



# TILGATE DAM



**LAND & WATER**  
Services



# LAND & WATER Services

## Tilgate Dam, Crawley

### Project Information

- **MORRISON CONSTRUCTION**
- **DAM RAISING AND HABITAT CREATION**
- **VALUE £1.5 MILLION**
- **MAY 2010—MAY 2011**

Morrison Construction as Principal Contractor on the Flood Alleviation Scheme, employed Land and Water Services Ltd to carry out the specialist earthworks to raise the level of the existing dam and construct a new spillway. As part of ECI consultation previously provided, Land and Water together with their client, re-evaluated the works to include some distinctive 'value engineering' ideas. The inclusion of a wetland to increase biodiversity and wildlife habitat coupled with a significant reduction on the original schemes carbon footprint helped to define the final proposals. Instead of importing large volumes of material from off-site, the existing lake was drained down to allow for a haul road to be constructed within and along the east side of the lake. Material was then won from a borrow pit

excavated at the south eastern end of the lake where material was won to increase the height of the existing dam. This method negated the need for 6,000 lorry loads of imported material to be hauled to the site through busy suburban areas and past a school entrance. Using careful testing and thorough monitoring, Land and Water increased the height of the dam and constructed a new spillway, using materials, selectively won from the borrow pit with a limited amount of high specification clay (used under the spillway) imported by road. The borrow pit was then transformed into a wetland with the introduction of reedbeds, improving not only the aesthetics of the area but creating a wildlife habitat and increasing biodiversity on the site and within the local community.



Find us on the internet at

[www.land-water.co.uk](http://www.land-water.co.uk)

Contact us on 0844 875 1260

