University of Belgrade
Technical Faculty in Bor

Chamber of Commerce
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XV International Mineral Processing & Recycling Conference

IMPRC
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Proceedings

Editors:
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CURRENT STATE OF THE QUALITY OF THE LUG RIVER IN THE MUNICIPALITY OF MLADENOVAC

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ABSTRACT – This study examined the physico-chemical properties of water samples taken from two locations on the Lug River in the municipality of Mladenovac in March 2023. The tests included determining the levels of nitrates, nitrites, phosphorus, ammonia, BOD5, COD, as well as the content of metals such as Zn, Ni, Cu, Cr, Fe, Cd, Pb, Mn, and Mg. Given that Mladenovac was once an industrial center, and all of its industries are now inactive, and production has ceased, the current contamination of the watercourse is exclusively caused by anthropogenic factors and the neglect of the local population. Since the sampling location is exposed to the aforementioned pollution factors, and the testing was not conducted for an extended period, this study's results show that the water quality exceeds the limits of Class IV.

Keywords: Contamination, Physico-Chemical Properties, Water Quality.

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