

ABSTRAK

Mesir La Samani, 2022. Uji Kualitas Air pada Air PDAM Desa Nggele Pulau Taliabu. Pembimbing Muhammad Amin dan Deasy Liestianty.

Penelitian ini dilakukan untuk mengetahui kualitas air PDAM Desa Nggele Pulau Taliabu pada Parameter Logam Besi (Fe) dan Ion Anorganik (Cl^- , NO_3^- , SO_4^{2-}). Jenis Penelitian ini adalah penelitian kuantitatif dan dilanjutkan uji laboratorium. Pengambilan sampel air dilakukan pada bulan April 2021 di Desa Nggele, Kecamatan Taliabu Barat Laut, Kabupaten Pulau Taliabu dan uji laboratorium dilaksanakan di UPT. Laboratorium Dasar dan Terpadu, Universitas Khairun. Instrument yang digunakan untuk pengujian logam besi adalah spektrofotometri UV-Vis dan Kromatografi Ion untuk pengujian ion anorganik. Standar baku parameter air yang digunakan dalam penelitian ini adalah Peraturan Menteri Kesehatan RI nomor 492 tahun 2010 tentang Kualitas Air Minum dan Peraturan Menteri Kesehatan RI nomor 32 tahun 2017 tentang baku mutu air untuk keperluan Higieni Sanitasi. Hasil penelitian menunjukkan bahwa sesuai dengan Permenkes RI nomor 492 tahun 2010 tentang kualitas air minum cemaran logam besi melebihi ambang batas yang ditetapkan. Sesuai permenkes nomor 32 tahun 2017 tentang kualitas air untuk keperluan higieni sanitasi parameter ion anorganik masih dibawah ambang batas maksimum.

Kata Kunci : Status Mutu Air, Kualitas Air PDAM, Logam Besi (Fe), Anion Anorganik (Cl^- , NO_3^- , SO_4^{2-}).

ABSTRACT

Mesir La Samani, 2022. Water Quality Test On Water at PDAM Nggele Village, Taliabu Island. Supervisor Muhammad Amin and Deasy Liestianty.

This research was conducted to determine the water quality of PDAM Nggele Village, Taliabu Island on the Parameters of Iron Metal (Fe) and Inorganic Ions (Cl⁻, NO₃⁻, SO₄²⁻). The type of this research is quantitative research and continued with laboratory tests. Water sampling was carried out in April 2021 in Nggele Village, Northwest Taliabu District, Taliabu Island Regency and laboratory tests were carried out at the UPT. Basic and Integrated Laboratory, Khairun University. The instruments used for testing ferrous metals are UV-Vis spectrophotometry and Ion Chromatography for inorganic ion testing. The standard water parameters used in this research are the Regulation of the Minister of Health of the Republic of Indonesia number 492 of 2010 concerning the Quality of Drinking Water and the Regulation of the Minister of Health of the Republic of Indonesia number 32 of 2017 concerning water quality standards for the purposes of Sanitary Hygiene. The results showed that according to the Minister of Health of the Republic of Indonesia number 492 of 2010 concerning the quality of drinking water, iron metal contamination exceeded the specified threshold. In accordance with the Minister of Health number 32 of 2017 concerning water quality for hygiene and sanitation purposes, inorganic ion parameters are still below the maximum threshold.

Keywords : Status Of Water Quality, PDAM Water Quality, Ferrous Metal (Fe), Inorganic Anions (Cl⁻, NO₃⁻, SO₄²⁻).