

## COVER LETTER

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18 November 2024

Dear,

I/We wish to submit an original research article entitled “[**Water Quality Restoration Effort using Numerical Modelling in the Cikakembang River**]” for consideration by SINERGI.

We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere. We promise not to withdraw this article after it has been processed by the Editorial Team. If there is a withdrawal, we are willing to pay a penalty of USD 150 (IDR 2000K) to the SINERGI Editorial Team.

In this paper, I/we report on / show that:

Field	:	Water Quality Modelling
Topic	:	Heavy Metals Numerical Simulation and Limitation of Permissible Wastewater Flowrate Levels
Brief Background	:	The Cikakembang River is one of the tributaries of the Citarum River, which receives domestic and textile industries wastewater. Based on laboratory assessment, the Cikakembang River water quality does not fit to Class II river water quality standard. This study aims to model the heavy metal parameter and limit the incoming wastewater, so that it will improve the water quality of the Cikakembang river.
Research Problem	:	This study focuses on four primary water quality parameters: Dissolved Oxygen (DO), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), and Copper. These four parameters were simulated numerically to obtain the maximum pollutant carrying capacity into the Cikakembang River.
Overview of Method	:	Laboratory Test and Numerical Simulation.
Significant finding	:	Based on the results, the carrying capacity for BOD, COD and Copper parameters in the Cikakembang River are limited to 199.43 kg/day, 1103.80 kg/day and 4.06 kg/day, respectively.

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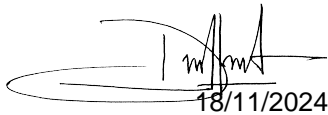
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We have no conflicts of interest to disclose.

Thank you for your consideration of this manuscript.

Sincerely,  
*Doddi Yudianto*



18/11/2024

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## AUTHORSHIP STATEMENT

I/We wish to submit an original research article entitled “[***Water Quality Restoration Effort using Numerical Modelling in the Cikakembang River***]” for consideration by SINERGI.

All persons who meet authorship criteria are listed as authors, and all authors certify that they have participated sufficiently in work to take public responsibility for the content, including participation in the concept, design, analysis, writing, or revision of the manuscript.

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Please send 3 (three) prospective reviewers (who are not yet registered in SINERGI) to speed up the review process who are competent for the topic and have a good reputation in the field. Please ensure that **they are willing to review** this paper.

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