

Upgrading the spillway at Craig-y-Pistyll reservoir using a labyrinth weir

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SYNOPSIS. Llyn Craig-y-Pistyll is an impounding reservoir, retained by an embankment dam, believed to have been constructed in 1877 and originally used in connection with lead mining. It is now owned by Dŵr Cymru and supplies raw water to Bont-goch water treatment works, which serves the Aberystwyth area. It was the subject of some improvement works in the 1930s and 1960s, the latter being described in a technical paper for the 1976 ICOLD Congress (Parkman, 1976). As a result of a Section 10 inspection in 2006, the spillway is being upgraded in 2010. The primary works comprise:

- construction of a labyrinth weir (Figure 1) to accommodate the design flood with a lesser flood surcharge;
- enlargement of the rock cut spillway downstream of the new weir; and
- a vehicle bridge to replace the present ford across the spillway.

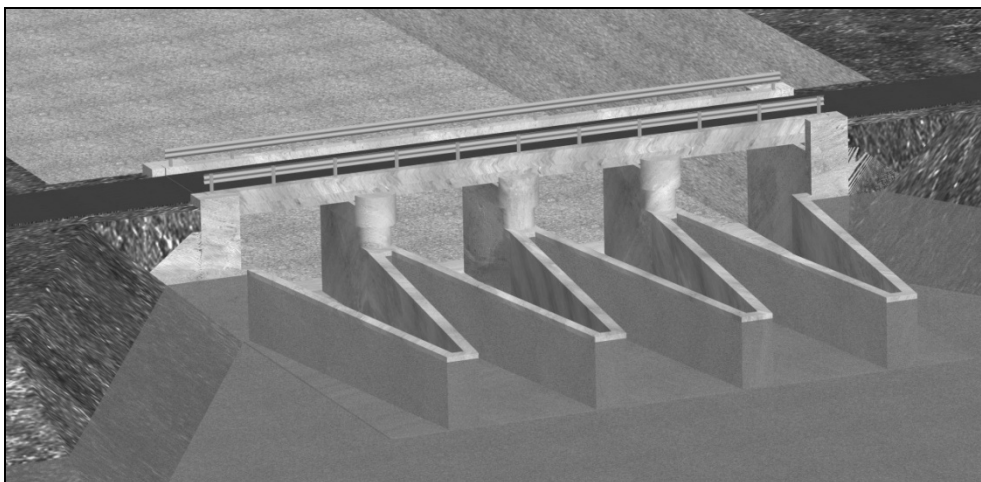


Figure 1. Proposed labyrinth weir and new access bridge