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## **ASSESSMENT OF CHEMICAL PARAMETERS IN THE LOWER DANUBE**

**Ionela Cotloguț, Mihaela Timofti, Cătălina Iticescu,  
Lucian P. Georgescu, Maria Cătălina Țopa**

*“Dunarea de Jos” University of Galati, European Center of Excellence for the Environment ,  
Faculty of Sciences and Environment, 111 Domneasca Street, 800201, Galati, Romania*

*Corresponding author: [ionela.cotlogut@ugal.ro](mailto:ionela.cotlogut@ugal.ro)*

**Abstract:** This paper aims at assessing the water quality and the pollution degree on a relevant sector from the Lower Danube using the levels of nutrients, minerals, organic matters and the oxygen conditions as the specific indicators. For this study, water samples were taken from five different stations: Priza Dunarii, the confluence of Danube with the Siret and the Prut, Dunare-Liberatatea, and Cotul Pisicii. In order to determine the pollution degree of the Danube water in Galati, nine chemical parameters were analysed: total nitrogen, nitrates, nitrates, ammonia, total phosphorus, chlorides, sulphate ions, total organic carbon (TOC) and chemical oxygen demand (COD). The results obtained were used to assess and classify the quality of the Lower Danube water into I, II and IV quality classes according to the WFD transposed in Order 161/2006.

**Keywords:** monitoring, Danube, chemical parameters, water quality

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