

TMS Maritime is a leading UK specialist in marine civil engineering, ancillary floating plant and diving services

Client: Kier/ Team Van Oord
Project: Exeter Fish Pass

Duration: March-September 2015

Project Value: £1.1m

Requirement:

TMS were engaged by Kier /Team Van Oord, working for the Environment Agency, to construct a new fish pass on Trew's Weir, located on the River Exe in Exeter

The Existing weir is an historic masonry weir spanning the full width of the river. The design involved constructing a new reinforced concrete fish pass adjacent to a sluice control structure.

Solution:

Due to its location (with Trew's Weir to one side and an overflow channel to the other) TMS mobilised a modular barge into the river downstream of the weir. Piling plant and equipment were then tracked onto the barge before it was manoeuvred up-river to the weir.

A sheet piled cofferdam was then installed within the weir structure to enable to in-situ concrete fish pass to be constructed. Reinforced concrete was then poured to line and level in order to construct the main body of the fish pass. Baffles were then laid in the bed of the channel to aid the fish passage. Once all works were finished, the sheet piles were removed and the area fully reinstated.

Another part of the scheme involved lowering the crest height of a 130m long side spill weir, located just upstream of the fish pass. We performed a 3D scan of the weir to accurately determine its profile before manufacturing bespoke precast concrete weir crest with a flattened curve, profiled to precisely mate with the existing weir crest. A diamond wire saw was then used to horizontally separate the existing crest from the main body of the weir. The existing crest sections were then craned out for disposal prior to the new crest blocks being installed



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