

The Wigan flood detention reservoir

A.J. BROWN, Jacobs, Leatherhead, UK

D. CLOUGH, Axis, Chester, UK

E. GODDARD, Environment Agency, Warrington, UK

J. D. GOSDEN, Jacobs, Croydon, UK

SYNOPSIS. The paper describes the promotion and design of a new flood detention reservoir on the River Douglas, upstream of the town centre in Wigan, north-west England. The reservoir includes two of the largest Hydro-Brakes[®] installed in UK and stabilisation of old workings in two coal seams which outcrop in the reservoir basin. The paper also highlights some of the environmental challenges facing the design team and provides thoughts on lessons learned on mitigating the adverse effects of a major new engineering structure.