

Septiana Putri Utami

Gambaran Kualitas Air Limbah Cucian Pisang di PT Great Giant Pineapple PG4
Kabupaten Lampung Timur Tahun 2022

Xvi + 91 halaman, 4 tabel, 17 gambar, dan 5 Lampiran

RINGKASAN

PT *Great Giant Pineapple* PG4 merupakan perusahaan berbasis pertanian dengan hasil produksi buah segar seperti nanas madu, pisang *cavendish*, dan jambu kristal. Sebagai penghasil buah segar, PT *Great Giant Pineapple* PG4 memiliki perkebunan seluas 3.757,2 hektar di Lampung Timur. Pengolahan buah segar pasca panen meliputi proses pencucian sampai pengemasan produk. Proses pencucian menghasilkan limbah cair yang akan menyebabkan pencemaran lingkungan. Tujuan penelitian untuk mengidentifikasi proses pengolahan limbah cair cucian pisang sebelum dialirkan ke lebung serta dapat membandingkan kualitas air limbah cucian pisang dengan baku mutu Peraturan Menteri Lingkungan Hidup Republik Indonesia Nomor 5 Tahun 2014.

Penelitian ini bersifat deskriptif untuk mengetahui gambaran kualitas air limbah cucian pisang di PT *Great Giant Pineapple* PG4 Kabupaten Lampung Timur.

Berdasarkan hasil penelitian yang didapat dari observasi proses pengolahan air limbah cucian pisang PT *Great Giant Pineapple* PG4 dengan metode fisika yang terdiri dari proses penyaringan (ijuk, pasir halus, kerikil, arang, dan sabut kelapa) di *Wash Water Treatment*. Nilai parameter pada limbah cucian pisang bulan Februari-April 2022 mendapat hasil dengan rata-rata nilai COD 9,33 mg/L, BOD 5 mg/L, TSS 16 mg/L, pH 7,34. Jika dibandingkan dengan Baku Mutu Peraturan Menteri Lingkungan Hidup Republik Indonesia Nomor 5 Tahun 2014, nilai parameter COD, BOD, TSS, pH tersebut sudah memenuhi standar baku mutu dan jika dialirkan ke badan air aman bagi lingkungan.

Kata Kunci : Gambaran Kualitas Air Limbah Cucian Pisang
Daftar Bacaan : 23 (2007-2021)

Septiana Putri Utami

The Overview of Banana Washing Wastewater Quality at PT Great Giant Pineapple PG4 East Lampung Regency in 2022

Xvi + 91 pages, 4 tables, 17 picture, and 5 Attachments

ABSTRACT

PT *Great Giant Pineapple* PG4 is an agriculture-based company that produces fresh fruit such as honey pineapple, *Cavendish* banana, and crystal guava. As a producer of fresh fruit, PT *Great Giant Pineapple* PG4 has a 3.757,2 hectare plantation in East Lampung. Post-harvest processing of fresh fruit includes the washing process to product packaging. The washing process produces liquid waste that will cause environmental pollution. The purpose of the study was to identify the process of processing banana washing liquid waste before it was channeled into the well and to compare the quality of banana washing wastewater with the quality standards of the Regulation of the Minister of the Environment of the Republic of Indonesia Number 5 of 2014.

This research is descriptive to describe the quality of banana washing wastewater at PT *Great Giant Pineapple* PG4 East Lampung Regency.

Based on the research results obtained from the observation of the banana washing wastewater treatment process of PT *Great Giant Pineapple* PG4 with a physical method consisting of a filtering process (fijuk, fine sand, gravel, charcoal, and coconut husk) in *Wash Water Treatment*. Parameter values in banana washing wastewater in February-April 2022 got results with an average value of COD 9,33 mg/L, BOD 5 mg/L, TSS 16 mg/L, pH 7.34. When compared with the Quality Standards of the Regulation of the Minister of the Environment of the Republic of Indonesia Number 5 of 2014, the parameter values of COD, BOD, TSS, pH already meet the quality standards and if flowed into water bodies it is safe for the environment.

Keywords : Banana Wash Wastewater Quality Description

Reading list : 23 (2007-2021)