

V. CONCLUSIONS

A. Conclusions

1. The biofilter-based WWTP at Dawuhan Kulon Village showed low efficiency in improving wastewater quality, achieving an intermediate reduction in MPN (30.2%).
2. Statistical tests confirmed no significant differences ($p > 0.05$) between inlet and outlet for BOD₅, TDS, and MPN, indicating limited treatment efficiency and the need for system upgrades with advanced technologies.

B. Suggestion

The biofilter-based WWTP should be upgraded with advanced technologies, such as membrane bioreactors, and routine monitoring should be conducted to maintain water quality and ensure the effectiveness of wastewater treatment sustainably.

