



The impact of a domestic wastes warehouse from the city of Tg-Jiu on the Jiu river

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The development of the City of Tg - Jiu similar to any urban agglomeration, determined a significant increase in the quantity of wastes which need to be stored. Energetic industry, agriculture and domestic activities are important sources for wastes generation qualitatively, as well as from the point of view of the impact on the environment. The domestic wastes dump of the city of Tg – Jiu is placed outside the city, on the right shore of the Jiu River. The main pollution source for the water is the leachate resulting from the percolation of the wastes dump towards the waters coming from precipitations.

In order to investigate the water quality, there were taken two surface water samples from the river Jiu. Until this moment, the monitoring drillings execution was not completed; this is why the underground water samples could not be taken and analysed as well. The experimental determinations were done according to STAS 1342-92: pH, azotates, total nitrogen, fixed residue, dissolved oxygen, oil products, sulphates, phosphates, chlorides, heavy metals. The water of the River Jiu near the domestic wastes warehouse is in the second class of quality in most of its indicators except for NO_3^- , Cu and PO_4 , which by the determined values, under classes it to the third quality class. Generally, the water from the River Jiu comes with a higher load of certain compounds. It is also noticed a very good oxygenation of the water near the wastes warehouse, corresponding to the first quality class.