

ABSTRAK

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Program Studi Sanitasi Program Diploma III Kampus Magetan
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**EFISIENSI KINERJA INSTALASI PENGOLAHAN AIR LIMBAH LIK
MAGETAN DITINJAU DARI PARAMETER TSS DAN AMONIAK
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vii + 48 Halaman + 16 Tabel + 6 Lampiran

Tujuan umum dari penelitian ini yaitu Mengevaluasi efisiensi kinerja dari setiap unit di Instalasi Pengolahan Air Limbah LIK Magetan dalam menurunkan TSS dan Ammoniak. Sedangkan tujuan khususnya Mengukur tingkat Efisiensi kinerja proses Sedimentasi I ditinjau dari parameter TSS dan Ammoniak pada IPAL LIK Magetan. Mengukur tingkat Efisiensi kinerja proses kimia ditinjau dari parameter TSS dan Ammoniak pada IPAL LIK Magetan. Mengukur tingkat Efisiensi kinerja proses Aerasi ditinjau dari parameter TSS dan Ammoniak pada IPAL LIK Magetan, Mengukur tingkat Efisiensi kinerja proses Tertiary Treatment ditinjau dari parameter TSS dan Ammoniak pada IPAL LIK Magetan.

Penelitian ini termasuk dalam penelitian deskriptif, yaitu menggambarkan hasil efisiensi parameter TSS dan Amoniak yang sampel nya diambil melalui lima titik yaitu inlet, sedimentasi I, Proses kimia, aerasi, tertiary treatment di LIK Magetan Data yang diperoleh dimasukkan dalam tabel kemudian dianalisis dan diinterpretasikan secara deskriptif.

Dari hasil penelitian ini dapat disimpulkan bahwa tingkat efisiensi kinerja proses sedimentasi I hasil penurunan 81 presentase 43,5% , proses kimia penurunan 57,3 presentase 12,68%, aerasi penurunan 71 presentase 36,08%, tertiary treatment penurunan 46,4 presentase 23,64% ditinjau dari parameter TSS dan Amoniak pada IPAL LIK Magetan ketiga hasil pengambilan sampel diperoleh hasil penurunan dan presentase yang masih belum efisien. Untuk itu disarankan pada proses pengolahan limbah IPAL LIK Magetan lebih ditingkatkan lagi dan dapat mengevaluasi hasil kinerja dalam menentukan titik permasalahan yang ada dalam unit IPAL LIK Magetan.

Kata Kunci : Limbah Kulit TSS dan Amoniak, Efisiensi
Referensi : 1999 – 2018

ABSTRACT

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PERFORMANCE EFFICIENCY OF INSTALLATION OF LIK MAGETAN
WASTE TREATMENT PROCESSED FROM TSS AND AMMONIAC
PARAMETERS IN 2020.

vii + 48 Pages + 16 Tables + 6 Appendices

The general objective of this research is to evaluate the performance efficiency of each unit in the LIK Magetan Wastewater Treatment Installation in reducing TSS and Ammonia. Whereas the specific objective is to measure the efficiency level of Sedimentation I process performance in terms of TSS and Ammoniac parameters in the Magetan LIK WWTP. on the Magetan LIK WWTP, Measuring the level of efficiency of the Tertiary Treatment process performance in terms of TSS and Ammonia parameters in the Magetan LIK WWTP.

This study was included in a descriptive study, which described the efficiency results of TSS and Ammonia parameters whose samples were taken through five points namely inlet, sedimentation I, chemical processes, aeration, tertiary treatment in LIK Magetan. The data obtained were entered in a table then analyzed and interpreted descriptively. .

From the results of this study it can be concluded that the efficiency level of the sedimentation process performance I results in a decrease of 81 percent by 43.5%, chemical processes decreased by 57.3 percent by 12.68%, aeration decreased by 71 percent by 36.08%, tertiary treatment decreased by 46.4 by percentage 23.64% in terms of TSS and Ammonia parameters in the IPAL LIK Magetan. The results of the sampling obtained a decrease and the percentage is still inefficient. For that it is recommended in the process of processing the waste treatment plant Magetan LIK IPAL more enhanced and can evaluate the performance results in determining the point of problem in the IPAL LIK Magetan unit.

Keywords: TSS and Ammonia Leather Waste, Efficiency

References: 1999 - 2018