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Regular article

Effect of thermal hydrolysis sludge supernatant as carbon source for biological denitrification with pilot-scale two-stage anoxic/oxic process and nitrogen balance model establishment



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HIGHLIGHTS

- The optimal G-source recovery conditions for pilot-scale THP were determined.
- Thermal hydrolysis sludge supernatant was used as C-source for N removal.
- A pilot-scale TIIP combining an A/U/A/O process for designification was operated.
- Satisfied desirrification effects were achieved with hydrolysed studge addition.
- N balance model was established for A/O/A/O process and showed satisfied accuracy.

ARTICLE INFO.

Roywenth: Thermol Brydrolysin process. Waster activated shedge Carbon source Destrollancion Witneppn bullance modell

ABSTRACT

To recover carbon source (C-source) from mosts activated aladge (WAS) and enhance the nitrogen recoval performance, a pilon-scale system consisting of two-stage anostic/rotic (A/O) process and low-stageranare thermal hydrolysis process (FHP) was proposed. The C-source recovery parameters for pilot THP were determined by systematically considering the results of orthogonal jur experiment, hydrolysed shadge biodegradability and actual pilot situation. The results showed that aspertunant from WAS treated by pilot-scale THP showed desirable biodegradability (BODs, SCOD 0.62) and C/N (18) at the condition of beating temperature of 80 °C, heating time of 90 min and shadge vater content of 98%. The performances of two-stage A/O process for 35 days indicated that the efficient quality could comply with the preset dechange standard, and hydrolysed shadge supernature could be utilized as C-source for biological denictification. A nitrogen balance model was established for two-stage A/O process, which showed high simulation accuracy and could be applied to optimize the operation parameters to meet TN discharge standard.

1. Introduction

It is well known that the exceeded discharge of nutrients (N and P) to nature water bodies usually causes eutrophication. For many full-scale wastewater treatment plants (WWTPs), the removal efficiency of P could be markedly improved through flocculant addition [1]. However, N removal is still a challenge for many WWTPs due to insufficient C-source in the influent wastewater [2]. Therefore, C-source addition is essential to enhance N removal efficiency [3].

Waste activated slodge (WAS) produced from WWTPs contains large quantities of organics and can be applied as C-source for biological deniurification, which could achieve sludge reduction and recycle simultaneously. Many researchers have studied the WAS pre-treatment methods for C-source receivery, such as alkalise fermentation [1-6], wet oxidation [7], thermal hydrodysis [8-10], fermentation [11], mechanical disintegration [12] and ionizing irradiation [13,14]. Among these methods, low-temperature thermal hydrodysis process (THP) is suitable for foll-scale application and has attracted wide attention in recent years.

Two-stage A/O process has excellent performance for N removal due to twice nitrification and denitrification poscess, and has been widely used in many WWTPs worldwide. However, nitrification and denitrification processes have different requirements of microorganism species, dissolved oxygen (DO), p8t and organics content. Meanwhile,

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https://doc.org/100.0016/j.hep.20018.00.013

Received 12 May 2018; Received in revised form 21 August 2018; Accepted 23 August 2018. Available online 24 August 2018.

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National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on the Applications of Ecological Theory to Environmental Problems

Ecological Effects of Thermal Discharges T. Langford, 1990-11-30 The job of the responsible zoologist should be to assess or attempt to predict the consequences of any effluent or other environmental disturbance as objectively as possible bearing in mind both the needs of conservation and the reasonable demands of man **EPA-600/3** ,1980 Ecological Knowledge and Environmental Problem-Solving National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on the Applications of Ecological Theory to Environmental Problems, 1986-02-01 This volume explores how the scientific tools of ecology can be used more effectively in dealing with a variety of complex environmental problems Part I discusses the usefulness of such ecological knowledge as population dynamics and interactions community ecology life histories and the impact of various materials and energy sources on the environment Part II contains 13 original and instructive case studies pertaining to the biological side of environmental problems which Nature described as carefully chosen and extremely interesting **Pathobiology of Marine and Estuarine Organisms** John A. Couch, 2021-04-14 Pathobiology of Marine and Estuarine Organisms is a comprehensive up to date review of aquatic animal pathobiology covering infectious and non infectious diseases of vertebrates such as marine mammals and fishes in addition to diseases of invertebrates such as crustacea mollusks and lower phyla The book provides critical information on viral fungal bacterial parasitic and neoplastic diseases of fish and invertebrates Written by top notch experts in the field Pathobiology of Marine and Estuarine Organisms emphasizes pollution associated diseases and includes an important review on the effects of pollution on marine mammals The book will be a welcome addition to the libraries of aquatic and marine biologists aquatic toxicologists fisheries biologists aquaculturalists fish and invertebrate pathologists and Environmental Sciences Division Annual Progress Report for Period Ending ... Oak aquatic animal parasitologists Ridge National Laboratory. Environmental Sciences Division, 1978 Ecological Research Series , 1980 The Environmental Research Laboratory--Duluth Bibliography of Research Products in the Fields of Freshwater Ecology and Toxicology, 1967-1990 Environmental Research Laboratory (Duluth, Minn.),1990 **Aquatic Biodiversity** II H. Segers, K. Martens, 2006-01-20 Freshwater Biodiversity is a much underestimated component of global biodiversity both in its diversity and in its potential to act as models for fundamental research in evolutionary biology and ecosystem studies Freshwater organisms also reflect quality of water bodies and can thus be used to monitor changes in ecosystem health The present book comprises a unique collection of primary research papers spanning a wide range of topics in aquatic biodiversity studies and including a first global assessment of specific diversity of freshwater animals The book also presents a section on the interaction between scientists and science policy managers A target opinion paper lists priorities in aquatic biodiversity research for the next decade and several reactions from distinguished scientists discuss the relevance of these items from different points of view fundamental ecology taxonomy and systematics needs of developing countries present day biodiversity policy at European and global scales It is believed that such a platform for the interaction between science and science policy is an absolute necessity for the efficient use of research budgets in the future Spatial Distribution and Temperature Selection of Fish Near the Thermal Outfall of a Power Plant During Fall, Winter and Spring M. J. Ross, 1980

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