

Planning a new Water Resource Development - Cheddar Reservoir Two

P KELHAM, Arup
R GROSFILS, Arup
M BROWN, Arup
M ATYEO, Bristol Water

SYNOPSIS In its 2009 Water Resources Management Plan, Bristol Water identified the need for an additional raw water storage reservoir at Cheddar to meet their forecast resource deficit. Arup has been working with Bristol Water to identify the best reservoir location, develop the scheme design and prepare a planning application covering the reservoir and its associated infrastructure, environmental, social and recreational facilities. The search for a suitable reservoir site and the requirement to produce a scheme design have been supported by an extensive ground investigation and geotechnical analysis with the aim of minimising the need to import construction materials by winning as much suitable material as possible on site.

This paper describes the development of the scheme, from initial site selection to submission of the planning application in December 2013 and highlights some of the engineering, environmental and stakeholder challenges faced in promoting the reservoir.