



Reuse of sewage treated effluent in agricultural practices: An alarming presence of *Giardia* spp. cysts

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ABSTRACT

It was evaluated the removal efficiencies of *Giardia* spp. cysts and helminth eggs by a simplified system of wastewater treatment. The treated effluent was destined to be reused in agricultural practices. The system was composed by anaerobic filter and intermittent sand filter. Final effluent concentration was: COD of $52 \pm 24 \text{ mg L}^{-1}$, TSS of $17 \pm 20 \text{ mg L}^{-1}$ and low turbidity values ($3 \pm 4 \text{ NTU}$). The anaerobic filter could remove $99.7 \pm 28.7\%$ of estimated cysts concentration in the raw sewage. The sand filter removed $38.0 \pm 31.6\%$ of *Giardia* spp. cysts from the anaerobic effluent, indicating the total efficiency of the system to 99.0% . The system could also remove 100% of helminth eggs. However, we also identified 93 ± 92 cysts L^{-1} in the final effluent. Thus, there is a necessity to further study these decentralized systems in order to prevent the spread of infectious parasites from in agricultural practices.

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1. Introduction

The lack of wastewater treatment is an environmental and public health problem. Among the pathogenic agents that cause waterborne diseases, protozoa and helminths are more prominent (Quintero-Betancourt et al., 2003; Macpherson, 2005). These parasites have great resistance to adverse environmental conditions and the ingestion of small numbers of cysts and eggs is enough to cause infection. These characteristics enable them to be responsible for most of the parasitic diseases that affect humans and animals worldwide, especially in rural areas (Kierszenbaum, 1994; Avall et al., 2000).

Giardia duodenalis is the most isolated parasite in the human gastrointestinal system. Approximately 20% of world population is parasitized by this protozoan (Nasser et al., 2012). The amount of people parasitized by helminths is also high. It is estimated that 1.2 billion people worldwide are infected by *Ascaris lumbricoides*, 800 million by *Ancylostoma duodenale* and *Necator americanus*, and 700 million by *Trichuris trichiura* (Sengupta et al., 2011).

A significantly higher morbidity and mortality are observed in developing countries, particularly among children, where many communities still lack access to improved sanitation facilities

(Harhay et al., 2010; David et al., 2015). Acquisition of giardiasis occurs through a faecal-oral route, which can be person-to-person, foodborne, or through contaminated water (drinking water or during recreational activities), with the last being the most significant means of transmission of this infection (Ali and HBI, 2000; Hansen et al., 2012; Santos et al., 2013).

The prevalence of diseases caused by these parasites is even greater in developing countries and in rural areas, where there are substandard conditions of basic sanitation services. Thus, proper treatment of wastewater is part of the solution to this problem. However, the population of these countries has little technical knowledge and low financial resources (Paraskevov et al., 2002), which hinders the installation of sophisticated and expensive wastewater treatment systems.

Due to limited availability of resources in these regions, the technologies to be employed should be appropriate to the economy of these countries. They should be inexpensive and adaptable to structural and economic conditions of small towns and economically disadvantaged areas.

In response to this sanitary condition, the Brazilian government launched the Basic Sanitation Research Program (PROSAB). One of its primary objectives was the development of research for rural areas sanitation. Anaerobic filters filled with bamboo rings (Camargo and Nowe, 2000), coconut shells of *Cocos nucifera* (De Oliveira-Cruz et al., 2013; Tonon et al., 2015) or ceramic bricks (Chernicharo, 2006) were among the researched reactors. Their

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Treatment and Use of Sewage Effluent for Irrigation M. B. Pescod, A. Arar, 2013-10-22 Treatment and Use of Sewage Effluent for Irrigation contains the Proceedings of the FAO Regional Seminar on the treatment and use of sewage effluent for irrigation held in Nicosia Cyprus on October 1985 The book reviews available information and experience on the treatment and reuse of sewage effluent for increased agricultural production Papers are presented by international experts on health and agricultural guidelines for effluent quality and on the short term and long term effects of effluent reuse on public health soil fertility and crop productivity Appropriate sewage treatment systems are considered and sewage sludge treatment and agricultural utilization are discussed Case studies of sewage effluent treatment and reuse in irrigation in the Near East Region and elsewhere are presented as well Agriculturists horticulturists and civil engineers will find the compendium interesting Proceedings of the Water Reuse Symposium, March 25-30, 1979, Washington, D.C. ,1979 **EPA-600/8**,1980-08 Selected Water Resources Abstracts ,1991 **Wastewater Irrigation, 1983-March 1988** Karl Schneider,1988 Guidelines for Water Reuse ,2004 **Industrial Reuse and Recycle of Wastewaters** John E. Matthews,1980 **Process Design Manual for Land Treatment of Municipal Wastewater** ,1977 **Wastewater Irrigation, 1979-86** Karl Schneider,1986 **EPA-600/2** ,1980 **Reuse of Sewage Effluent** ,1985 Manual, Guidelines for Water Reuse United States. Environmental Protection Agency,1992 **Decentralized Water Reclamation Engineering** Robert L. Siegrist,2016-10-26 This book presents technical information and materials concerning the engineering of decentralized infrastructure to achieve effective wastewater treatment while also minimizing resource consumption and providing a source of reclaimed water nutrients and organic matter The approaches technologies and systems described are targeted for green building and sustainable infrastructure across the United States and similar industrialized nations but they are also applicable to water and sanitation projects in developing regions around the world Today decentralized infrastructure can be used to sustainably serve houses buildings and developments with water use and wastewater flows of 100 to 100 000 gal d or more The book provides in depth engineering coverage of the subject in a narrative and slide format specifically designed for classroom lectures or facilitated self study Key topics are covered including engineering to satisfy project goals and requirements including sustainability contemporary water use and wastewater generation and methods to achieve water use efficiency and source separation alternative methods of wastewater collection and conveyance and treatment and reuse operations including tank based e g septic tanks aerobic treatment units porous media biofilters membrane bioreactors wetland based e g free water surface and vegetated subsurface bed wetlands and land based unit operations e g subsurface soil infiltration shallow drip dispersal Approaches and technologies are also presented that can achieve nutrient reduction and resource recovery in some cases or pathogen destruction to enable a particular discharge or reuse plan The book also describes requirements and methods for effective

management of the process solids sludges and residuals that can be generated by various approaches technologies and systems The book contains over 300 figures and illustrations of technologies and systems and over 150 tables of design and performance data There are also more than 200 questions and problems relevant to the topics covered including example problems that have solutions presented to illustrate engineering concepts and calculations *African Economic*

Development, 1979-January 1988 Mary E. Lassanyi,1988 *Indexes* United States. Environmental Protection Agency,1983

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Natural Wastewater Treatment Systems Ronald W. Crites,E. Joe

Middlebrooks,Robert K. Bastian,2014-03-14 Calling for ecologically and economically sound wastewater treatment systems the authors of Natural Wastewater Treatment Systems explore the use of wetlands sprinkler or deep irrigation groundwater recharge and other natural systems as sustainable methods for the treatment and management of wastewater Based on work by prominent experts in natu

Guidelines for Water Reuse DIANE Publishing Company,1996 Presents guidelines for utilities and regulatory agencies that primarily address water reclamation for nonpotable urban industrial and agricultural reuse Chapters include technical issues in planning water reuse systems types of reuse applications water reuse regulations and guidelines in the U S legal and institutional issues funding alternatives for water reuse systems public information programs and water reuse outside the U S Appendix provides a complete list of state reuse regulations and guidelines Over 80 charts and tables Extensive bibliography *Farmer to Consumer Marketing* Sheldon Cheney,1986

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