

Case Record

Protecting the Belfry at M6 Toll



Date May, 2002
Location Midlands
Client MEL
Main Contractor CAMBBA*

CAMBBA worked with the Belfry Management and the Environment Agency to ensure the quality of the natural streams and lakes, which are so much a part of the beauty of the course.

The Construction of the UK's first toll road.

Business Benefits

- **Environmental measures in place to ensure water quality and also the quality of the surrounding area**
- **Reduction of negative impacts placed upon the natural environment**
- **Assurance of compliance with environmental legislation**

* CAMBBA - Carillion, Alfred McAlpine, Balfour Beatty and Amec.

The problem was that during peak rainfalls the watercourses around the Belfry carried silt from the farmland that they flow through. The lakes and streams within the course took on the colour of that silt. The construction works through the area had also contributed to the silt loading in the streams and consequently in agreement with the Belfry Management a number of measures were put in place.

Worst-case scenario calculations were made as to the amount of run off from the site. Lagoons were constructed to contain and treat this volume of water. Flocculent treatment plants were set up at the lagoons to cause the fine particles to settle out during flow through a series of spillways and weirs prior to discharge to the watercourse.

Treatment plants were set up in the Belfry grounds next to the inlets to the main lakes and the clarity of the water improved dramatically. Daily monitoring of the watercourses at various locations was undertaken and the results recorded to establish the performance of the measures put in place.

Details of these and other siltation control measures used throughout the M6 Toll are to be the subject of a FASTTRACK project for the DETR, which will be published to the parent companies within the CAMBBA group in spring 2002 and may become industry guidelines.