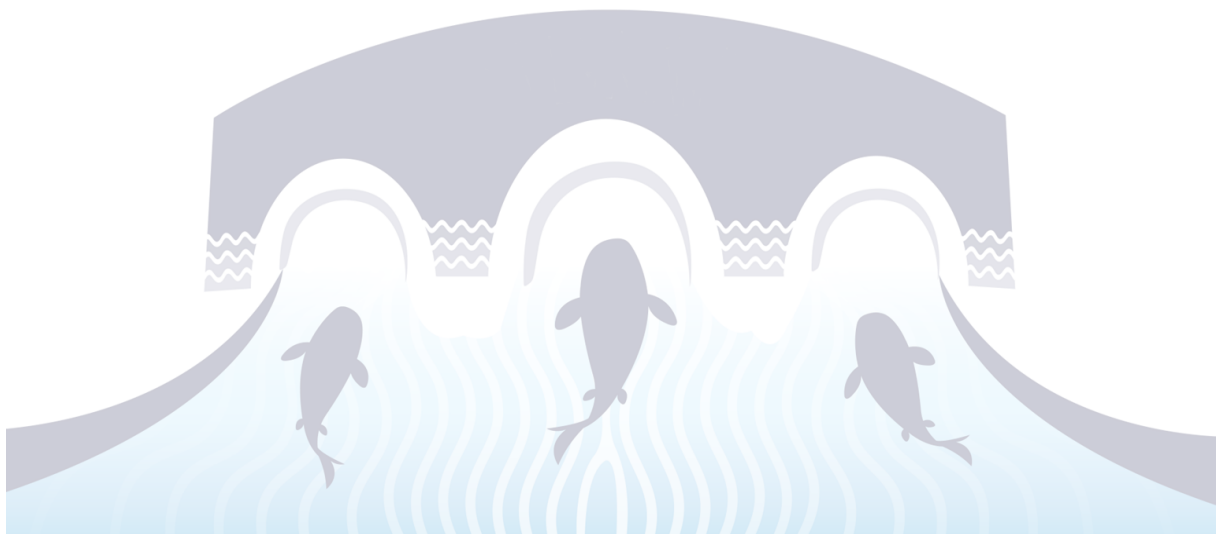




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix A

Lot 1 – Donegal/Leitrim



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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 1.5.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0862004	Cloontagh Bridge	Donegal	40_552_21	55.249788N 7.37284W
2	0863006	Ballintra River Weir	Donegal	37_2396_96	54.576471N 8.136012W
3	0863007	Bungosteen River Weir	Donegal	37_1185_15	54.65498N 8.420479W
4	0863009	Newmills Weir	Donegal	39_1459_20	54.929477N 7.816165W
5	0862008	Tullyhoner Weir	Donegal	39_1273_6	54.931451N 7.927757W
6	0862006	Largydonnell Gravel Trap	Leitrim	35_3302_0	54.411274N 8.319312W

Table 1 Barrier Mitigation Projects

1.1 Cloontagh Bridge

Cloontagh Bridge is located on the Cloontagh River, in Clonmany, County Donegal. See figure 1 below. This barrier on the Cloontagh River at the bridge known locally as the Iron Bridge. There is approximately 600mm vertical drop at the downstream edge of the concrete apron of the bridge as a result of ongoing erosion processes. This vertical drop currently acts as a significant physical and hydraulic barrier to fish passage, preventing migratory species such as salmon and trout from accessing upstream spawning and juvenile rearing habitats. The barrier is particularly problematic during periods of low to moderate river flows, when fish are unable to overcome the vertical obstacle.

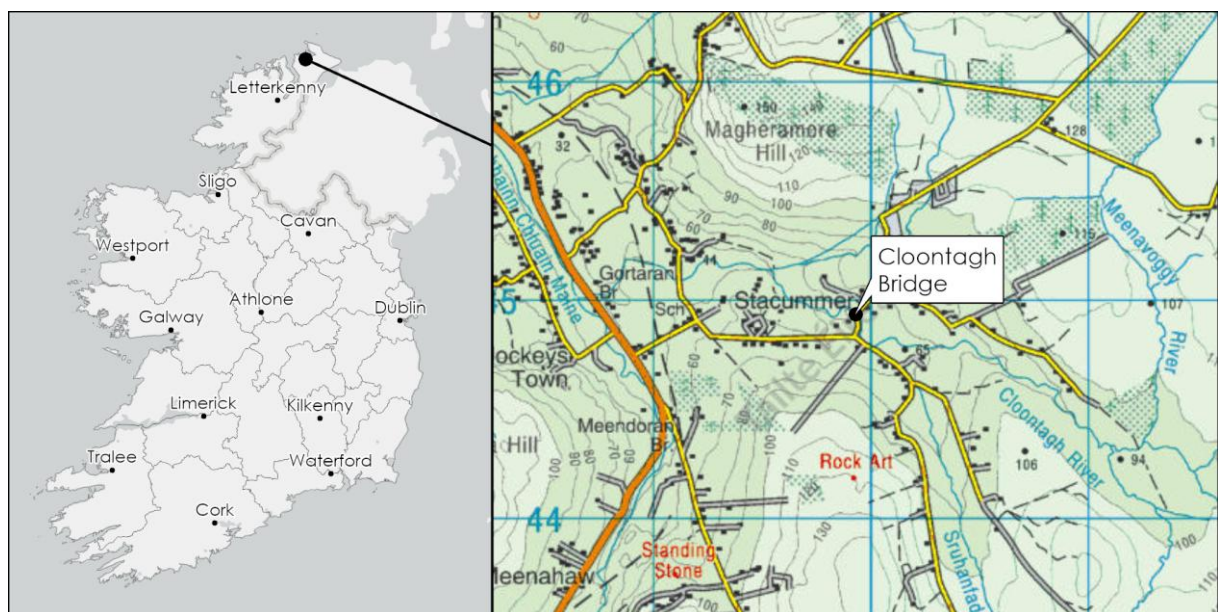


Figure 1 Location Map of Cloontagh Bridge



Plate 1 Cloontagh Bridge - Downstream



Plate 2 Cloontagh Bridge – Upstream

1.2 Ballintra River Weir

The Ballintra River Weir is located in Ballynacarrick, Ballintra, Co. Donegal located downstream of the Ballintra SAC: 000115 SAC. The weir is a High-Risk Barrier to fish passage. An I-BAST assessment confirmed that the mass concrete weir (11.0 m width, 1.4 m height) is impassable for several key species, including: shad, sea lamprey, river lamprey, pike, cyprinids – Impassable, and for: Salmon (adult), Salmon (smolt), brown trout – High risk.

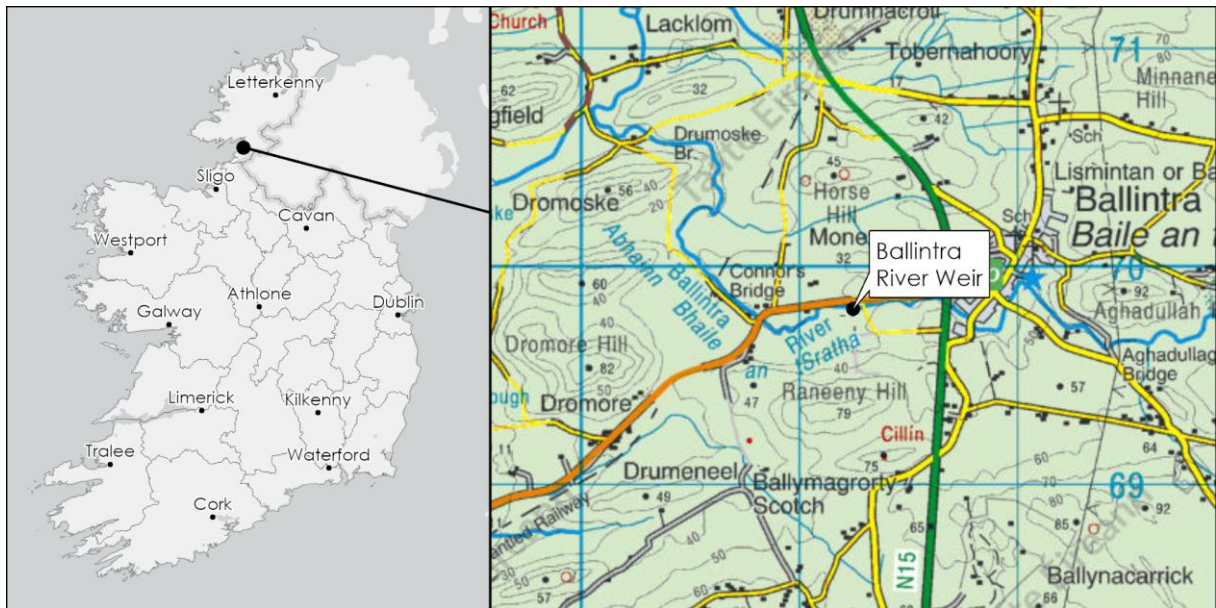


Figure 2 Location Map of Ballintra River Weir



Plate 3 Ballintra River Weir - Upstream



Plate 4 Ballintra River Weir – Downstream

1.3 Bungosteen River Weir

The Bungosteen River Weir is in Straleeny, County Donegal located on the Stragar_SC 010 River. The weir lies within the Stragar_SC_010 sub-catchment, which is not directly designated as a SAC or SPA. The structure impedes sediment and nutrient transport, reducing the availability of gravels and fine sediments essential for providing habitat functions for fish such as salmonids and lamprey, and other aquatic organisms and plants throughout their life cycles.

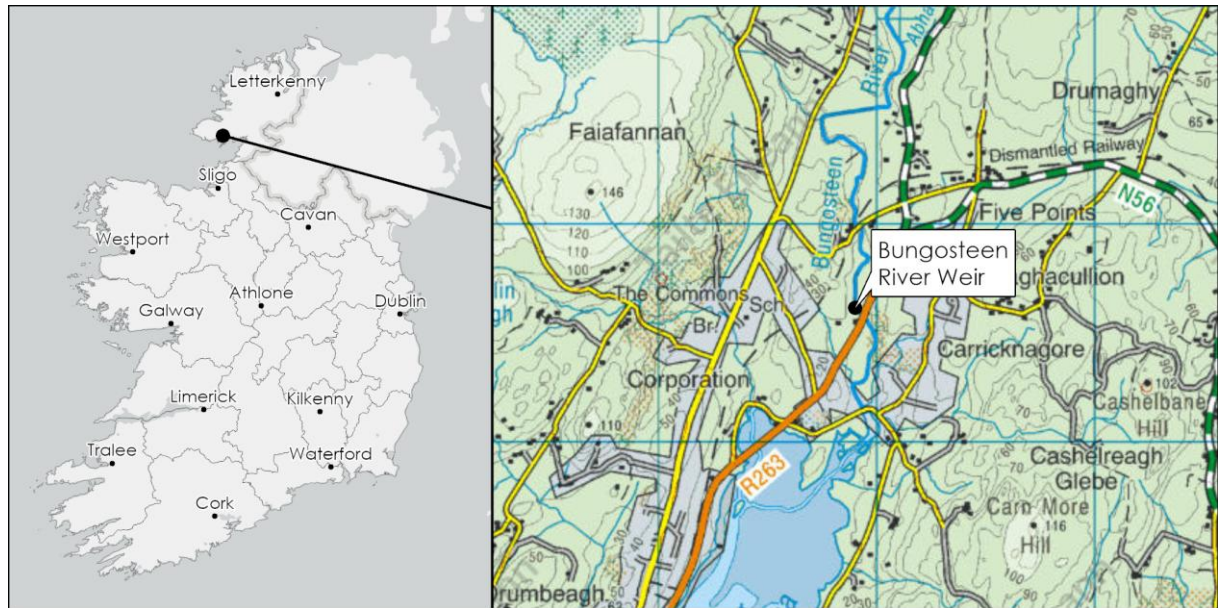


Figure 3 Location Map of Bungosteen River Weir



Plate 5 Bungosteen River Weir - Upstream



Plate 6 Bungosteen River Weir – Downstream

1.4 Newmills Weir

The Newmills Weir is in Drumanaught, Letterkenny, Co. Donegal, located on the River Swilly, upstream of SAC: 002287 Lough Swilly SAC. IFI has identified the Newmills Weir as a Moderate Risk Barrier to fish passage. An I-BAST assessment confirmed that the mass concrete and masonry weir (25.0 m width, 1.0 m drop height) is at risk for several key species, including: Salmon (adult), Salmon (smolt), Eel (elver), Eel (adult) – Low risk, and for: sea lamprey, river lamprey – Moderate risk.

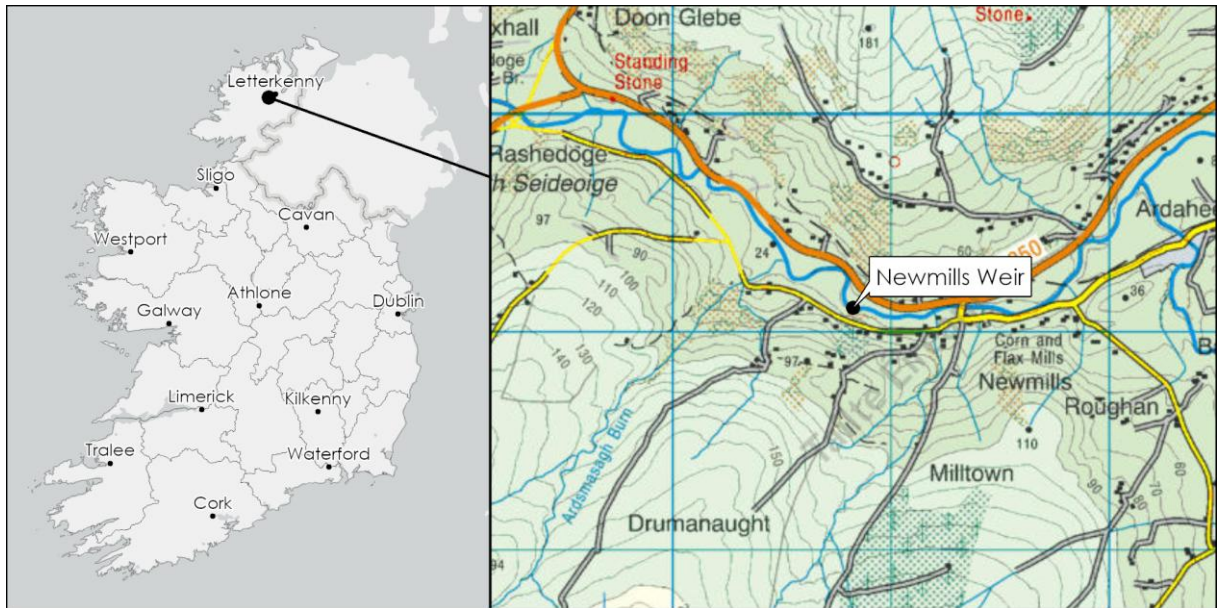


Figure 4 Location Map of Newmills Weir



Plate 7 Newmills Weir - Upstream



Plate 8 Newmills Weir – Downstream

1.5 Tullyhoner Weir

The Tullyhoner Weir located on the River Swilly in Co. Donegal. The existing structure is a 3 tiered concrete weir that was constructed by IFI 20+ years ago. The weir design incorporated engineered fish passes which seems to be functional. However, the natural rock immediately upstream restricts fish migration past that point.

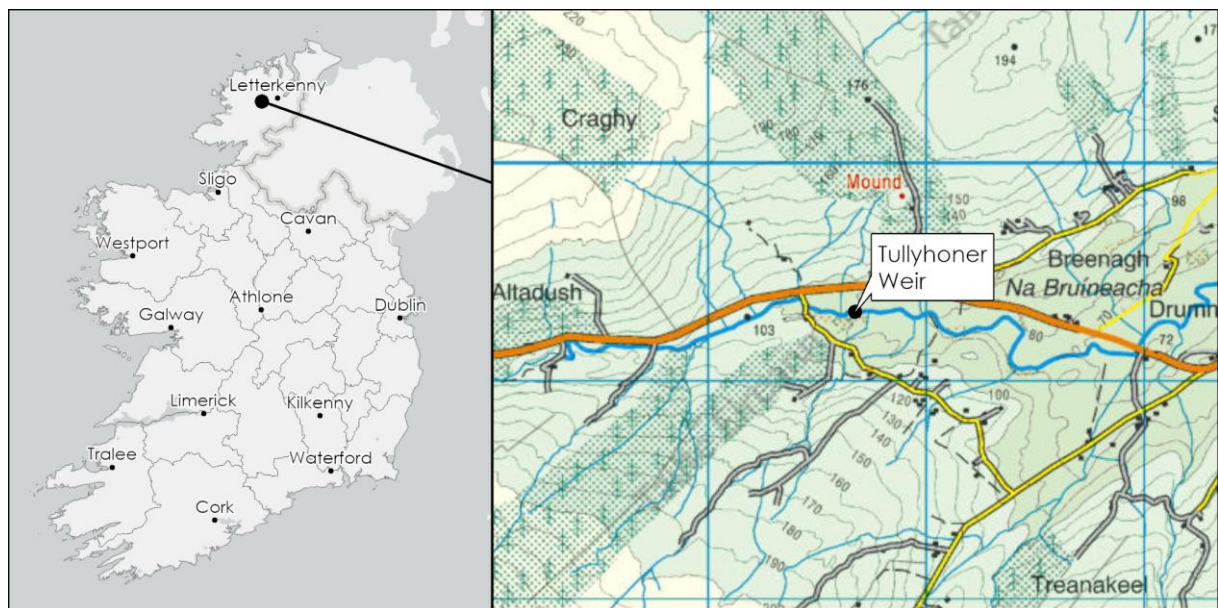


Figure 5 Location Map of Tullyhoner Weir



Plate 9 Tullyhoner Weir – Downstream

1.6 Largydonnell Gravel Trap

Largydonnell Gravel Trap is a disused sand and gravel trap on a tributary to the River Duff in County Leitrim. The structure is a 3-tiered concrete weir structure that has a total height of approximately 3m, that acts as a gravel trap. The structure is owned by the OPW. IFI completed a SNIFFER report in 2019 that identified this structure as a complete barrier for all fish species. The structure has created an impoundment (approximately 90m length, 30m length) that has trapped significant quantities of gravel, preventing this material from supplying downstream reaches



Figure 7 Location Map of Largydonnell Gravel Trap



Plate 12 Largydonnell Gravel Trap - Upstream



Plate 13 Largydonnell Gravel Trap – Downstream