

Processes	Process parameters	Water characteristics (TOC/DOC = mg L <sup>-1</sup> , SUVA = L mg <sup>-1</sup> m <sup>-1</sup> , alkalinity mg L <sup>-1</sup> as CaCO <sub>3</sub> )	Bulk removal	THM precursor removal	HAA precursor removal	Reference
UV/H <sub>2</sub> O <sub>2</sub>	UV: 500 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup>	DOC 1.4 - 2.0, SUVA 3.2 - 5.1	DOC -11% UV 24%	8%	DCAAFF: -35% TCAAFF: 8%	(37)
UV/H <sub>2</sub> O <sub>2</sub>	UV: 550 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup>	As above	DOC -6% UV 20%	44%	DCAAFF: -11% TCAAFF: 6%	(37)
UV/H <sub>2</sub> O <sub>2</sub>	UV: 1300 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup>	As above	DOC -8% UV 32%	48%	DCAAFF: -19% TCAAFF: 11%	(37)
UV/H <sub>2</sub> O <sub>2</sub>	UV: 3000 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup>	As above	DOC 20% UV 59%	73%	DCAAFF: -74% TCAAFF: 69%	(37)
BAC	3 days contact, EBCT 8.2 mins	As above	DOC 28% UV 22%	11%	DCAAFF: -11% TCAAFF: 8%	(37)
BAC	3 days contact, EBCT 8.2 mins	As above	DOC 15% UV 23%	-9%	DCAAFF: 29% TCAAFF: 46%	(37)
BAC	3 days contact, EBCT 8.2 mins	As above	DOC 13% UV 11%	6%	DCAAFF: -4% TCAAFF: 32%	(37)
BAC	3 days contact, EBCT 8.2 mins	As above	DOC 26% UV 28%	14%	DCAAFF: -1% TCAAFF: 2%	(37)
UV/H <sub>2</sub> O <sub>2</sub> + BAC	UV: 500 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup> , BAC as above	As above	DOC 51% UV 60%	42%	DCAAFF: 37% TCAAFF: 50%	(37)
UV/H <sub>2</sub> O <sub>2</sub> + BAC	UV: 550 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup> , BAC as above	As above	DOC 38% UV 45%	56%	DCAAFF: 3% TCAAFF: 42%	(37)
UV/H <sub>2</sub> O <sub>2</sub> + BAC	UV: 1300 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup> , BAC as above	As above	DOC 67% UV 70%	58%	DCAAFF: 40% TCAAFF: 71%	(37)
UV/H <sub>2</sub> O <sub>2</sub> + BAC	UV: 3000 mJ cm <sup>-2</sup> , H <sub>2</sub> O <sub>2</sub> : 10-20 mg L <sup>-1</sup> , BAC as above	As above	DOC 80% UV 81%	85%	DCAAFF: 63% TCAAFF: 85%	(37)
O <sub>3</sub> -UV	UV: 0.13 W s cm <sup>-2</sup> , ozone consumption 0.004 mg mL <sup>-1</sup>	TOC: 1.8, alkalinity 4, pH 6.6, SUVA 4	DOC 17% UV: 90%	48%	48%	(38)

# Removal Of Dbp Precursor By Granular Activated Carbon Absorption

**Sylvia E. Barrett**



## **Removal Of Dbp Precursor By Granular Activated Carbon Absorption:**

**Removal of DBP Precursors by GAC Adsorption** Douglas M. Owen, AWWA Research Foundation, 1998      DBP Formation Control by Modified Activated Carbons Tanju Karanfil, 2007 The main objectives of this study were 1 to conduct a systematic investigation for developing a fundamental understanding of how activated carbons should be tailored for enhanced removal of DOM from natural waters and 2 to investigate the effectiveness of some carbon tailoring approaches for DBP formation control at typical drinking water treatment conditions Using a three phase approach numerous results are presented which used both raw and treated water DOM Complying with the stringent DBP regulations require water utilities consider various approaches The optimum solution will probably be system specific Specific approaches are discussed for a utility who considers using GAC adsorption for DBP precursor control      **Protocol for Equipment Verification Testing**

**for Removal of Precursors to Disinfection Byproducts ,      Disinfection Byproducts in Drinking Water** Yuefeng Xie, 2003-08-27 The EPA has established regulations which classify four types of disinfection byproducts THMs haloacetic acids bromate and chlorite and requires public water systems limit these byproducts to specific levels Most of the information required to comply with these standards is either scattered throughout the literature or derived from conference

**Disinfection By-Products in Drinking Water** M Fielding, M Farrimond, 1999-01-01 This volume brings together contributors from water regulators and water suppliers in Europe and North America to discuss the main issues associated with reaching a cost effective balance between microbial and chemical risks Overviews of research are presented alongside illuminating case studies of the practical approaches taken by water companies and regulators on both sides of the Atlantic

Enhanced coagulation and enhanced precipitative softening guidance manual , 1999      **CALFED Bay-Delta Program Programmatic EIS, Long-Term Comprehensive Plan to Restore Ecosystem Health and Improve Water Management, San Francisco Bay - Sacramento/San Joaquin River Bay-Delta D, Dsum; Program Goals and Objectives, Dapp1; No Action Alternative, , 2000      Handbook of Environmental Engineering** Frank R.

Spellman, 2015-09-08 In his latest book the Handbook of Environmental Engineering esteemed author Frank Spellman provides a practical view of pollution and its impact on the natural environment Driven by the hope of a sustainable future he stresses the importance of environmental law and resource sustainability and offers a wealth of information based on real world      **Small System Compliance Technology List for the Stage 1 DBP [disinfection Byproducts] Rule** , 1998

Disinfection By-Products in Water Chao Chen, Susan Andrews, Yuefeng Xie, 2024-12-28 This book offers a comprehensive review of disinfection by products DBPs exploring various aspects from detection methods and precursors to their potential health risks regulation and future implications This book is also a memorial to the 50th anniversary of the first major DBP report in 1974 by Dr Rook who identified chloroform in chlorinated drinking water initiating the study of DBPs For half a century chemists toxicologists engineers and regulators have been identifying more DBPs understanding their formation

mechanism evaluating their health effects on the public and minimizing and controlling their formation in drinking water. Divided into four parts, the book commences with an introduction to the general knowledge of DBPs, shedding light on the significance of DBPs and their impact on water quality. It also delves into the detection methods employed to identify and quantify DBPs, offering readers invaluable insights into cutting edge techniques and emerging technologies and explores the sources and characteristics of DBP precursors. In Part II, several expert contributors provide an overview of individual DBPs, including halogenated aliphatic, iodinated aromatic and heterocyclic DBPs, discussing their properties and potential implications. The discussion extends to nitrogenous DBPs, the group of nitrosamines and inorganic DBPs as well. Part III provides an authoritative perspective on the relationship between energy consumption, climate change and DBP formation, offering also insights into DBPs in the context of water treatment plants, water reuse plants, swimming pools and everyday life. The book closes with a section devoted to the health effects of DBPs, where particular attention is given to the analysis of the toxicity and health risks associated with DBPs. In this section, readers will find more about the potential adverse effects of DBPs on human health and current research on risk assessment and management strategies. In today's era of water scarcity and increasing demands for safe drinking water, the presence of DBPs has emerged as a critical concern in the field of public health. This book is therefore an invaluable resource for researchers, water treatment professionals, public health officials and policymakers seeking a comprehensive understanding of DBPs.

*Controlling Disinfection By-products and Microbial*

*Contaminants in Drinking Water* Robert M. Clark, Brenda K. Boutin, 2001      **Activated Carbon** Zaid K. Chowdhury, 2013

Many books have been written about granular activated carbon. Some focus on the theory of performance and removal mechanisms, while others focus on design features. This book focuses on solutions. It describes the challenges facing water providers to provide safe water that is acceptable to their customers, utility experiences using activated carbon, activated carbon applications and design and procurement approaches. The appendices include detailed case studies and a life cycle assessment demonstrating favorable sustainability considerations for activated carbon when compared to other treatment technologies. Never before has all of this information been together in one location. The what, why and how of activated carbon are connected in this book and demonstrate why this treatment technology has maintained its status as an integral treatment technology in the quest for pure water over millennia.

Wastewater Microbiology Gabriel Bitton, 2011-06-09

*Wastewater Microbiology* focuses on microbial contaminants found in wastewater, methods of detection for these contaminants and methods of cleansing water of microbial contamination. This classic reference has now been updated to focus more exclusively on issues particular to wastewater, with new information on fecal contamination and new molecular methods. The book features new methods to determine cell viability activity in environmental samples, a new section on bacterial spores as indicators, new information covering disinfection byproducts, UV disinfection and photoreactivation and much more. A PowerPoint of figures from the book is available at [ftp://ftp.wiley.com/public/sci\\_tech\\_med](ftp://ftp.wiley.com/public/sci_tech_med)

wastewater\_microbiology

### **Handbook of Water and Wastewater Treatment Plant Operations, Second Edition**

Frank R. Spellman, 2008-11-18 Hailed on its initial publication as a real world practical handbook the second edition of Handbook of Water and Wastewater Treatment Plant Operations continues to make the same basic point water and wastewater operators must have a basic skill set that is both wide and deep They must be generalists well rounded in the sciences cyber operations math operations mechanics technical concepts and common sense With coverage that spans the breadth and depth of the field the handbook explores the latest principles and technologies and provides information necessary to prepare for licensure exams Expanded from beginning to end this second edition provides a no holds barred look at current management issues and includes the latest security information for protecting public assets It presents in depth coverage of management aspects and security needs and a new chapter covering the basics of blueprint reading The chapter on water and wastewater mathematics has tripled in size and now contains an additional 200 problems and 350 math system operational problems with solutions The manual examines numerous real world operating scenarios such as the intake of raw sewage and the treatment of water via residual management and each scenario includes a comprehensive problem solving practice set The text follows a non traditional paradigm based on real world experience and proven parameters Clearly written and user friendly this revision of a bestseller builds on the remarkable success of the first edition This book is a thorough compilation of water science treatment information process control procedures problem solving techniques safety and health information and administrative and technological trends

#### Water Quality Program Plan

CALFED Bay-Delta Program, 2000

*Strategies and Technologies for Meeting SDWA Requirements* R. Scott

Summers, 1993-01-03

### **Disinfection By-Products in Water Treatment The Chemistry of Their Formation and**

**Control** Roger A. Minear, Gary Amy, 2017-11-22 Disinfection By Products in Water Treatment describes new government regulations related to disinfection by products It explains the formation of microorganism by products during water treatment and the methods employed to control them The book includes several chapters on chlorine by products and discusses techniques for the removal of chloroform from drinking water It also describes gamma radiation techniques for removing microorganic by product precursors from natural waters and the removal of bromate from drinking water

*Frontier Technology for Water Treatment and Pollutant Removal* Puangrat Kajitvichyanukul, Charongpun

Musikavong, Tanapon Phenrat, 2019-11-15 Frontier technology in water treatment and pollutant removal is needed not only for maximizing water reuse but also for the rapid detection of contaminants in the recycled water The UN announced the years 2018 to 2028 as the International Decade for Action Water for Sustainable Development To realize this mission innovative and frontier technologies for water treatment and pollutant removal are important components This book aims to serve as a platform for updating the scientific community with recent progress in this area covering frontier technologies in analytical technique physicochemical treatment chemical treatment and biological treatment In Focus a book series that

showcases the latest accomplishments in water research Each book focuses on a specialist area with papers from top experts in the field It aims to be a vehicle for in depth understanding and inspire further conversations in the sector

**Natural Organic Matter in Water** Mika Sillanpää, 2014-10-07 Approximately 77 percent of the freshwater used in the United States comes from surface water sources and is subject to natural organic matter contamination according to the United States Geological Survey This presents a distinct challenge to water treatment engineers An essential resource to the latest breakthroughs in the characterization treatment and removal of natural organic matter NOM from drinking water *Natural Organic Matter in Waters Characterization and Treatment Methods* focuses on advance filtration and treatment options and processes for reducing disinfection byproducts Based on the author s years of research and field experience this book begins with the characterization of NOM including general parameters isolation and concentration fractionation composition and structural analysis and biological testing This is followed by removal methods such as inorganic coagulants polyelectrolytes and composite coagulants Electrochemical and membranes removal methods such as electrocoagulation electrochemical oxidation microfiltration and ultrafiltration nanofiltration and membrane fouling Covers conventional as well as advanced NOM removal methods Includes characterization methods of NOM Explains removal methods such as removal by coagulation electrochemical advanced oxidation and integrated methods

Natural Organic Matter and Disinfection By-products Characterization and Control in Drinking Water Sylvia E. Barrett, 2000 There are many by products of water disinfection that are still not fully understood and can be potentially harmful In this volume all the current research in this area is discussed along with an examination of the role of NOM natural organic matter and its relationship to DBP disinfection by product formation and control in drinking water Understanding the relationship of NOM to DBP may well lead to new techniques for analyzing and treating water and enable reasonable choices to be made for source water protection treatment plant process optimization and distribution system operation to control DBP s This volume emphasizes the characterization and reactivity of polar natural organic matter It examines analytical methods which better characterize NOM and determines some of the polar and nonvolatile DBP forms It presents innovative new methods such as capillary electrophoresis for haloacetic acids and LC MS for the identification of polar drinking water DBPs

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