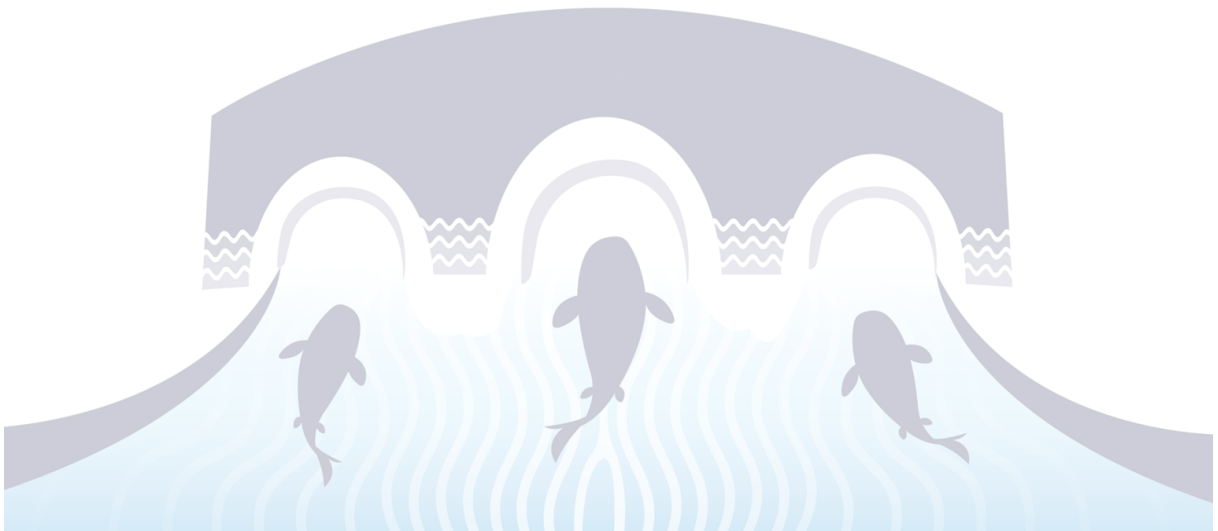




National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix E

Lot 5 – Cork/Waterford



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1 Project Description

The full commission of this tender includes 3 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 1.3.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0812026	Ballaghavorrage Bridge	Waterford	17_662_54	52.127916N 7.543648W
2	0822008	Roxborough Weir	Cork	19_1902_67	51.92329N 8.148474W
3	0824002	Rosnalee Weir	Cork	18_2580_6	52.128374N 8.923467W

Table 1 Barrier Mitigation Projects



Plate 1 Ballaghvorrage Bridge - Upstream



Plate 2 Ballaghvorrage Bridge – Downstream

1.2 Roxborough Weir

The Dungourney River in East Cork was historically the main source of water for the Midleton Distillery. The weir itself is a barrier to fish migration, but in addition is the old and defunct penstock system downstream. This can also create occasional barriers, as and when woody debris becomes trapped across the old steel I beams used to hold boards to alter water levels. In the millrace section downstream of this weir and penstock system, there is also an old sluice gate that also potentially presents a barrier to fish migration and should be examined for mitigation. The section of the old millrace downstream of this sluice gate often experiences periods without throughflow, regularly drying out, thereby creating a risk of trapping fish.



Figure 2 Location Map of Roxborough Weir



Plate 3 Roxborough Weir- Upstream



Plate 4 Roxborough Weir- Downstream

1.3 Rosnalee Weir

This weir is near Banteer, Co. Cork on the main stem of the Munster Blackwater. This sloping weir is situated upstream of Ballymaquirk bridge, Co. Cork. This weir was originally constructed to supply water to Blackwater Mill, built in the early 19th (~1805) century as either a woollen or flower mill. A SNIFFER assessment of the barrier found its height (1.59m) and slope (24.04%) represented a complete swim barrier to juvenile salmon, cyprinids and adult lamprey and a high impact partial barrier to adult salmonids. This sloping weir has a sluice bypass channel on the left hand bank. This bypass is a swim barrier to fish passage with high water velocity, high turbulence flows, standing wave and debris acting as barriers. The original body of the weir was constructed with cut stone. The face of the weir was roughly repaired with concrete and river boulders. The total width of weir along its crest was 43m. The width of the Munster Blackwater at this point was 40m.

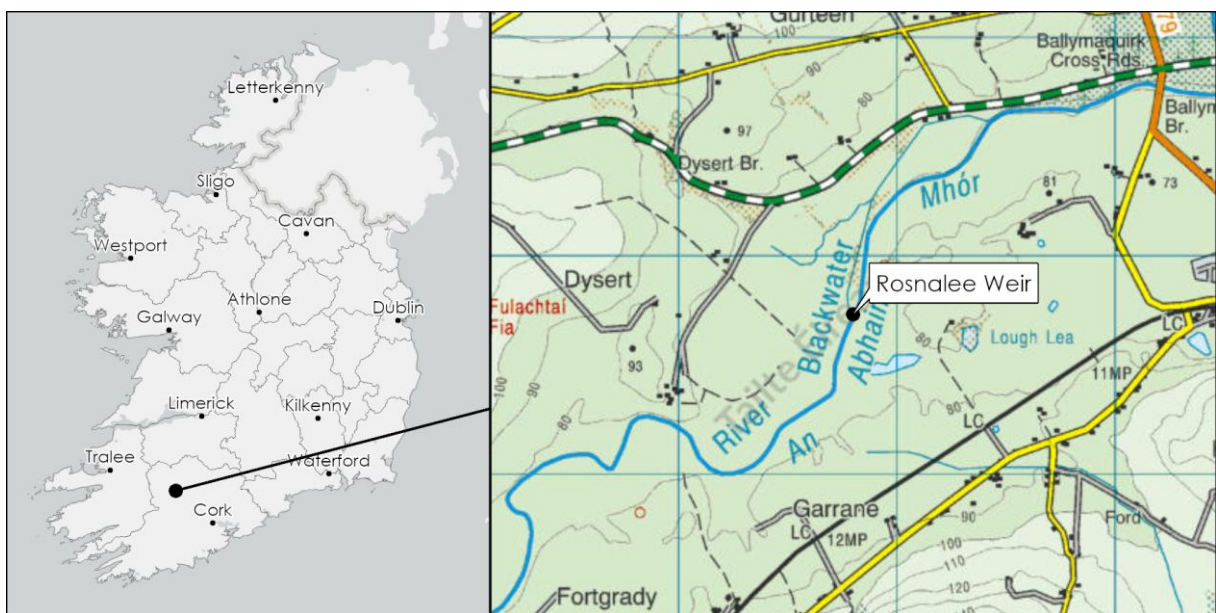


Figure 3 Location Map of Rosnalee Weir



Plate 5 Rosnalee Weir - Upstream



Plate 6 Rosnalee Weir – Downstream