



Lower Bann Jetties (Phase 2) – Civils Works

Contract Value: £585,000
Consulting Engineer: Waterways Ireland
Engineer's Representative: Michael McAuley (028 6632 3004)
Client: Waterways Ireland
Client's Representative: Stephen Forrest (028 6632 3004)
Works completed: September 2005.

Categories:- Marine Civil Engineering, General Civil Engineering, Dredging, Piling, Jetty & Pontoon Installation, Groundworks & Pipelaying, Retaining Walls & Reinforced Earth Slopes.

Works Comprised:

- Construction of 6No new Jetty facilities at the following lock structures on the Lower Bann:- Toome (Upstream and Downstream), Movanager (Upstream & Downstream), Carnroe (Downstream) and The Cutts (Downstream).
- Each jetty facility comprises construction of:-
 - o New Gabion Retaining Walls constructed from approx. 1.5m below normal river water level. A Total of 1,600m³ of Gabion Retaining Wall structures were constructed. At Carnroe, the Retaining Wall structure comprised a sheet piled wall faced with hardwood timber cladding.
 - o Installation of a total of 22No Dia. 406mm Tubular Steel Pontoon Locating Piles – pile lengths varying from 8m to 10m.
 - o Construction of Reinforced Concrete Bankseats on the existing masonry lock structures to accommodate new access linkspans and floating pontoons.
 - o Miscellaneous Handrailing and Landscaping works at each facility.
- The construction of the Gabion Retaining Walls at each location required the construction of sheet piled cofferdams approx. 50m long at each site to enable construction of Gabion Mattresses and Baskets in relatively dry conditions.



Excavator Mounted Vibrating (EMV400) Piling Hammer



45T Excavator Pitching Tubular steel Pontoon Locating Pile in preparation for driving

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30c Ballygelagh Road, Kircubbin, Newtownards, Co. Down BT22 1AE
Tel: 028 4277 2781 Fax: 028 4277 2685



View of cofferdam formed along river and construction of 50m long x 3.5m high Gabion Retaining Wall under construction.



View showing the completed Retaining Wall, pontoons and associated Landscaping at Movanager



Removing Sheet Piled cofferdam and progressing dredging of riverbed. Sheet piled wall with concrete pilecap and timber cladding was constructed within a cofferdam during the winter months where water levels rose up to 1.5m above levels shown.



Completed jetty and pontoon at Carnroe.

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