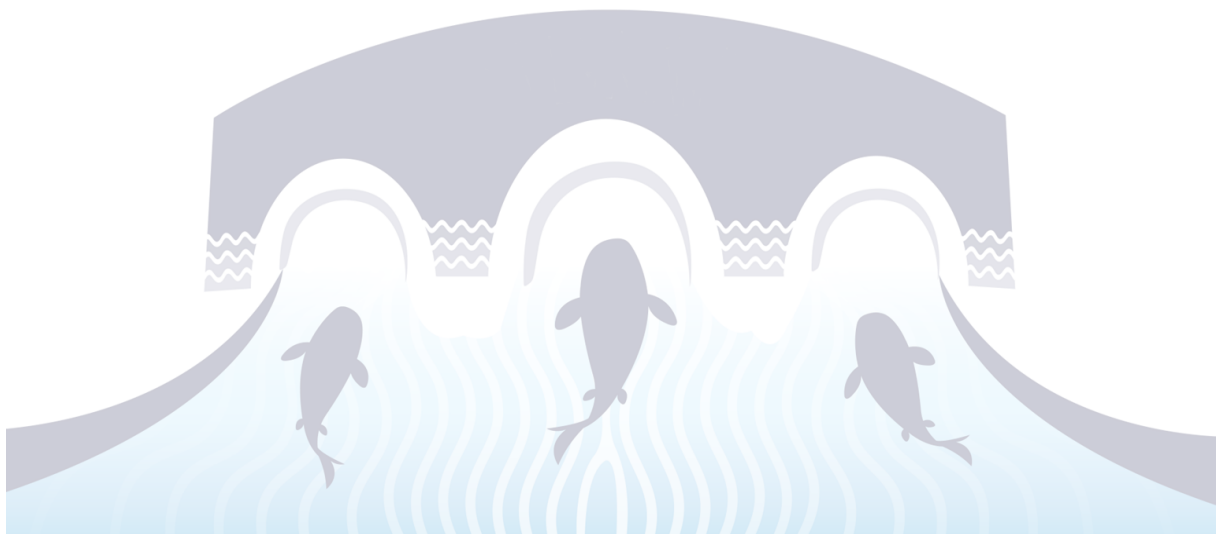




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix C

Lot 3— Galway



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1 Project Description

The full commission of this tender includes 5 Barrier Mitigation Projects that require Topographical and Bathymetric Surveys as detailed in Table 1 below. Further detail on each project within the bundle is provided in Section 1.1 to 1.10.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0842011	Kilcolgan/Dunkellin Old Fish Counter	Galway	29_672_260	54.116556N 9.135589W
2	0845002	Brackloon Weir	Galway	29_172_3	53.285854N 8.583914W
3	0845002	Raford House Weir	Galway	29_172_49	53.282405N 8.593934W
4	0845002	Raford Bridge	Galway	29_172_55	53.281695N 8.596286W
5	0845002	Raford Bridge Weir	Galway	29_172_56	53.281426N 8.597124W

Table 1 Barrier Mitigation Projects

1.1 Kilcolgan/Dunkellin Old Fish Counter

The Kilcolgan/Dunkellin Old Fisher Counter is located on the Kilcolgan River, County Galway. IFI has identified the structure as a high impact barrier for all fish species. A SNIFFER assessment confirmed that the barriers dimensions hinder both upstream and downstream fish migration. The fish counter is now a redundant structure as it was replaced with a new counter upstream, as part of the An Bord Pleanála approved Dunkellin Flood Relief Scheme.

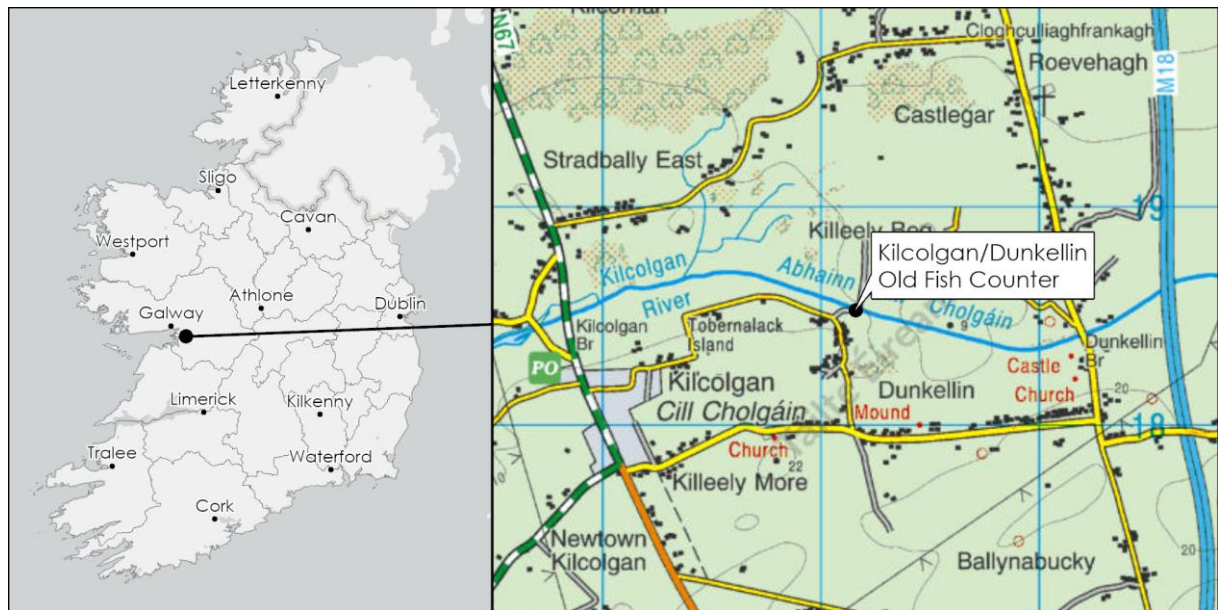


Figure 1 Location Map of Kilcolgan/Dunkellin Old Fish Counter



Plate 1 Kilcolgan/Dunkellin Old Fish Counter - Downstream

1.2 Brackloon Weir

Brackloon Weir is located on the Raftord River at Raftord, Kiltullagh, County Galway. The SNIFFER report describes it as a primarily natural barrier “Small concrete lip on top of a natural bedrock outcrop. Barrier is natural”. The presumption that this barrier is natural is disputed here. Firstly, the structure is labelled as ‘Weir’ on the 25 inch map, whereas there is no such structure or indication of a bedrock outcrop on the First Edition 6 inch maps. Secondly, similar structures appear in the National Inventory of Architectural Heritage (NIAH) described as dressed limestone weirs (e.g. 20906307; 20906313), dating from c. 1800. The structure measures 26m along the crest, and has a drop height of 2.72m.

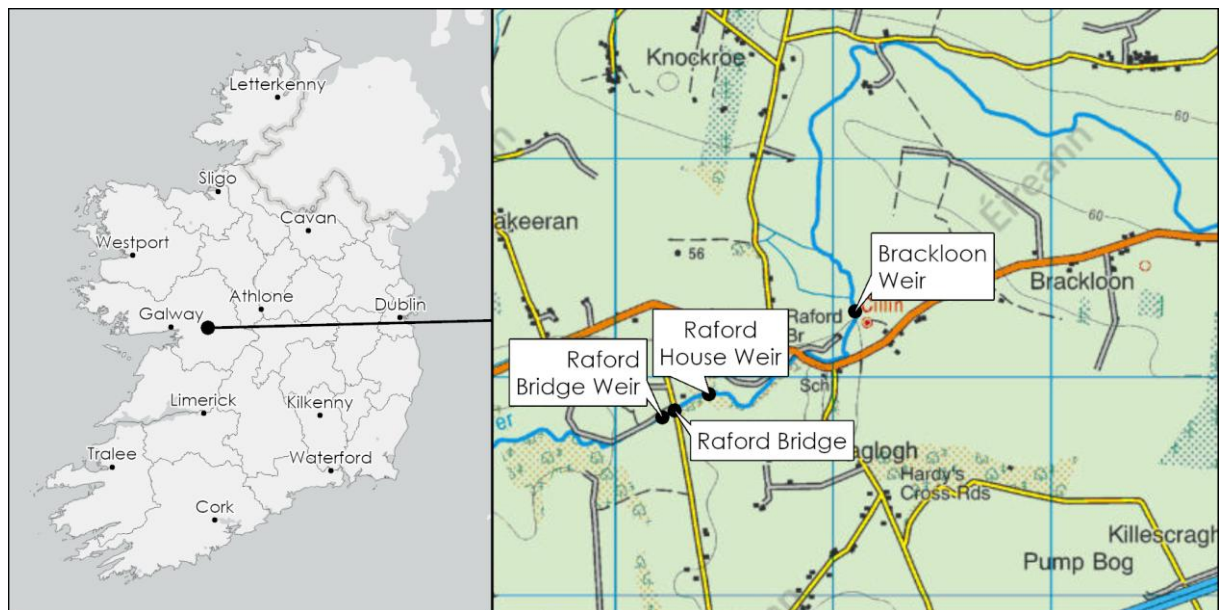


Figure 2 Location Map of Brackloon Weir



Plate 2 Brackloon Weir – Upstream



Plate 3 Brackloon Weir – Downstream

1.3 Rafeord House Weir

Rafeord House Weir is located on the Rafeord River at Rafeord, Kiltullagh, County Galway. Rafeord House Weir is associated with the nearby Rafeord House. It is described in a SNIFFER Barrier assessment survey as an ornamental weir barrier to fish migration in disrepair. It is 16m wide along the crest, occupying the full channel width of 9m. 100% of the channel flow goes through a 2.9m gap, which has a vertical drop of 0.44m. See figure 3 below for a photo of the weir.

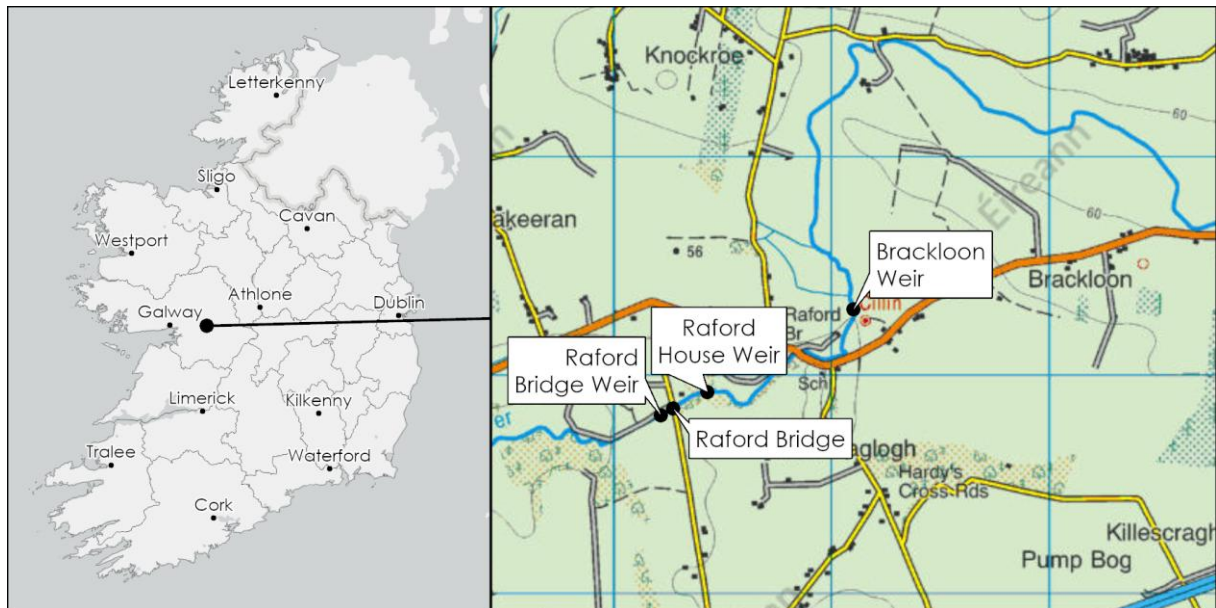


Figure 3 Location Map of Rafeord House Weir



Plate 4 Rafeord House Weir - Upstream



Plate 5 Raford House Weir – Downstream

1.4 Raford Bridge

Raford Bridge is located on the Raford River at Raford, Kiltullagh, County Galway. Raford Bridge is a culvert / bridge apron barrier. The structure is of masonry construction, 11m wide, 4.6m long and 0.1m in depth, presenting a low upstream passage risk to most species including adult salmon and lamprey. See figure 2 below.

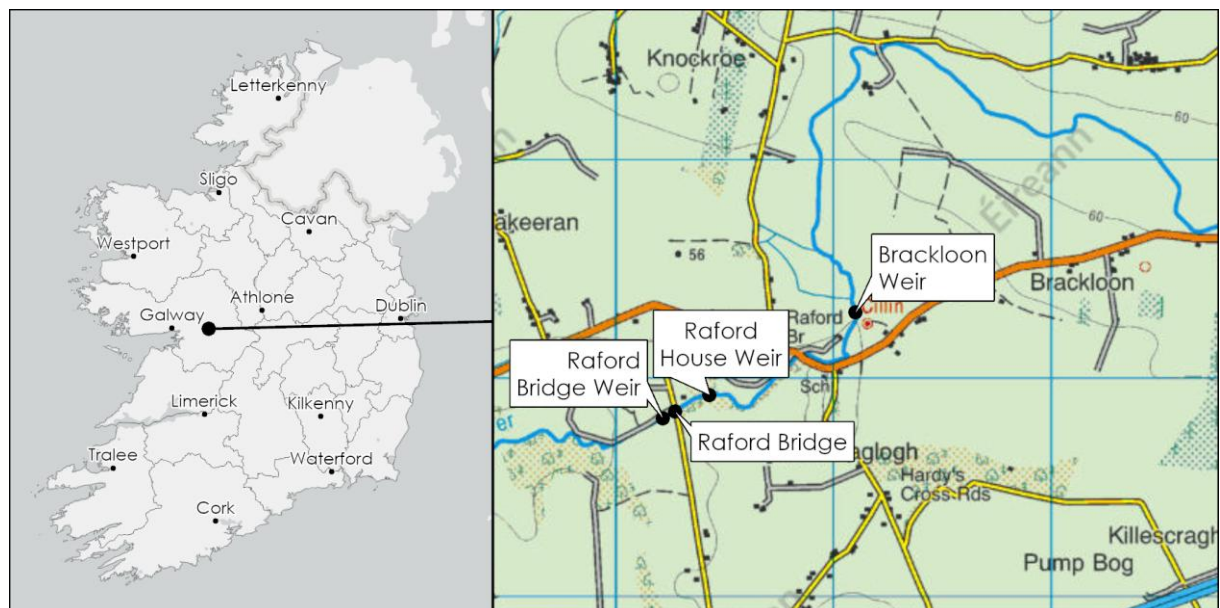


Figure 4 Location Map of Raford Bridge



Plate 6 Raftord Bridge – Downstream

1.5 Raftord Bridge Weir

Raftord Bridge Weir is located on the Raftord River at Raftord, Kiltullagh, County Galway. A SNIFFER Barrier assessment survey indicates this is a 17m wide, vertical concrete structure, with a hydraulic head of 0.27m. See figure 1 below.

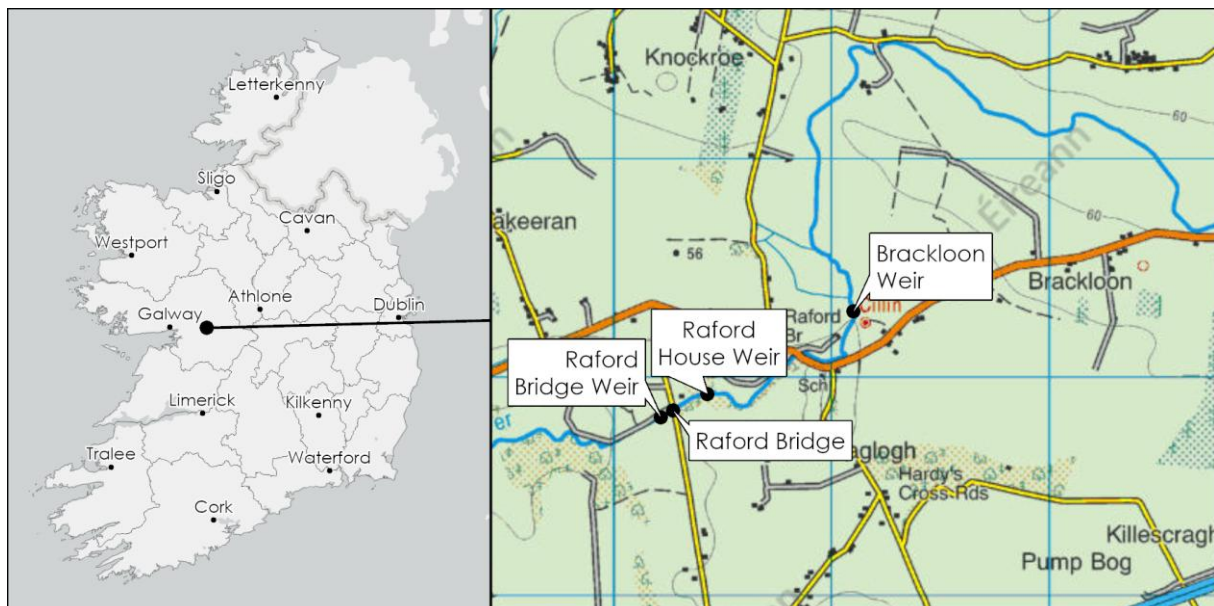


Figure 5 Location Map of Raftord Bridge Weir

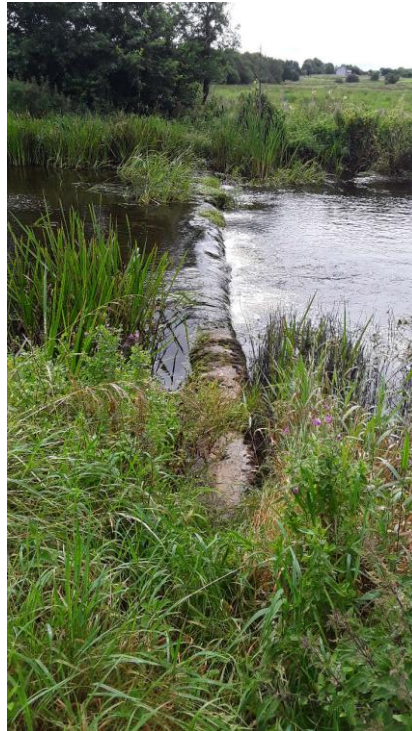


Plate 7 Rafor Bridge Weir - Upstream



Plate 8 Rafor Bridge Weir – Downstream