

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

**Client: Westcountry Rivers Trust**

**Duration: 2 Weeks**

### Project: Bodmin Parkway Fish Baffle Installation

**Requirement:**

Westcountry Rivers Trust engaged TMS to install new fish baffles to the two side channels of this historic 3 span masonry arch bridge and repair the existing low flow main channel. The site is in a very sensitive location and on a busy main road; access was through fields and through a local busy wood merchant. TMS have significant experience of working in busy and restricted areas whilst being sensitive to the needs of local occupiers.

During the works, due to the risk of flow inundation following release of impounded reservoir water, TMS had to liaise closely with SWW to ensure that operatives were always kept safe.

Biosecurity was a crucial aspect of the works. At the start and end of each working day boots/waders/dry suits were sprayed with an approved disinfectant.

**Weir Repair:**

Sandbags, scaffold boards and visqueen were installed to reduce scour on fresh repairs and to dewater the area as much as possible. The weir was broken down by hand and trimmed to a firm substrate solid base. Stainless steel dowels were installed and the repair mortar mixed in the site compound was then transported by wading through the water with full buckets. The mortar then was placed, shaped and compacted to match the existing weir shape.

**Fish Baffle Installation:**

Once the works were completed on this section the debris was cleared to improve the low flow channel. The works comprised the installation of 200mm x 80mm roll top baffles manufactured by Hahn plastics, mounted on 100mm galvanised unequal angle steel. The baffles were pre-assembled in accordance with the Hahn plastics guidance and TMS detailed design. The galvanised angles were offered into position and shimmed to level prior to being affixed to the uneven man made masonry river bed using galvanised mechanical anchors with underwater resin. Baffles were then mounted onto the vertical leg of the angles using coach screws. Finally, self-levelling high flow grout was poured under the angles and baffles, this provided solid of formation for the baffles and prevented water seepage underneath.

