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EEET-01318-2023-01

Increasing Water Quality and Scalability of Peatland Water with Double Flow Ultrafiltration in South Borneo

SENT TO EDITORS

Submitted
2023-09-01

Increasing Water Quality and Scalability of Peatland Water with Double Flow Ultrafiltration in South Borneo

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TITLE AND TYPE

1

Title (in English)

Increasing Water Quality and Scalability of Peatland Water with Double Flow Ultrafiltration in South Borneo

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Type

Original paper

ABSTRACT

2

Peatlands have a crucial role in the global regulation of climate, the sequestration of carbon, and the conservation of biodiversity. Despite their ecological importance, human activities and climate change have resulted in various environmental challenges for peatlands. One of the most pressing concerns is the deterioration in the quality of water, which adversely affects the health and well-being of local communities reliant on it as a source of fresh water. Additionally, the escalating demand for clean water necessitates substantial efforts in processing peatland water resources. The degradation of quality has the potential to cause adverse ecological and human health impacts.

The technology of Ultrafiltration has come forth as a propitious method for water treatment, exhibiting great potential in the purification of peatland water while simultaneously preserving the ecological equilibrium of this habitat. The objective of this study is to evaluate the efficacy of a combined treatment process consisting of filtration, absorption, microfiltration, and double flow ultrafiltration, and to compare it with the single flow technique for treating water from peatlands. The implementation of these methods was executed in the region of South Borneo, with stages of processing water, that being filtration of raw water, semi-finished raw water filtration, ultrafiltration, and finally, the irradiation of the ready-to-consume water with ultraviolet rays.

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DECISION**CONTENT OF THE LETTER**

September 22, 2023
EEET-01318-2023-02

Increasing Water Quality and Scalability of Peatland Water with Double Flow Ultrafiltration in South Borneo

Dear Totok Wianto,

I am pleased to inform you that your manuscript, entitled: Increasing Water Quality and Scalability of Peatland Water with Double Flow Ultrafiltration in South Borneo, might be accepted for publication in our journal, pending some minor changes suggested by reviewers (see below).

Please revise your paper strictly according to the attached Reviewers comments. Your manuscript won't be taken into consideration without the revisions made according to the recommendations.

Authors of our journal are requested to prepare a revised version of their manuscript as soon as possible. This may ensure fast publication if an article is finally accepted.

Thank you for submitting your work to us.

Kindest regards,

Review 1:

1. The abstract still looks long and does not demonstrate the main components of the manuscript. Please briefly present in the abstract the purpose of the study, methods, originality (novelty) and results (conclusions)
2. In the introduction, the source (... O. et al. 2012) requires correction; (Sukmara, Wahab, and Ariyaningsih 2022), (Page, Rieley, and Wüst 2006) - not written correctly. You should check the format of all citations and the list of references; it must be prepared in accordance with the instructions for authors (see here <http://www.ecoet.com/Instructions-for-Authors,70.html>)
3. For Figures 4 and 5, symbols should be added
4. It is recommended to supplement the discussion section with a comparison with the results of similar studies by other authors. If similar studies have been carried out previously, then it is advisable to discuss this in comparison with our own. If there are no such studies, then it is advisable to focus on the relevance (novelty) of the current study