

Effect of the Downstream Level on the Performance of the PK-Weir and Linear Weir

F. Belaabed

Benjamin Dewals

A. Ouamane

Sébastien Erpicum

Pierre Archambeau

Michel Pirotton

Abstract

The Piano Keys Weir (PK-Weir) represents a new solution which allows increasing weirs capacity (and/or) the capacity storage of the volume water of existing dams. However, the analysis of the geometrical and hydraulic parameters still of research for the improvement of this new type of weir.

Different studies and researches made on the PK-Weir were focused on the improvement of the geometrical shape and the studies of the flow of this type of weir. The present work represents a study on the effect of the submergence on the upstream flow of PK-Weir and linear weir.

This study is based mainly on the experimentation of the two physical models which is supported by an analysis of the results.

Pour citer cet article

F. Belaabed & A. Ouamane, «Effect of the Downstream Level on the Performance of the PK-Weir and Linear Weir», *5th IAHR International Junior Researcher and Engineer Workshop on Hydraulic Structures* [En ligne], URL : <http://popups.ulg.ac.be/IJREWHS2014/index.php?id=59>.