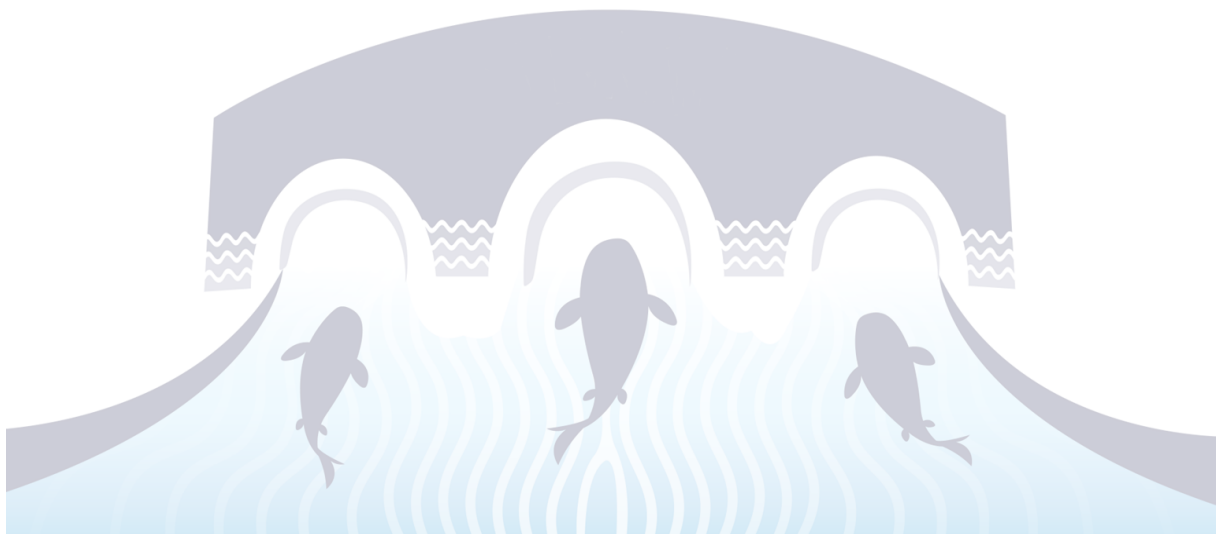




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix H

Lot 8 – Carlow/Laois



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1 Project Description

The full commission of this tender includes 4 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 1.4.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0813010	Tullow Weir	Carlow	12_1651_47	52.804315N 6.741464W
2	0814006	Templeowen Weir	Carlow	12_1398_76	52.791216N 6.746313W
3	0813014	Castletown Basin Weir	Laois	15_911_105	52.978245N 7.544117W
4	0812029	Garryhill Weir	Carlow	14_779_16	52.676641N 6.839437W

Table 1 Barrier Mitigation Projects

1.1 Tullow Weir

The Tullow Weir is located on the River Slaney in Co. Carlow. The existing weir is of masonry structure. The existing weir will need some modifications and repairs, along with work to the ground and soil around it to facilitate the migration of fish species. The barrier is located in the Slaney River Valley SAC (000781).

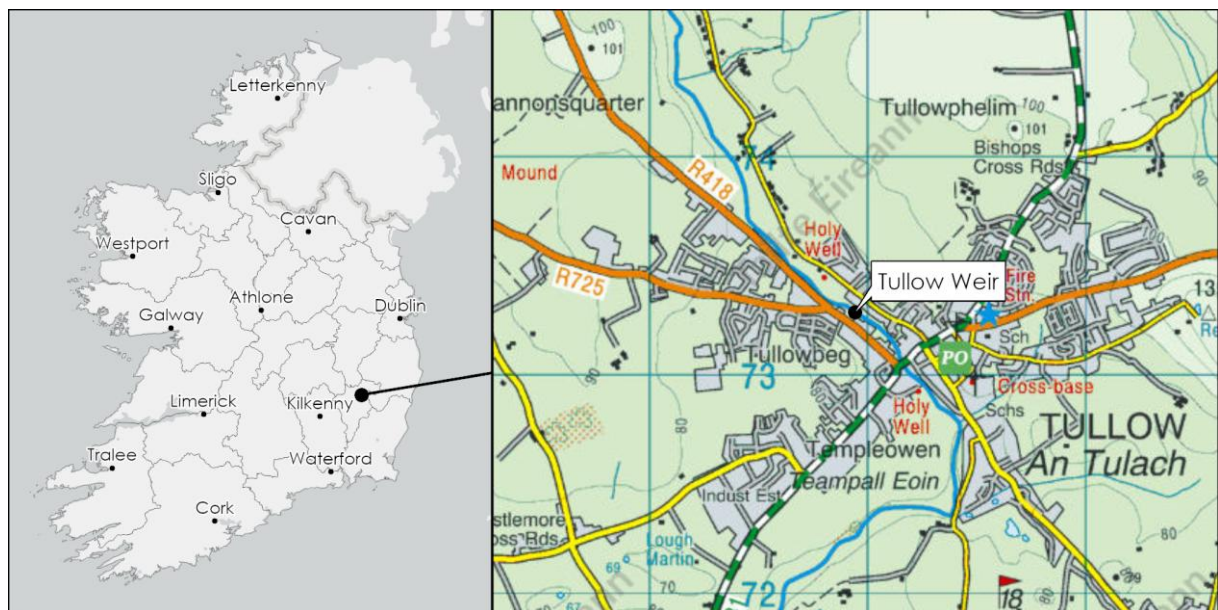


Figure 1 Location Map of Tullow Weir



Plate 1 Tullow Weir - Downstream



Plate 2 Tullow Weir – Upstream

1.2 Templeowen Weir

The Templeowen Weir is located on the River Slaney in Co. Carlow. The existing barrier is a Fixed-crest weir, likely stone masonry circa mid-18th Century. Low-head broad-crested structure, spanning full river width, uniform crest with plunging flow in moderate/high discharge.

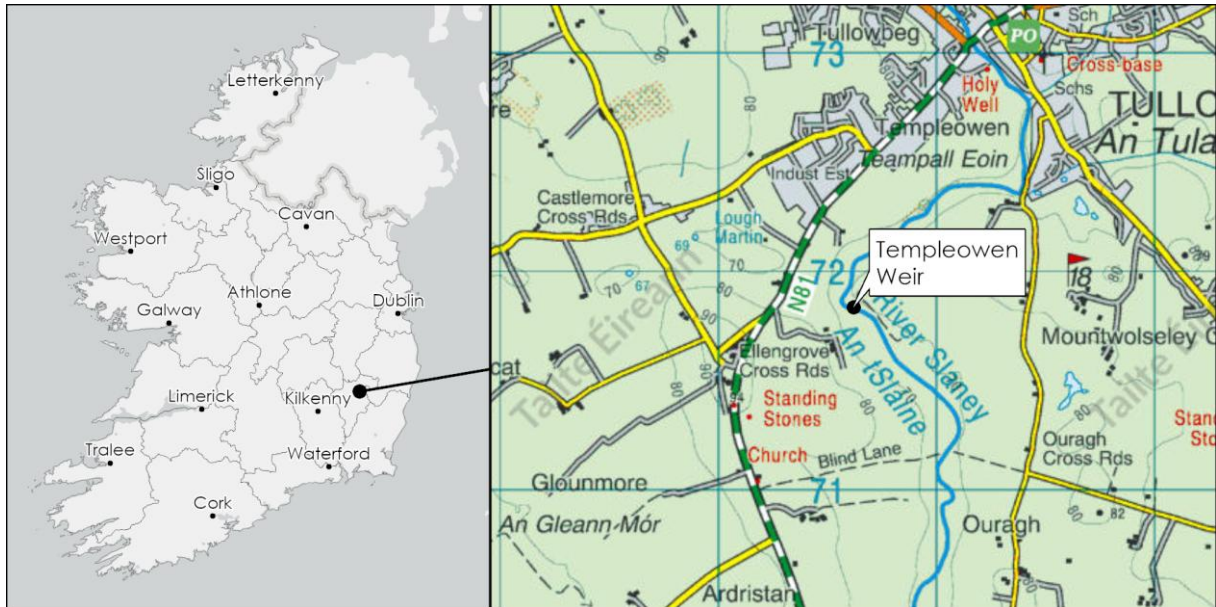


Figure 2 Location Map of Templeowen Weir

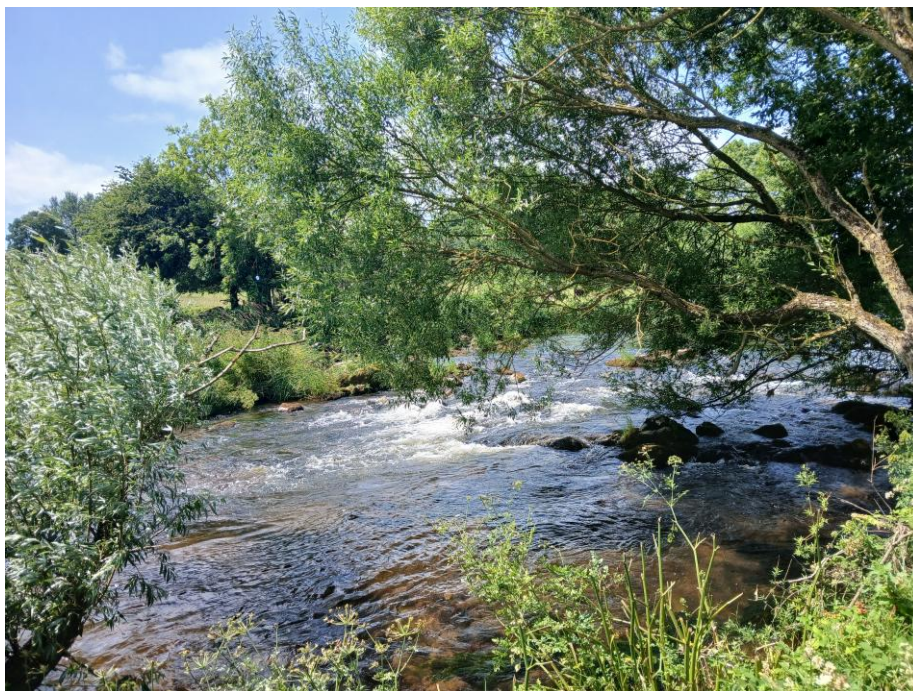


Plate 3 Templeowen Weir - Upstream



Plate 4 Templeowen Weir – Downstream

1.3 Castletown Basin Weir

The Castletown Basin Weir located on the River Delour (Nore) in Co. Laois. The existing structure will need some modifications, along with work to the ground and soil around it to facilitate the migration of fish species. The barrier is located in the River Barrow and River Nore SAC (002162) and River Nore SPA (004233).

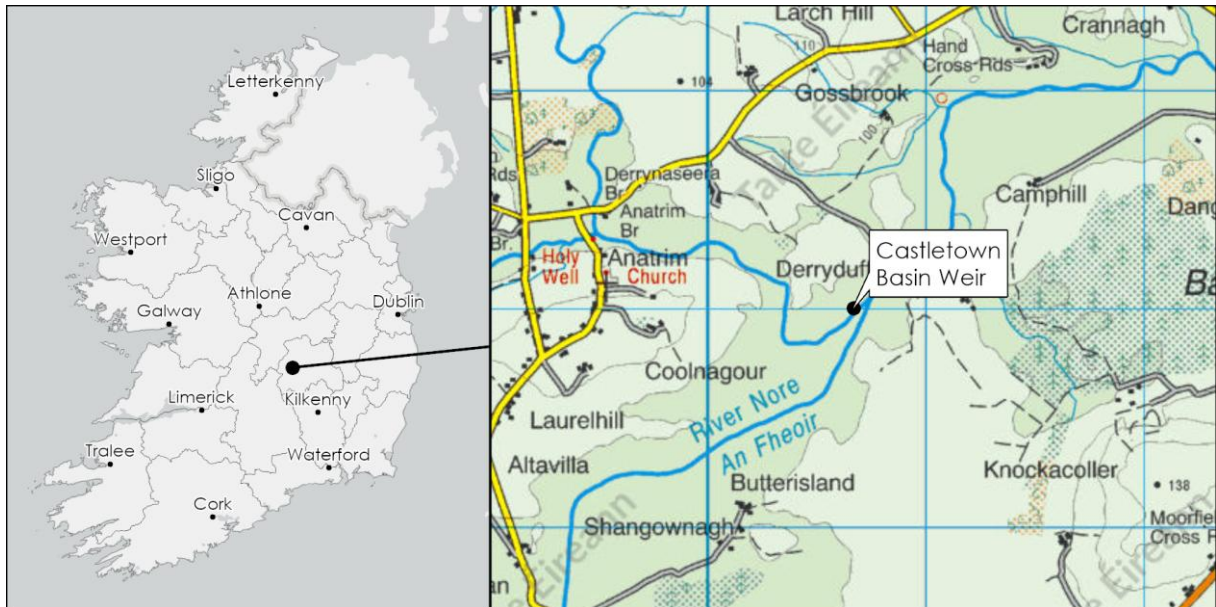


Figure 3 Location Map of Castletown Basin Weir

1.4 Garryhill Weir

The Garryhill Weir is located on the Burren River in County Carlow. The existing barrier is a weir of masonry and concrete construction. Its original function is unclear but is likely related to a 'Hook Mill' indicated on the 6" First Edition Ordnance Survey map approx. 100m SSE of the weir. The structure is situated in a narrow channel of approx. 3m, and is approx. 4m in length, 2m in height, steep, and of rough construction. The structure presents a high or impassible risk to all species. The barrier is located in a moderately wooded section of the river channel, with private residential land to the west, open agricultural land to the north and south, and a heavily overgrown area of land to the east.

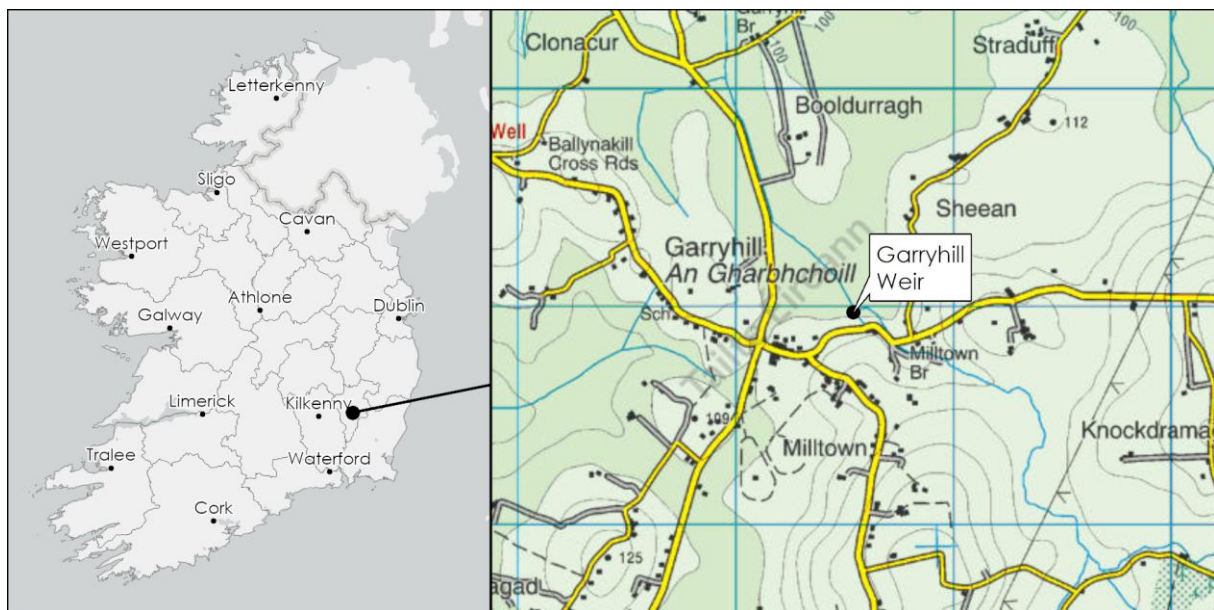


Figure 4 Location Map of Garryhill Weir

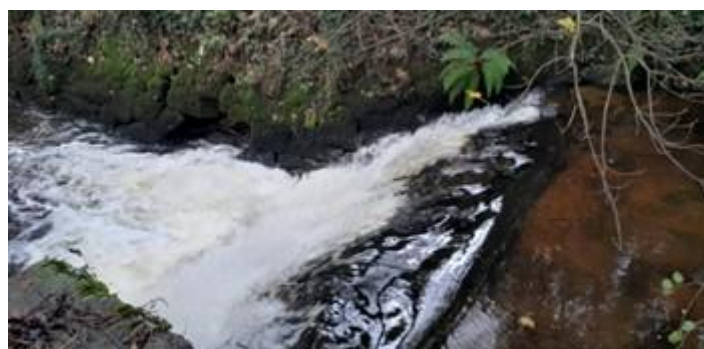


Plate 5 Garryhill Weir - Upstream