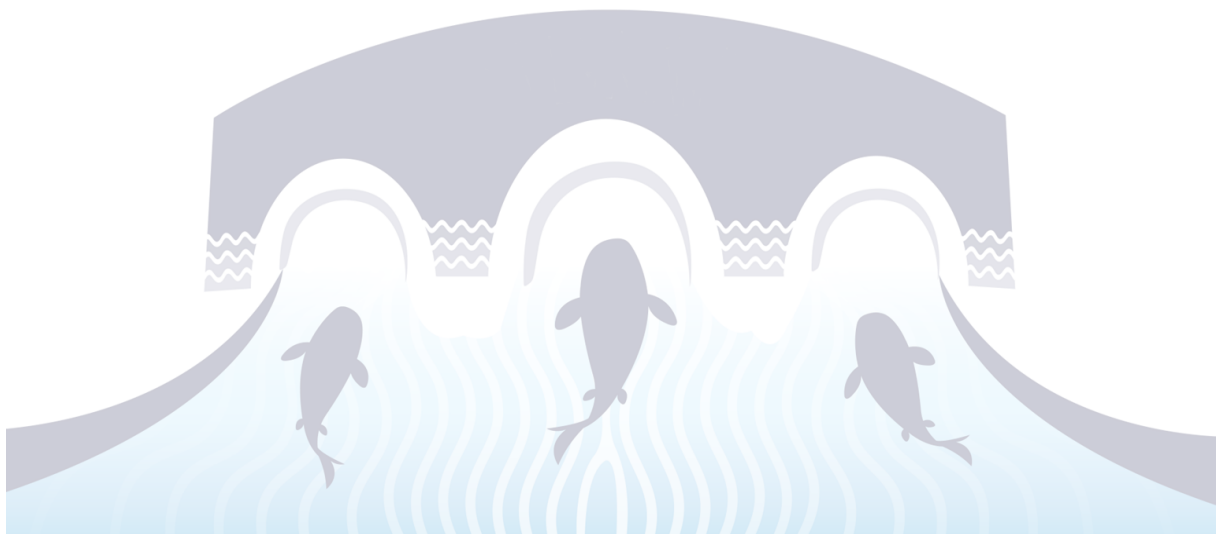




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix D

Lot 4 – Clare/Limerick



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Contents

Topographic and Bathymetric Survey Appendix D	i
Lot 4 - Clare/Limerick.....	i
1 Project Description.....	4
1.1 Ballynabean Bridge Weir	5
1.2 Drehidnalacken Bridge	7
1.3 Roadford Bridge	9
1.4 Black River at Parteen Weir	11
1.5 Kilmallock Sand Trap.....	13
1.6 Castleroberts Weir	15

List of Tables and Figures

Table 1 Barrier Mitigation Projects.....	4
Figure 1 Location Map of Ballynabean Bridge Weir.....	5
Figure 2 Location Map of Drehidnalacken Bridge.....	7
Figure 3 Location Map of Roadford Bridge.....	9
Figure 4 Location Map of Black River at Parteen Weir	11
Figure 5 Location Map of Kilmallock Sand Trap	13
Figure 6 Location Map of Castleroberts Weir.....	20

1 Project Description

The full commission of this tender includes 6 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	0832010	Ballynabean Bridge Weir	Clare	28_842_21	52.804052N 9.463296W
2	0832016	Drehidnalacken Bridge	Clare	28_560_1	53.017839N 9.325741W
3	0832017	Roadford Bridge	Clare	28_821_27	53.018634N 9.371685W
4	0832012	Black River at Parteen Weir	Clare	25_3838_54	52.762405N 8.478887W
5	0833006	Kilmallock Sand Trap	Limerick	24_754_30	52.400161N 8.560961W
6	0834004	Castleroberts Weir	Limerick	24_1497_2	52.547356N 8.769293W

Table 1 Barrier Mitigation Projects

1.1 Ballynabean Bridge Weir

Ballynabean Bridge Weir is located near Quilty, County Clare. The weir is on the downstream side of Ballynabean Bridge. The weir is approximately 9m wide at its crest and has a barrier height of 0.5 meters. During a site visit in February 2026 there was 0.1m water depth flowing at the top of the weir. There is a boundary wall to a residential private house adjacent the left hand side of the weir. This was approximately 1.9m high at the lower end of the weir. The weir is on the Aughnaveema River. Lough Donnell Culverts is 2.4km downstream of the weir. These two pipes are approximately 40m long with 1.9m diameter have been submitted as a separate barrier funding application. This outlet of the river to the seas is in a SAC: 001021 - Carrowmore Point to Spanish Point and Islands, SPA: 004182 - Mid-Clare Coast and pNHA: 001021 - Carrowmore Point To Spanish Point And Islands.

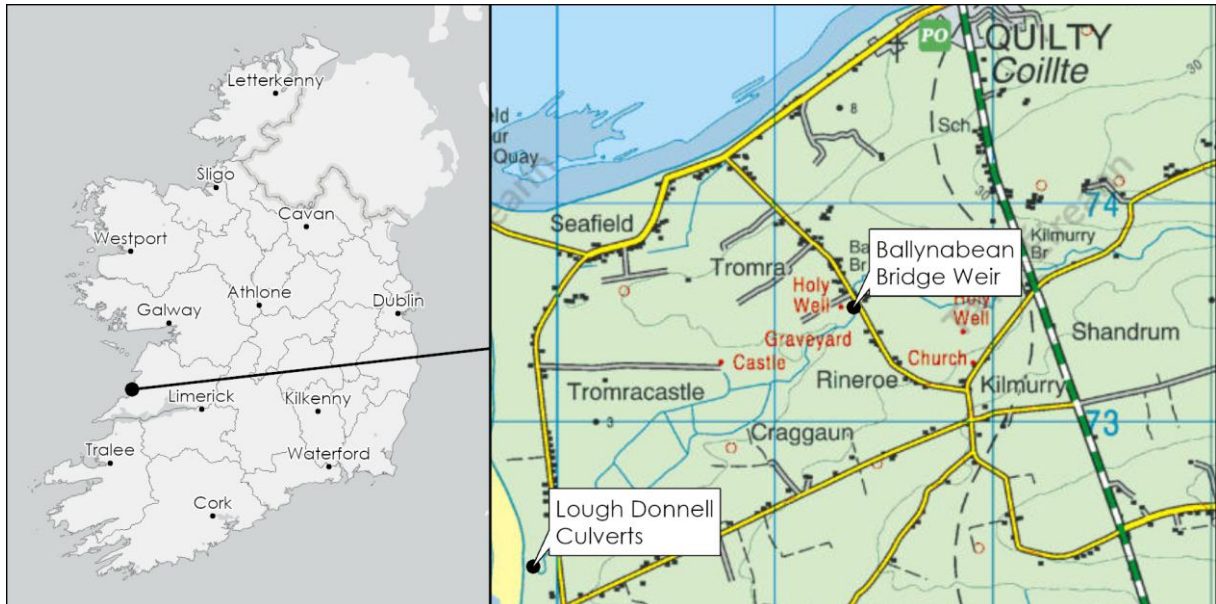


Figure 1 Location Map of Ballynabean Bridge Weir



Plate 1 Ballynabean Bridge Weir - Upstream



Plate 2 Ballynabean Bridge Weir – Downstream

1.2 Drehidnalacken Bridge

The Drehidnalacken Bridge located in Knockaguilla, County Clare located on the Aille River. IFI has identified the Drehidnalacken Bridge as a small, mass concrete/masonry structure with drop at outlet and with strong flows and standing wave. No fish pass is currently provided. The structure as a high risk to sea lamprey, river lamprey and brown trout and an impassable structure to shad, pike and cyprinids fish species. An IBAST assessment confirmed that the barrier's dimensions (6.5m long and 5.5m wide) hinder both upstream and downstream fish migration.

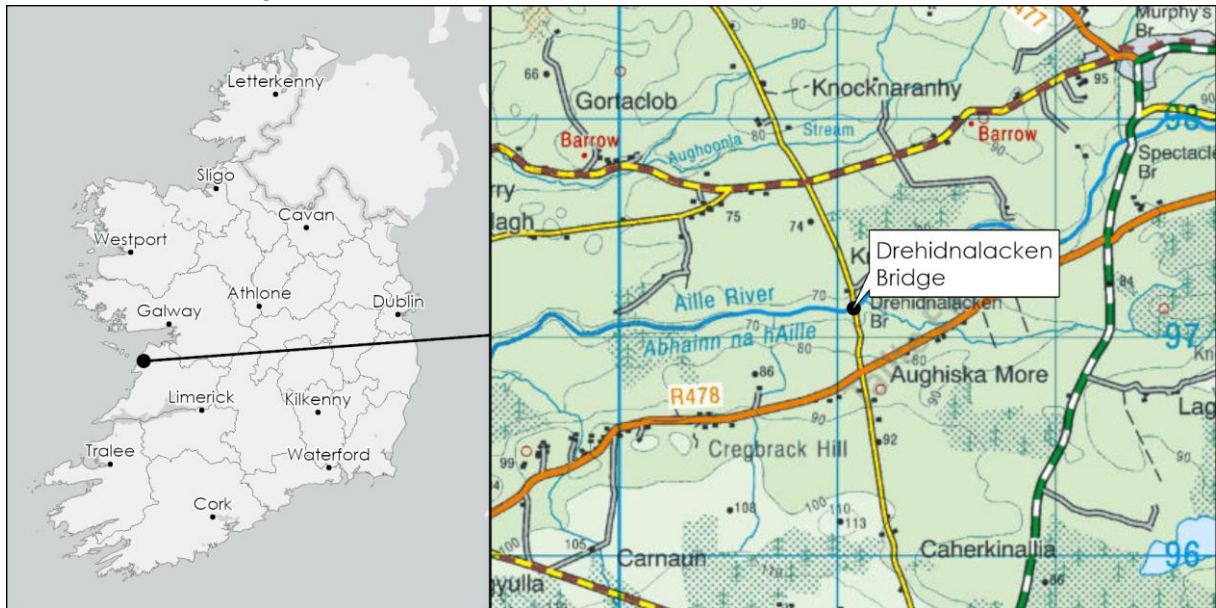


Figure 2 Location Map of Drehidnalacken Bridge



Plate 3 Drehidnalacken Bridge – Upstream



Plate 4 Drehindnalacken Bridge – Downstream

1.3 Roadford Bridge

Raford House Weir is located on the Raford River at Raford, Kiltullagh, County Galway. Raford House Weir is associated with the nearby Raford 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.

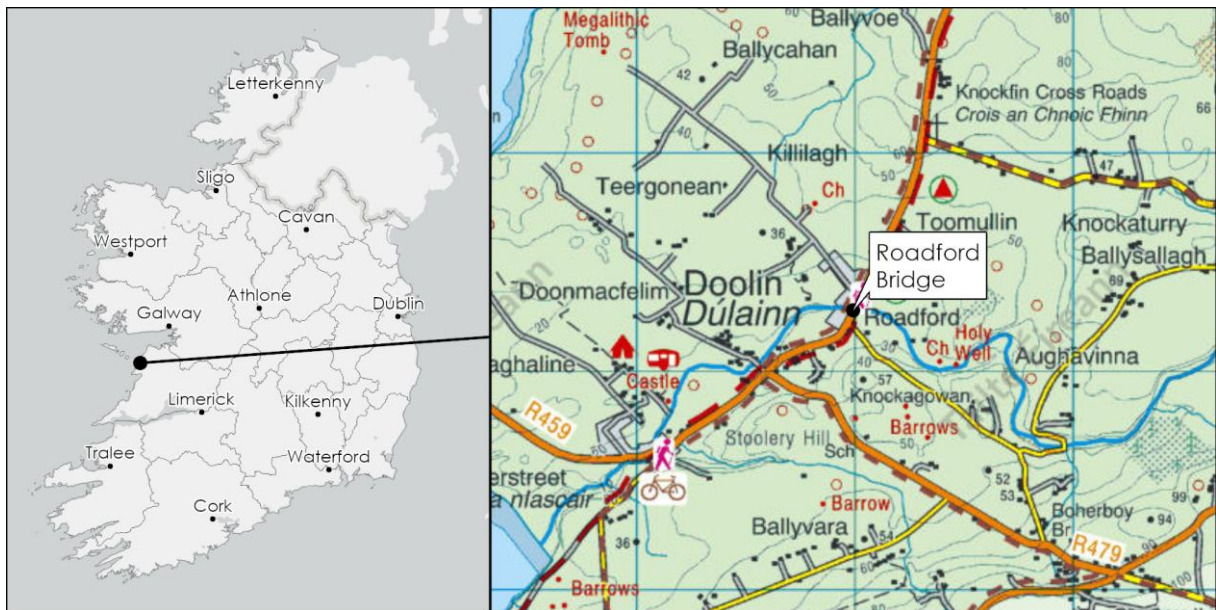


Figure 3 Location Map of Roadford Bridge



Plate 5 Roadford Bridge - Upstream



Plate 6 Roadford Bridge – Downstream

1.4 Black River at Parteen Weir

The Black River at Parteen Weir is located on the Black River just south of Killaloe, Co. Clare. The existing barrier is a concrete weir complex. It is located at the upstream end of a concrete culvert that carries the Black River under the headrace canal for the Ardnacrusha Power Station. The infrastructure was constructed during the mid to late 1920s.

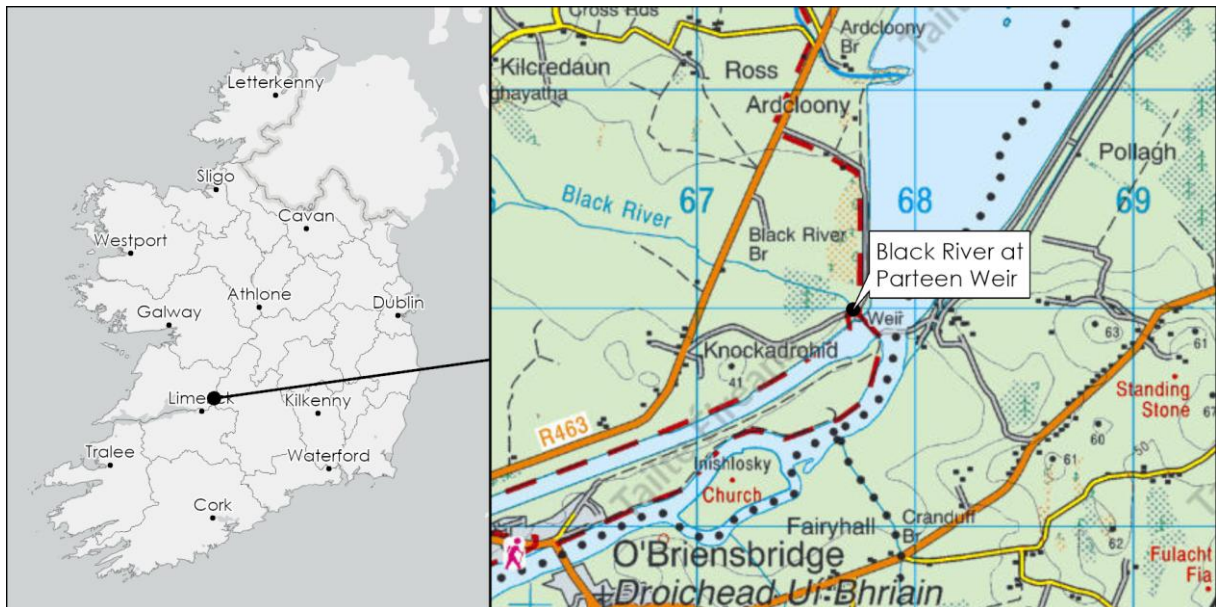


Figure 4 Location Map of Black River at Parteen Weir



Plate 7 Black River at Parteen Weir - Upstream



Plate 8 Black River at Parteen Weir – Downstream

1.5 Kilmallock Sand Trap

The Kilmallock Sand Trap located on the River Loobagh, Co. Limerick. The existing weir is a concrete vertical weir structure owned by OPW with the purpose of acting as a sand trap. It contains a pool type fish pass that was determined to not be effective following a SNIFFER assessment, naming the height of the weir and height of step in the fish pass as the main issues. It is located approx. 1km from the town of Kilmallock.



Figure 5 Location Map of Kilmallock Sand Trap



Plate 9 Kilmallock Sand Trap - Upstream



Plate 10 Kilmallock Sand Trap – Downstream

1.6 Castleroberts Weir

Raford Bridge Weir is located on the Raford River at Raford, 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.

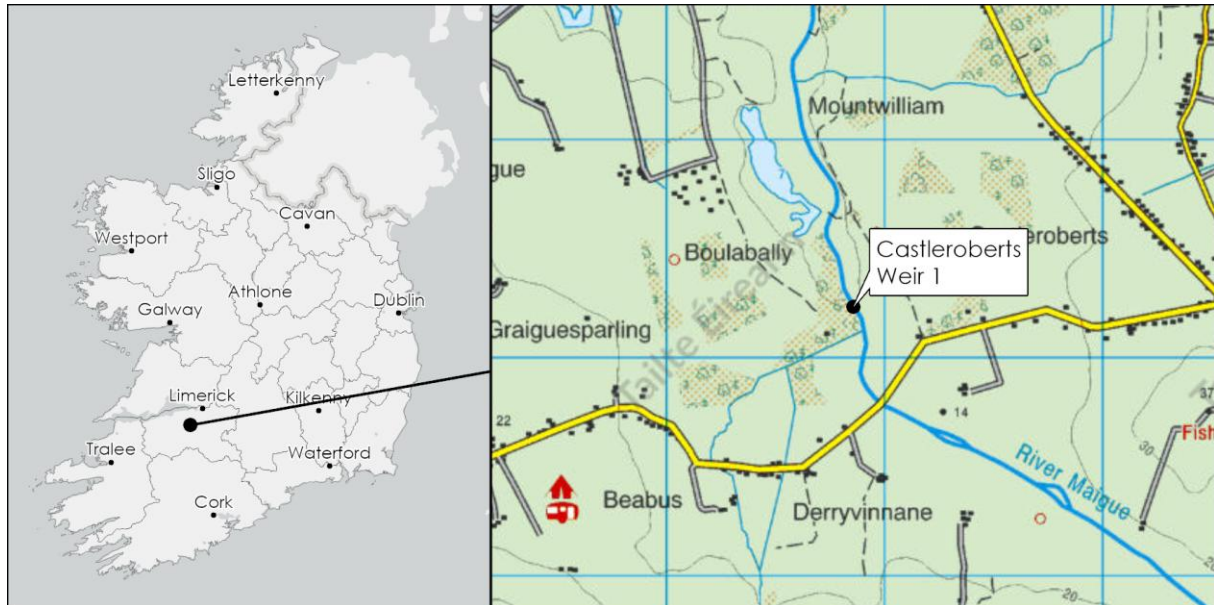


Figure 6 Location Map of Castleroberts Weir



Plate 11 Castleroberts Weir - Upstream

Plate 12 Castleroberts Weir – Downstream