



LAND & WATER

Innovation. Inspiration. Results.

RIVER WINDRUSH RESTORATION & FISH PASS

Taylor Wimpey Developments called in Land & Water to help with the design section of their section 106 mandatory planning consent at this river location in Witney.

The project initially encompassed the construction of a natural fish pass but also required the construction of a weir and two bridges, including the use of Land & Water's own Bailey Bridge and the introduction of a culvert system to manage the water levels

Project Delivery

Phase One Habitat Migration Works:

- Fencing protection for the local water vole colony
- Land & Water's own Bailey Bridge supported the temporary enabling works
- New culvert system to control the water levels in the main river via an upstream bypass and cofferdam at the fish pass intake and wet areas

Phase Two Weir and Bridge Works

- The fish pass intake structure was formed with a reinforced concrete notch weir placed around driven steel piles, incorporating stop log grooves allowing for fish passage and flow control
- New 200m long channel, riffles, stone weirs, flow deflectors and shallow scrapes were all incorporated into the design and left to redistribute naturally over time
- Riffles and boulder dams were constructed using locally sourced stone
- Planting scheme included some 5,500 native plants
- New fixed crest weir allowed for greater water level control during strong flow periods
- A 12m span pedestrian bridge was installed adjacent to the weir with a 25 ton agricultural access bridge placed over the backwater on a lower meadow to allow access and grazing.

All excavation work took place under Environment Agency consent utilising in-house specialist plant equipment.



Find us on the internet at
www.land-water.co.uk

Contact us on 0844 225 1958

The Land & Water Group are award-winning inland waterway and coastal project specialists based in the UK. Throughout their 37-year history, they have become synonymous with finding creative and effective solutions to complex challenges in the specialist environment where land and water meet. Often working in difficult or unpredictable landscapes, their work is always completed with attention to the local surroundings, people and environment.



Project Particulars

- The project was completed for Taylor Wimpey Developments
- The works were completed July – October 2011
- River restoration and fish pass project
- Land & Water's own Bailey Bridge employed



PROJECT
VALUE:

£450,000