

CONCLUSION

To optimize the process of reverse osmosis membrane treatment, is applied the response surface method (RSM). Factors that affect the removal of parameters are POME concentration, solution pH and Trans membrane pressure. Overall, the study showed the optimum removal of BOD, COD and colour. Based on the response surface and contour plots can be seen that the optimum of parameter removal will be achieved when the concentration of POME was 10.05%, pH of POME was 3.0 and the TMP was 0:50 kPa. The final values of COD, BOD and Colour were 29.974 mg/L, 24.33 mg/L and 11.76 PtCo, respectively.

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