

## **Contribution to the development of a map model for dam water quality: Centre region of Algeria**

This work is part of protection and monitoring of reservoirs water quality. A thorough and detailed analysis of the results for measuring the reservoirs water quality of Algeria's central region was made for the period from 1984 until 2005. From the analysis of the temporary variability of reservoirs water quality, storage structures that have similar behavior in relation to a set of parameters have been grouped.

Interpretation of the physicochemical analyzes showed that the degradation of water quality is primarily due to agriculture (fertilizers), to urban and industrial wastewater discharges and the low reforestation rate. The obtained results were presented using a database that allowed the drawing up of a quality map by means of Geographic Information System (GIS), thus summarizing the quality standard levels of the Algerian dams.