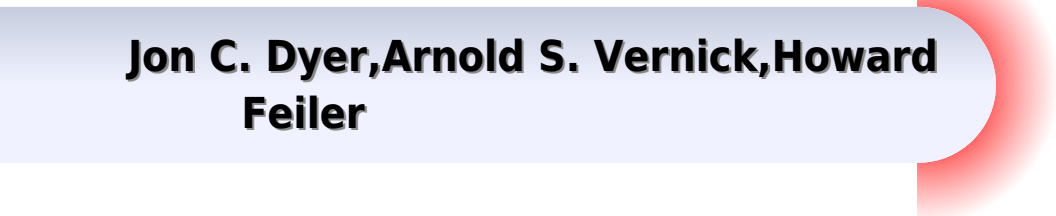


Pretreatment of Industrial Wastewaters

- Industrial wastewaters must be pretreated prior to being discharged to municipal sewer system
- Approach is to remove materials that will not be treated by municipal system
- Local authority must monitor and regulate industrial discharges
- Pretreatment requirements set by U.S. EPA

Pretreatment Of Industrial Wastewaters

**Jon C. Dyer, Arnold S. Vernick, Howard
Feiler**



Pretreatment Of Industrial Wastewaters:

Pretreatment of Industrial Wastewaters A. D. Andreiadakis, D. G. Christoulas, 1994 This volume contains papers that cover strategic aspects of wastewater pretreatment programmes impacts on municipal treatment works case studies of pretreatment schemes characterization of industrial wastewaters and treatments for strong and toxic industrial wastewaters

Handbook of Industrial Wastes Pretreatment Jon C. Dyer, Arnold S. Vernick, Howard Feiler, 1981 **Biological**

Pretreatment of Industrial Wastewaters for Volatile Fatty Acid Removal Karen Marie Bodach, 2006 Sioux City wastewater treatment plant WWTP has experienced filamentous bacterial growth in their secondary clarifiers The filamentous bacteria create bulking sludge which causes solids to remain in suspension thereby creating high solids discharge in the WWTP effluent Iowa State University ISU was contracted to conduct a three phase study to investigate the WWTP operational problems Phase I was a paper study that examined the causes of high volatile fatty acid VFA loading into the WWTP Phase II characterized four selected industrial wastewaters in order to determine appropriate wastewater pretreatment techniques Phase III involved the aerobic biological pretreatment of the four industrial wastewaters in laboratory scale bioreactors to remove VFAs Phase II and III are evaluated in this report The four industrial wastewaters selected were Feed Energy which produces acid oil that is used as a livestock ingredient Darling which is a rendering facility Menu Food manufactures pet food and John Morrell a hog slaughtering facility that manufactures pork products in Phase II industrial wastewater samples were characterized based on VFA soluble chemical oxygen demand SCOD biochemical oxygen demand BOD and volatile suspended solids VSS concentrations Wastewater pretreatment recommendations were given to Sioux City WWTP and the WWTP decided that aerobic biological pretreatment should be tested for all four selected industries in Phase III The Phase III results showed that the Feed Energy wastewater was not successfully pretreated aerobically to remove VFAs with HRTs ranging from 3 hours to 6 days The Darling condensate wastewater achieved VFA removals of 43 to 74% with HRTs ranging from 12 to 48 hours and a 95% VFA removal was possible at an 18 hour HRT with phosphorus supplementation VFA removals of 55% and 63% were achieved for the Menu Food wastewater with HRTs of 4 5 and 9 hours The John Morrell blood stick wastewater achieved VFA removals ranging from 25 to 71% with HRTs ranging from 12 to 24 hours

Pretreatment of Industrial Wastewaters II A. Andreiadakis, 1997 **Industrial Waste and Pretreatment in the Buffalo Municipal System** Kenneth Peck, United States. Environmental Protection Agency. Office of Research and Development, John C. Gorton, 1977 *A New Approach is Needed for the Federal Industrial Wastewater Pretreatment Program* United States. General Accounting Office, 1982 *New Developments in Industrial Wastewater Treatment* Aysen Türkman, O. Uslu, 2012-12-06 The main subject of the Workshop was the new developments about the cost effective treatment techniques for better removal efficiencies and discussion of policies for pollution control Although effluent water quality requirements differ from one country to another their application will be an efficient mean for water

pollution control Specific promotion should be provided for polluters to meet the effluent water quality requirements Results of pilot scale studies demonstrate the applicability of and advantages of sequencing batch reactor technology for pretreatment of industrial wastewaters Fixed film biological reactors offer the possibility to enrich slow growing specialized microorganisms by developing biofilms on support materials Physical chemical processes are used for the treatment of unusual and difficult industrial wastewaters and membrane technologies for the concentration and recovery of raw materials and by products in industries where the conventional treatment technologies are inappropriate or uneconomic Physical chemical processes give higher efficiencies when polymers are applied but the composition of these long chain chemicals is an important consideration Most developing countries suffer from severe environmental problems and shortage of energy and resources These countries urgently need simple inexpensive and integrated environmental protection system which combine wastewater treatment with recovery and reuse Anaerobic treatment offer many advantages in this respect Because recovery of substances from wastes serves twofold purpose of recycle and pollution control it must be applied where possible

An Introduction to Industrial Wastewater Collection and Treatment Engineering J. Paul Guyer, P.E., R.A.,2021-04-25 Introductory technical guidance for civil engineers environmental engineers mechanical engineers construction managers and wastewater treatment plant operators interested in industrial wastewater collection and treatment Here is what is discussed 1 OBJECTIVES 2 INDUSTRIAL POLLUTANTS 3 SOURCE CONTROL AND WASTE REDUCTION 4 WASTEWATER FLOWS AND CHARACTERISTICS 5 WASTEWATER COLLECTION 6 WASTEWATER TREATMENT 7 GUIDELINES FROM ACTUAL EXPERIENCE *Industrial Waste and Pretreatment in the Buffalo Municipal System* Kenneth Peck,United States. Environmental Protection Agency. Office of Research and Development,John C. Gorton,1977 Activated Sludge Technologies for Treating Industrial Wastewaters W. Wesley Eckenfelder,Joseph G. Cleary,2013-09-30 Technical information for using activated sludge to treat effluents from multiple industries Covers virtually all traditional and advanced methods as well as treatability and process modeling New methods for removing U S and European regulated microconstituents trace organics active pharmaceutical ingredients and other contaminants Explains advances in water reuse and plant retrofitting Useful for in house training This comprehensive book presents critical information on the applications of activated sludge for treating industrial wastewaters as well as other effluents that impact POTWs The book offers details on how advances in activated sludge can be deployed to meet more stringent discharge limits by explaining many novel variations of activated sludge and offering technical guidance on process modeling and optimization Special attention is given to emerging contaminants and water reuse strategies Case studies are drawn from the pharma food and shale gas industries Based on short courses taught by the authors as well as hundreds of hours of in plant consulting this book offers the tools to understand and modify the activated sludge process for superior and sustainable wastewater treatment From the Authors Preface After speaking with practitioners operators and engineers the authors felt a new text was needed to cover the

following developments the continued evolution of the activated sludge process and its numerous designs configurations and technology developments design of industrial water reuse systems to achieve industry sustainability goals changes from BOD TSS and nutrient removal to removal of specific organics toxicity microconstituents and more stringent effluent permit limits advances in process modeling tools that can be used in combination with treatability testing tools for plant design optimization and troubleshooting concerns over industrial wastewater discharge impacts to POTWs such as nitrification inhibition the impact of frac water and the fate of microconstituents through POTWs

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