

Vol. 12 (2): 409-418 (2022)

DETERMINATION OF IRRIGATION WATER QUALITY IN RADONIQUI RESERVOIR THROUGH SOME OF THE MOST IMPORTANT PARAMETERS

Naser Bajraktari^{1*}, Dijesa Morina¹, Agron Shala², Ylber Bajraktari^{3*}

^{1*}University of Peja 'Haxhi Zeka', Agroecology and agroenvironment, St. UÇK 30000, Pejë, Kosova;

²Hydrometeorological Institute of Kosova, st. Lidhja e Pejës, 20000, Prishtinë, Kosova;

^{3*}Kolegji AAB, st. Elez Berisha, 20000, Prishtinë, Kosova;

Corresponding author's Naser Bajraktari and Ylber Bajraktari, e-mail: naser.bajraktari@unhz.eu;
ylber.bajraktari@universitetiaab.com;

Received December 2021; Accepted January 2022; Published February 2022;

DOI: <https://doi.org/10.31407/ijeess12.212>

ABSTRACT

In the general aspect, the quality of irrigation water is evaluated from the point of view of its chemical, physical and biological properties, and in this study the quality of irrigation water at the outlet (Dam) of Radoniqi accumulation with organoleptic parameters has been determined. physico-chemical as; pH, turbidity, electrical conductivity, dissolved O₂, KMnO₄, total hardness, NH₄⁺, NO₂, as well as ions of Ca²⁺, Cl⁻, K⁺, Na⁺, Mg²⁺, etc., realized in a period of three months, spring 2021, with focus on a few sampling points around the pirc or dam. In order to know the degree of its quality in the phase not treated as accumulation, the stability in terms of quality for a seasonal period has been researched, as water dedicated for irrigation and supply of the population for households and industry. In order to make the study with contents, the research of heavy metals has been done, such as; Pb, Cu, Ni, Cd, Fe, Zn, Mn, Cr and Li, at all sampling sites. So, the focus or purpose of the research is to reflect the situation as realistically as possible and this was done by determining the bacteria by the membrane filter method by counting the colonies in Petri dishes with VRB-agar, M-Endo Agar Less, CCA.

Keywords: Pirc, irrigation water, physico-chemical analysis, heavy metals, bacteriological analysis, classification.