



National Barrier Mitigation Programme

Topographic and Bathymetric Survey Appendix J

Lot 10 – Meath Document Verification Sheet

Project Title: Topographical and Bathymetric Survey Appendix J

Document Title: Lot 10 – Meath

File Reference: NBMP_08.8.01

Date: 14/08/2026

Issue No.: I01

Revision	Date	Description	For Tender	
D01	14/08/2026	Prepared by	Checked by	Approved by
		D O'Shaughnessy	M Murphy	M Murphy
Revision	Date	Description		
I01	14/08/2026	Prepared by	Checked by	Approved by
		D O'Shaughnessy	M Murphy	M Murphy
Revision	Date	Description		
		Prepared by	Checked by	Approved by

Revision	Date	Description			
		Prepared by	Checked by	Approved by	
Revision	Date	Description			
		Prepared by	Checked by	Approved by	
Revision	Date	Description			
		Prepared by	Checked by	Approved by	
Revision	Date	Description			
		Prepared by	Checked by	Approved by	
Revision	Date	Description			
		Prepared by	Checked by	Approved by	

Contents

Topographic and Bathymetric Survey Appendix J	i
Lot 10 – Meath	i
1 Project Description	5
1.1 Lady Bridge	5
1.2 Clavens Bridge Weir	7
1.3 Knightsbrook Weir	9
1.4 Mahonstown Weir	11
1.5 Newgrange Weir	13
1.6 Balreask Ford	14

List of Tables and Figures

Table 1 Barrier Mitigation Projects.....	5
Figure 1 Location Map of Lady Bridge.....	6
Figure 3 Location Map of Clavens Bridge Weir	7
Figure 4 Location Map of Knightsbrook Weir.....	9
Figure 5 Location Map of Mahonstown Weir	11
Figure 6 Location Map of Newgrange Weir	13
Plate 1 Lady Bridge - Downstream	6
Plate 5 Clavens Bridge Weir - Upstream	7
Plate 6 Clavens Bridge Weir – Downstream.....	8
Plate 7 Knightsbrook Weir - Upstream	9
Plate 8 Knightsbrook Weir – Downstream	10
Plate 9 Mahonstown Weir - Upstream	12
Plate 10 Mahonstown Weir – Downstream.....	12
Plate 11 Newgrange Weir – Upstream	13

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 1.6.

Site Number	Project Code	Project Barrier	County	U28 ID	Coordinates
1	0892011	Lady Bridge	Meath	06_563_119	53.817132N 6.736348W
2	0893005	Clavens Bridge Weir	Meath	07_1081_93	53.740948N 6.91744W
3	0892010	Knightsbrook Weir	Meath	07_1075_20	53.540719N 6.762738W
4	0892012	Mahonstown Weir	Meath	07_1515_149	53.767647N 6.855812W
5	0894003	Newgrange Weir	Meath	07_1447_21	53.694861N 6.496377W
6	0892008	Balreask Ford	Meath	07_1561_127	54.929477N 7.816165W

Table 1 Barrier Mitigation Projects

1.1 Lady Bridge

The Lady Bridge is a bridge apron located on the Dee River in Nobber Co. Meath. This structure is a bridge/box culvert on the Dee River that is on L34401 approx. 300m from Nobber Cemetery. The bridge apron is elevated from the river bed at the downstream face of the bridge/box culvert. There is a 15 degree slope up to the bridge apron and a drop from the bridge apron into river. The culvert is 1.8m wide by 7m long. IFI completed a IBAST assessment in 2022 and has identified this structure as an impassable barrier for Salmon, Salmon smolt, Lamprey, Shad, Pike, Brown Trout and Cyprinids fish species.

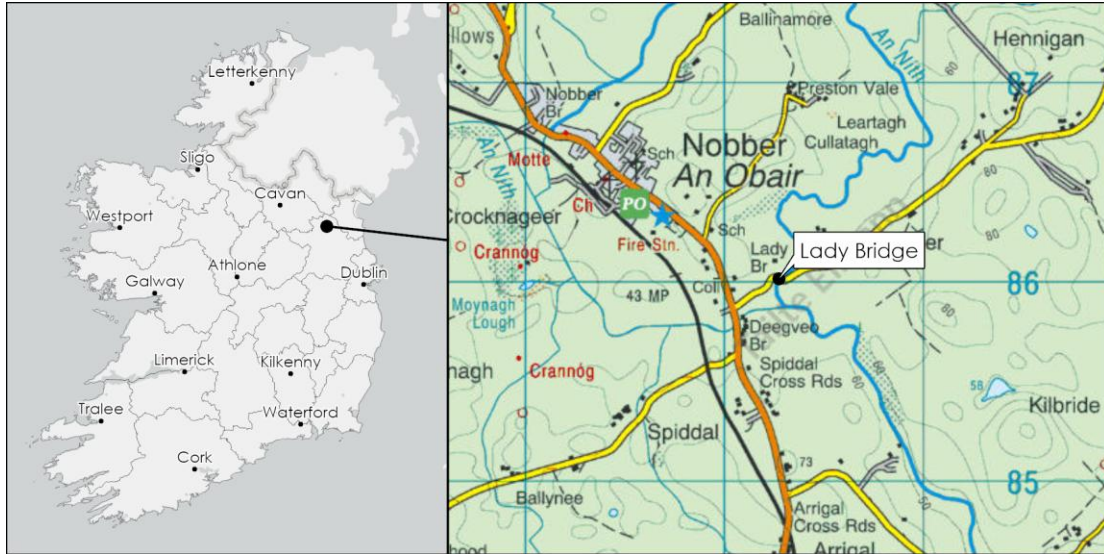


Figure 1 Location Map of Lady Bridge



Plate 1 Lady Bridge - Downstream

1.2 Clavens Bridge Weir

The Clavens Bridge Weir is a concrete weir structure on the Blackwater River, in the townland of Rathbrack, Co. Meath. The structure is located within a designated Natura 2000 site River Boyne and River Blackwater SAC 002299 and SPA 004232. The weir has a 45 degree slope, a 0.90m barrier height and a width of 20m long. The weir is also located at an abstraction plant. IFI completed a Tablet Survey 123 report in 2021 that identified this structure as an impassable barrier for shad, lamprey, pike and cyprinids.

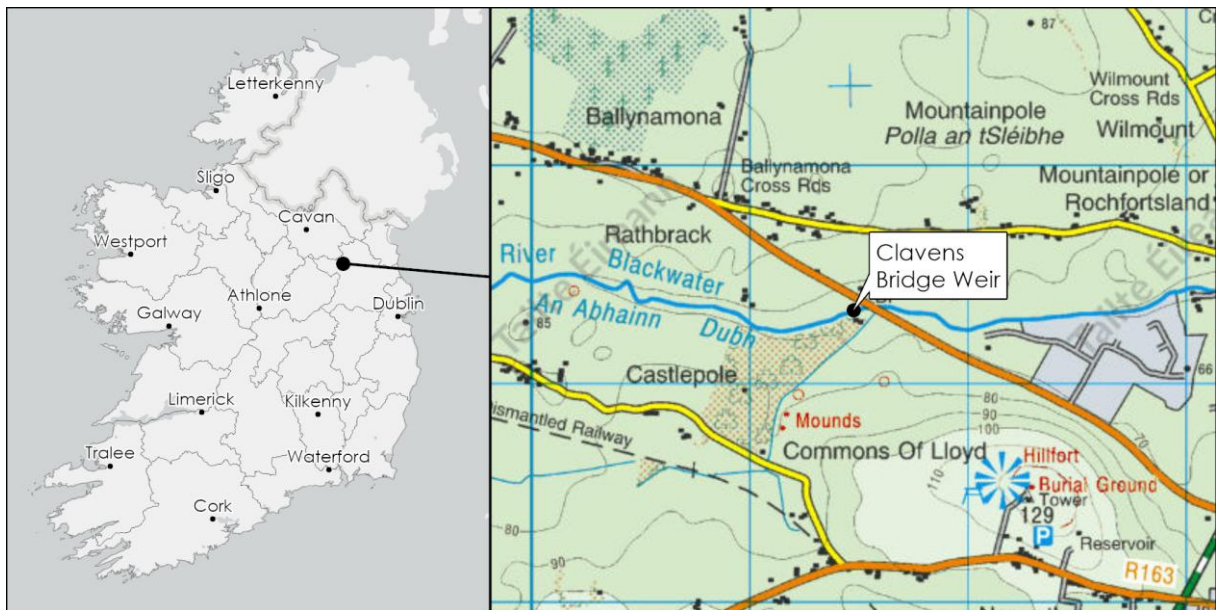


Figure 2 Location Map of Clavens Bridge Weir



Plate 2 Clavens Bridge Weir - Upstream



Plate 3 Clavens Bridge Weir – Downstream

1.3 Knightsbrook Weir

The Knightsbrook Weir located on the River Knightsbrook in Co. Meath. The existing structure will need some modifications, along with work to the ground and soil around it to facilitate the migration of fish species.



Figure 3 Location Map of Knightsbrook Weir



Plate 4 Knightsbrook Weir - Upstream



Plate 5 Knightsbrook Weir – Downstream

1.4 Mahonstown Weir

The Mahonstown Weir is a mass concrete weir structure on the Moynalty River in townland of Mahonstown, County Meath. The weir is recorded on the NIAH website, though presently in poor condition this weir is representative of nineteenth-century industrial activity. The weir formed a mill pond to the west of the weir. With a hydraulic ram and eel trap, formerly located to the site, this weir formed part of a group of structures relating to Mahonstown House. The weir has a vertical drop of 1.05m and the barrier has a wet width of 9.78m. IFI completed a SNIFFER report in 2018 that identified this structure as an impassable barrier for salmon smolt, shad, lamprey, pike and cyprinids.

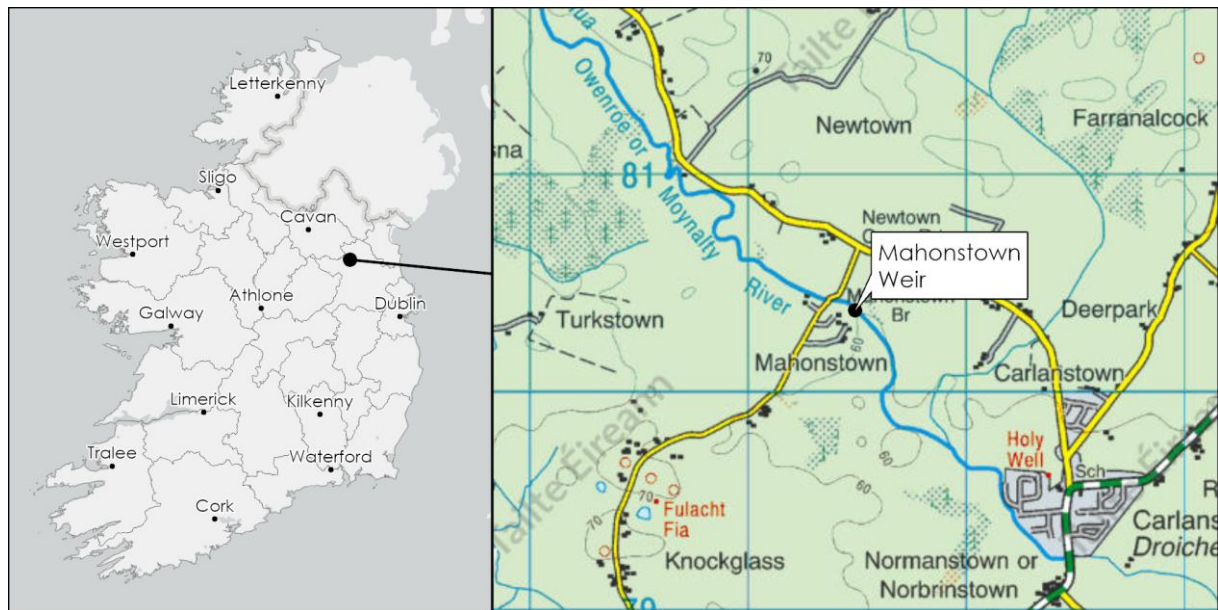


Figure 4 Location Map of Mahonstown Weir



Plate 6 Mahonstown Weir - Upstream



Plate 7 Mahonstown Weir – Downstream

1.5 Newgrange Weir

The Newgrange Weir is located on the River Boyne in Co. Meath. 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 Boyne and River Blackwater SAC (002299) and River Boyne and River Blackwater SPA (004232).

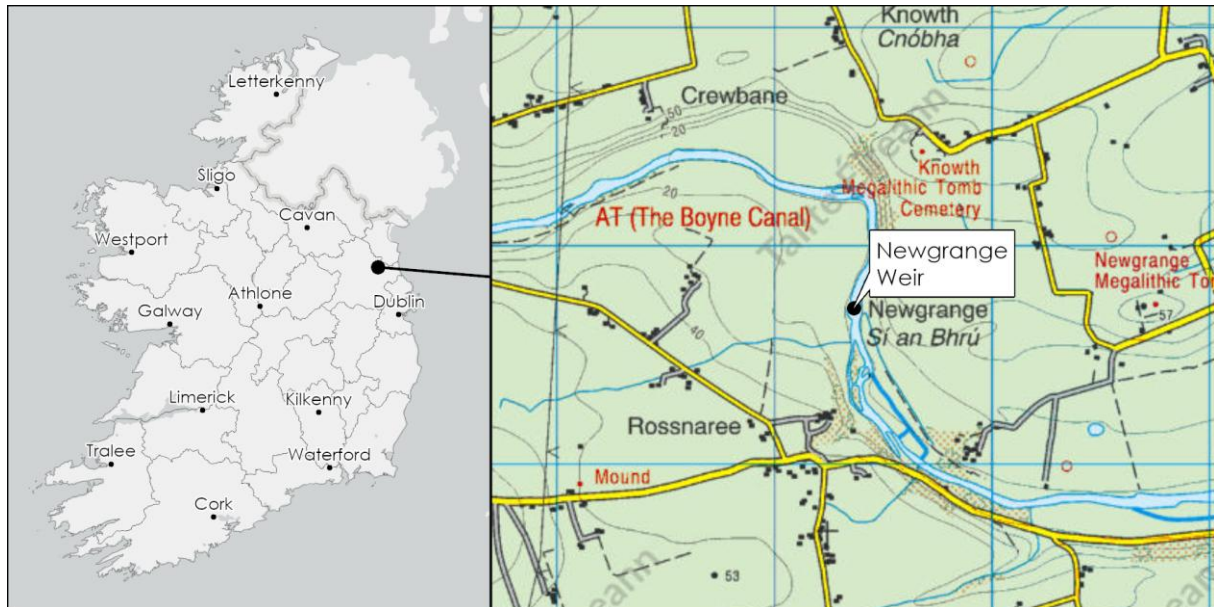


Figure 5 Location Map of Newgrange Weir



Plate 8 Newgrange Weir – Upstream

1.6 Balreask Ford

Balreask Ford is located on the Moynalty_060 River, in Balreask, County Meath. The structure is a mass concrete ford with a barrier height of 0.4m that is built on the river bed. The ford is 5.5m long in the river channel and is located between two fields. The structure restricts fish passage and allows vehicles to drive through the river bed, which presents a dual risk to the integrity of the river habitat. Although the ford enables crossing by animals and farm vehicles, this can deliver sediment and pollutants to the river, particularly where the crossing is part of a farm. Beyond blocking passage, impoundments caused by barriers can elevate water temperatures, adversely affecting cold-water species such as salmonids. Additionally, 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.

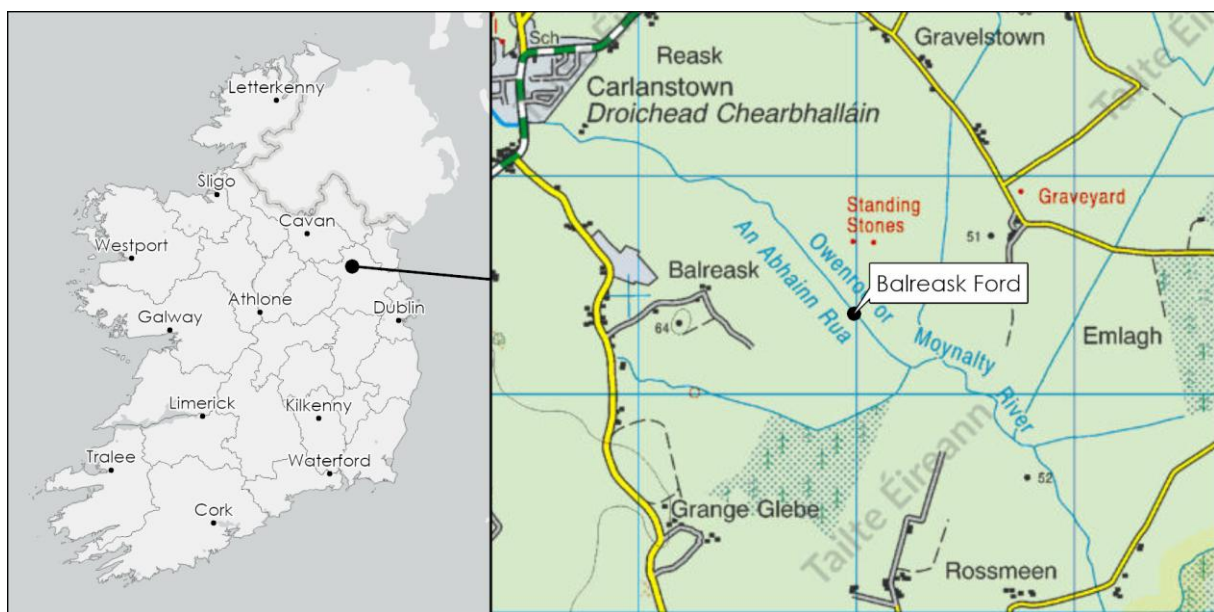


Figure 7 Location Map of Balreask Ford



Plate 12 Balreask Ford - Upstream



Plate 13 Balreask Ford – Downstream