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Nitrification is a microbial process by which reduced nitrogen compounds (primarily ammonia) are sequentially oxidized to nitrite and nitrate. Ammonia is present in drinking water through either naturally-occurring processes or through ammonia addition during secondary disinfection to form chloramines.

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Nitrification as part of the water treatment process can occur whenever ammonia is present in or added to the source water, and water is not initially free chlorinated to achieve breakpoint. Nitrification can be either controlled or uncontrolled.

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~~Nitrification in Water and Wastewater Treatment - U.S. EPA ...~~

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As a result of the implementation of the Stage 1 and Stage 2 Disinfectants and Disinfection Byproduct Rules, chloramine use as a secondary disinfectant in the United States is predicted to increase significantly. Along with the addition of chloramine comes the risk of nitrification in the distribution system. Nitrification in drinking water distribution systems is undesirable and may result in ...

~~Nitrification in the Drinking Water Distribution System ...~~

----- Nitrification is performed by chemoautotrophic bacteria, which fix CO₂ as a source of carbon for cell material and obtain energy for the process by oxidizing inorganic substrates. Two groups of the chemoautotrophs are distinguished, each responsible for a specific phase of the nitrification process.

~~A Study of Nitrification and Denitrification - EPA~~

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The nitrification studies were conducted with MLVSS concentrations within the range of 800-6,000 mg/l. A sample of two of the experiments run at the same pH and temperature conditions but with two different mixed-liquor volatile suspended solids is shown in figure 1-7.

~~Nitrification And Denitrification Facilities ... - EPA~~

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Nitrification in drinking water distribution systems is undesirable and may result in water quality degradation and subsequent non-compliance with existing regulations. Therefore, nitrification control is necessary to maintain water quality in drinking water systems when free ammonia is present. The fundamental processes affecting nitrification occurrence in distribution systems are discussed: (1) chloramine chemistry, (2) nitrifier growth kinetics, and (3) monochloramine inactivation ...

~~Nitrification in Chloraminated Drinking Water Distribution ...~~

Epa Nitrification Us Epa Nitrification is a microbial process by which reduced nitrogen compounds (primarily ammonia) are sequentially oxidized to nitrite and nitrate. Ammonia is present in drinking water through either naturally-occurring processes or through ammonia addition during secondary disinfection to form chloramines. Nitrification - US EPA Nitrification as part of the water

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~~TREATMENT - Environmental Protection Agency~~

Nitrification Us Epa Nitrification is a microbial process by which reduced nitrogen compounds (primarily ammonia) are sequentially oxidized to nitrite and nitrate.

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Biological nitrification is the microbe-mediated process of oxidizing ammonia to remove nitrogenous compounds from wastewaters. Domestic

sewage typically contains 20 to 40 mg/L (ppm) of ammonia nitrogen (NH₄-N). Organic matter containing nitrogen, e.g., protein and nucleic acid, also biodegrades to release ammonia.

This manual is constructed to progress from a broad discussion of nitrogen in the environment to the concepts using biological processes to control or remove nitrogen, and finally to the details of designing specific systems.

Contents - List of Tables - List of Figures - PART ONE: NITRIFICATION - Chapter 1 Introduction - Chapter 2 Nitrogenous and Phosphorous Compounds - Chapter 3 Nitrification: The Basics - Chapter 4 Nitrifying Bacteria - Chapter 5 Nitrification and Limiting Factors - Chapter 6 Promoting Nitrification - PART TWO: DENITRIFICATION - Chapter 7 Denitrification: The Basics - Chapter 8 Denitrifying Bacteria - Chapter 9 Denitrification and Limiting Factors - PART THREE: BIOLOGICAL PHOSPHORUS REMOVAL - Chapter 10 Biological Phosphorus Removal: The Basics - Chapter 11 EBPR: Process Control - Abbreviations and Acronyms - Glossary - Bibliography - Biological nutrient removal (BNR), the removal of nitrogen and phosphorus from wastewater, is a complex process. Although the activated sludge process is an efficient technology for the removal of biochemical oxygen demand (BOD) and total suspended solids (TSS), it provides less-than-optimal conditions for the removal of nitrogen and phosphorus, and presents numerous challenges to the operator trying to satisfy the many requirements for several different groups of bacteria. In addition to satisfying the requirements there are numerous, highly variable operational conditions that impact BNR. These conditions include: changes in strength and composition of the wastewater, alkalinity and pH, temperature, and presence of inhibitory and toxic wastes. Even fluctuations in flows, especially from inflow and infiltration, can adversely impact the aerobic, anoxic, and anaerobic conditions needed for successful BNR. Of the three treatment processes, nitrification, denitrification, and enhanced biological removal, nitrification is often the most difficult to achieve. Therefore, a large portion of this book reviews nitrification. Operators of the activated sludge process need to understand the basic biological, chemical, and physical requirements for BNR in order to improve the performance of these treatment processes. An Operator's Guide to Biological Nutrient Removal (BNR) in the Activated Sludge Process is intended to help operators in the monitoring, troubleshooting, and process control of BNR. Numerous tables and figures are included in the book to help the operator understand the biological and chemical reactions that are involved in BNR processes and how the reactions can be monitored for process control. Design of BNR processes is not addressed in this book. Design is addressed in numerous engineering publications. The book serves to help operators achieve permit compliance for nitrogen and phosphorus discharge limits and obtain cost-effective operation. -

First edition published as: Fundamentals and control of nitrification in chloraminated drinking water distribution systems, copyrighted in 2006.

The Safe Drinking Water Act directs the U.S. Environmental Protection Agency (EPA) to establish national drinking-water standards for chemical and biological contaminants in public water supplies. The standards are to be set at concentrations at which no adverse effects on human health occur or are expected to occur from lifetime consumption, allowing a margin of safety; enforceable standards are standards that are feasible to achieve with the use of the best technology available. The standards are to be reviewed periodically to ensure continued protection of public health. Consistent with the requirement for periodic review, EPA asked the National Research Council to evaluate the current drinking-water maximum-contaminant-level goals (MCLGs) and maximum contaminant levels (MCLs) for nitrate and nitrite in public water supplies. The Subcommittee on Nitrate and Nitrite in Drinking Water, convened under National Research Council procedures, reviewed information on the occurrence and toxicity of nitrate and nitrite. The subcommittee evaluated this information in the context of the drinking-water standards for those substances and drew conclusions about the adequacy of the current standards to protect human health.

This manual recommends optimal operational criteria for chloramine application to enhance and protect distribution system water quality. It examines the chemical characteristics of chloramines, documents the use of chloramines with case studies, and provides planning, design, startup, and monitoring strategies for optimizing the use of chloramines.

Since 1985, scientists have been documenting a hypoxic zone in the Gulf of Mexico each year. The hypoxic zone, an area of low dissolved oxygen that cannot support marine life, generally manifests itself in the spring. Since marine species either die or flee the hypoxic zone, the spread of hypoxia reduces the available habitat for marine species, which are important for the ecosystem as well as commercial and recreational fishing in the Gulf. Since 2001, the hypoxic zone has averaged 216,500 km during its peak summer months, an area slightly larger than the state of Connecticut, and ranged from a low of 8,500 km to a high of 22,000 km. To address the hypoxia problem, the Mississippi River/Gulf of Mexico Watershed Nutrient Task Force (or Task Force) was formed to bring together representatives from federal agencies, states, and tribes to consider options for responding to hypoxia. The Task Force asked the White House Office of Science and Technology Policy to conduct a scientific assessment of the causes and consequences of Gulf hypoxia through its Committee on Environment and Natural Resources (CENR).