Accepted Manuscript

The effects of mediator and granular activated carbon addition on degradation of trace organic contaminants by an enzymatic membrane reactor

Luong N. Nguyen, Faisal I. Hai, William E. Price, Frederic D.L. Leusch, Felicity Roddick, Hao H. Ngo, Wenshan Guo, Saleh F. Magram, Long D. Nghiem

PII: S0960-8524(14)00843-8

DOI: http://dx.doi.org/10.1016/j.biortech.2014.05.125

Reference: BITE 13533

To appear in: Bioresource Technology

Received Date: 8 April 2014 Revised Date: 30 May 2014 Accepted Date: 31 May 2014



Please cite this article as: Nguyen, L.N., Hai, F.I., Price, W.E., Leusch, F.D.L., Roddick, F., Ngo, H.H., Guo, W., Magram, S.F., Nghiem, L.D., The effects of mediator and granular activated carbon addition on degradation of trace organic contaminants by an enzymatic membrane reactor, *Bioresource Technology* (2014), doi: http://dx.doi.org/10.1016/j.biortech.2014.05.125

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

The effects of mediator and granular activated carbon addition on degradation of trace organic contaminants by an enzymatic membrane reactor

Revised Manuscript Submitted to

Bioresource Technology

May, 2014

Luong N. Nguyen ^a, Faisal I. Hai ^{a*}, William E. Price ^b, Frederic D. L. Leusch ^c, Felicity Roddick ^d, Hao H. Ngo ^e, Wenshan Guo ^e, Saleh F. Magram ^f and Long D. Nghiem ^a

^a Strategic Water Infrastructure Lab, School of Civil, Mining and Environmental Engineering, University of Wollongong, Wollongong, NSW 2522, Australia

^b Strategic Water Infrastructure Lab, School of Chemistry, University of Wollongong, Wollongong, NSW 2522, Australia

^c Smart Water Research Centre, Griffith University, QLD 4222, Australia

^d School of Civil, Environmental and Chemical Engineering, RMIT University, Melbourne, Victoria 3001, Australia

^e Centre for Technology in Water and Wastewater, School of Civil and Environmental Engineering, University of Technology Sydney, Sydney, Broadway, NSW 2007, Australia ^f Department of Civil Engineering, King Abdul Aziz University, Jeddah 21589, Saudi Arabia

^{*}Corresponding author: Faisal I. Hai, E-mail: faisal@uow.edu.au, Ph: + 61 2 4221 3054

Download English Version:

https://daneshyari.com/en/article/7076514

Download Persian Version:

https://daneshyari.com/article/7076514

<u>Daneshyari.com</u>