

INTISARI

PENGUKURAN KONSENTRASI UNSUR Fe PADA AIR DARI SISTEM PENYARINGAN AIR DI KAMPUS III UNIVERSITAS SANATA DHARMA DENGAN METODE SPEKTROFOTOMETER SERAPAN ATOM (SSA)

Telah dilakukan penelitian pengukuran konsentrasi unsur Fe dalam air sampel yang berasal dari sistem penyaringan air di kampus III Universitas Sanata Dharma. Pengukuran dilakukan dengan metode Spektrofotometer Serapan Atom (SSA).

Hasil penelitian berdasarkan pengukuran selama 23 minggu, menunjukkan bahwa konsentrasi rata-rata unsur Fe pada sampel 1 (setelah melewati saringan pasir sebelah selatan), sampel 2 (setelah melewati saringan pasir sebelah utara), sampel 3 (instalasi kamar mandi yang berada di hall lantai dasar), sampel 4 (instalasi kamar mandi yang berada di gedung lantai 4 sebelah laboratorium komputer teknik), dan sampel 5 (instalasi kamar mandi yang berada di gedung lantai dasar sebelah laboratorium bahasa) adalah (0.3 ± 0.2) mg/l, (0.5 ± 0.4) mg/l, (0.3 ± 0.2) mg/l, (0.4 ± 0.2) mg/l, dan (0.3 ± 0.1) mg/l. Dari penelitian tersebut, diketahui bahwa terdapat kecenderungan pengurangan konsentrasi unsur Fe pada air sampel setelah melewati alat penyaringan.

ABSTRACT**THE MEASUREMENT OF Fe CONCENTRATION IN THE WATER FROM
THE WATER TREATMENT SYSTEM AT CAMPUS III SANATA DHARMA
UNIVERSITY USING ATOMIC ABSORPTION SPECTROPHOTOMETER
(AAS)**

The research has been conducted to measure the concentration of Fe in the sample of water from the filter system at campus III Sanata Dharma University. The measurement was carried out using Atomic Absorption Spectrophotometer (AAS).

The measurement during 23 weeks showed that the average concentration of Fe in sample 1 (after passing the sand filter in the South), sample 2 (the sand filter in the North), sample 3 (the bathrooms in the basement), sample 4 (the bathrooms in the computer laboratory on the 4th floor), and sample 5 (the bathrooms near the language laboratory in the basement) is respectively (0.3 ± 0.2) mg/l, (0.5 ± 0.4) mg/l, (0.3 ± 0.2) mg/l, (0.4 ± 0.2) mg/l, dan (0.3 ± 0.1) mg/l. The figures showed that the concentration tended to decrease, after passing the water treatment systems.