

Bengoh RCC Dam, Sarawak

A.C. MORISON, Halcrow Group, Swindon, UK.

Dr J.S. YEOH, Halcrow Group, Swindon, UK

SYNOPSIS. Bengoh Dam is a 63m high, 267m long RCC dam at present under construction about 40km south of Kuching, Sarawak, Malaysia. It is designed to provide an assured water supply for Kuching and the surrounding area up to 2030, by which time the population it serves is expected to grow to over one million. Despite some 4m annual rainfall, the existing river water source is under pressure and in recent years this resource has been stretched close to its limits with local water demand increasing at 8% year on year. Halcrow Group has been providing technical support to local consultant KTA (Sarawak), starting with review of feasibility in 2003 and progressing through to construction, which is due for completion in December 2010. Specialist aspects of this have included dam design, spillway hydraulic model studies and preparation of Emergency Response Plans. The paper covers the study, investigation, and design of the dam, and touches briefly on a few design revisions during construction.