



“Gheorghe Asachi” Technical University of Iasi, Romania



WORKS WITH A MINIMUM ENVIRONMENTAL IMPACT IN RIVERBEDS

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Abstract

Various interventions need to be done in riverbeds for achieving certain goals (recreational, economic, flood prevention). However, they should have a low impact on river environments. This paper analyses the effects of a rise in the upstream water levels as an indicator of the impacts magnitude. We found that such an intervention can generate low impacts if it does not result in a rise of the water levels. The study was carried out considering two rivers in the North East of Romania: Siret and Bahlui. The conditions in which various interventions can have low impacts were identified by analyzing two possible situations: a river water intake and a discharge sill with flap gate.

Key words: critical flow conditions, environmental impact criteria, low impact, stream works

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