

ABSTRACT

Wulandari, 2021. Uji Kandungan Logam Berat Tembaga (Cu) pada Air, Sedimen dan Ikan di Perairan Waduk Cirata. Guided by. Drs. H. Ahmad Mulyadi, M.Pd., Mimi Halimah, S.Pd., M.Si.

Cirata Reservoir is one of three reservoirs where the Citarum River flows, one of the functions of the Cirata Reservoir is as a place for fish cultivation in the Floating Net Cage (KJA) system which is a source of economy for the community around the reservoir. This study aims to identify and update information regarding heavy metal contamination of copper (Cu) in water, sediment and fish in the waters of the Cirata Reservoir. The research method used is descriptive method with sampling using purposive sampling method, namely water, sediment and fish. The samples were analyzed at the Central Laboratory of Padjadjaran University using the Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) method. The results of the study were water samples at station I = <0.0001 mg/l, station II = <0.0001 mg/l and station III = 0.0001 mg/l. Sediment samples at station I = 16.9344 mg/kg, station II = 19.3614 mg/kg and station III = 11.1571 mg/kg. Fish samples at station I = 0.0001 mg/kg, station II = 0.5970 mg/kg and station III = 1.5581 mg/kg. The concentration of heavy metal copper (Cu) in the water from the three stations is still below the quality standard value. The concentration of heavy metal copper (Cu) in the sediments of stations I and II has exceeded the specified quality standard value, while at station III is still below the quality standard value. The concentration of copper heavy metal (Cu) in fish from the three stations was still below the quality standard value.

Keywords: Heavy Metals, Copper (Cu), Water, Sediment, Fish, Cirata Reservoir