



# WATER INFRASTRUCTURE



Specialist Civil Engineering and Piling Contractors



DAWSON-WAM are specialist civil engineering and piling contractors with operations in the UK and Ireland. The company undertakes large scale civil engineering and piling projects for public authorities, contractors and developers.

The company was founded in 1971 and has based its business around a collaborative approach to provide our clients with innovative cost effective solutions to today's construction challenges.

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## **Culmore Waste Water Treatment Works**

New treatment facility including refurbishment of existing plant.





Works included construction in reinforced concrete of a large activated sludge plant ASP, overall dimensions 78m x 66m x 6m deep; 6 final settlement tanks, 23m diameter; a 96m x 33m x 4.5m deep storm retention tank and 2 pumping stations, plus various other minor structures. 12,000 cubic meters of concrete were poured, and 1400 tonnes of reinforcement tied.

Construction period: 24 months;  
contract budget around £17m.





### **Dunmurry WwTW, Belfast**

Design and construction of a new industrial unit to cover sludge import facilities, sludge storage, sludge dewatering and cake loading.



## Pennyburn Pumping Station

Top down construction of new pumping station. Works included construction of pump shaft; new control building and outfall into Lough Foyle.

Construction period: 12 months; contract budget around £4.5m.







## Grove Farm, Fleet, Hampshire for Thames Water

Sheet piled cut off water and noise barrier for new pumping station to prevent the potential for sewer flooding.



## Warrenpoint

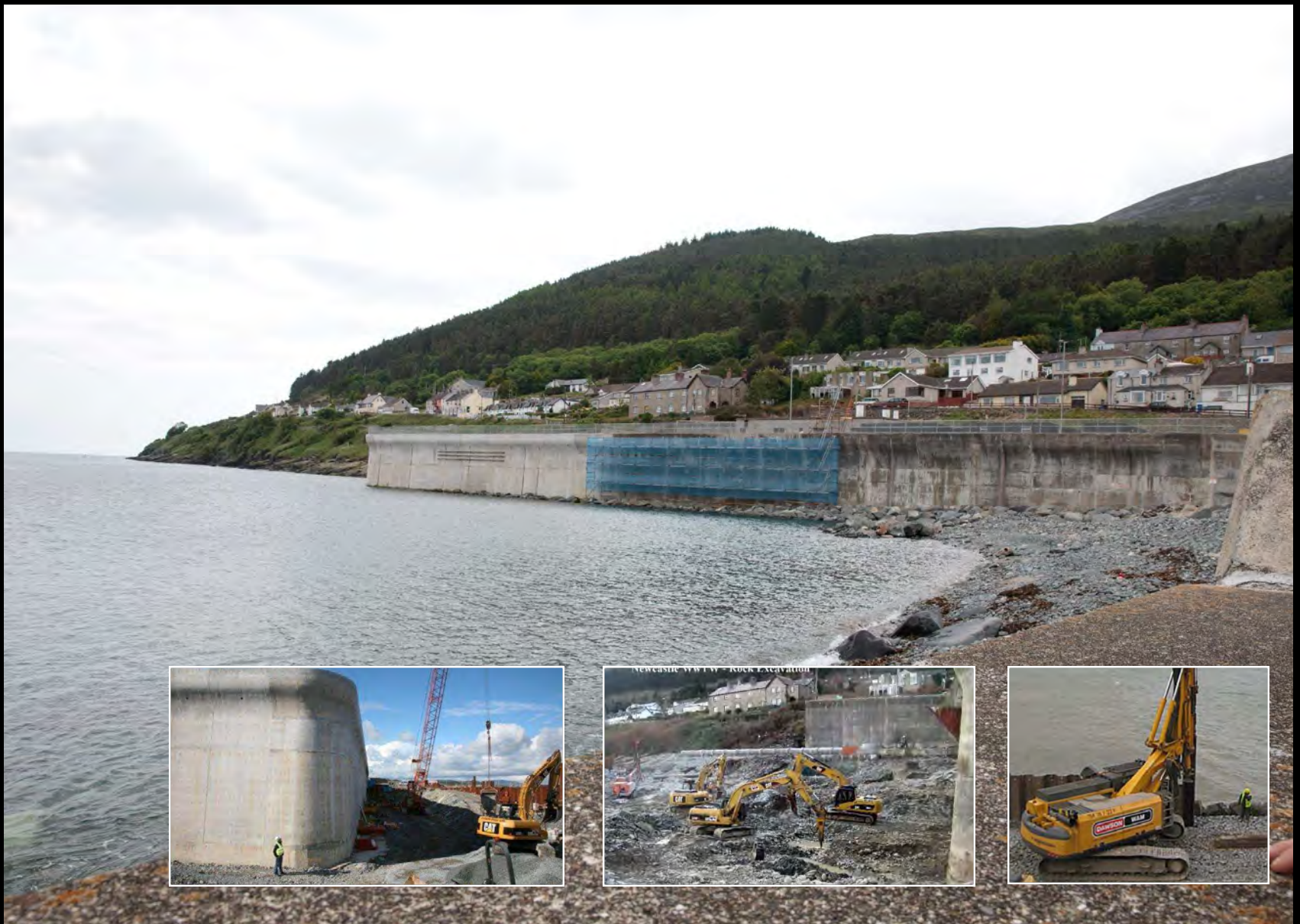
One shaft, fitted with a dividing wall, is a foul and storm pumping station capable of pumping 250 litres per second during storm conditions via 1800 meters of 500mm diameter pumping main constructed within the carriageway towards Warrenpoint wastewater treatment works. The second shaft is a storage tank connected to the pumping station. The combined capacity of the two tanks is more than 800 cubic metres during storm conditions, thus reducing the chances of flooding throughout the town.











## Newcastle Wastewater Treatment Works Extension

New £8m extension to Newcastle's Sewage Treatment Works





### **Aldergrove Trunk Main, Antrim for NI Water**

Design and installation of 3.7km of 600mm diameter foul sewer and some 80 nr. manholes.





## Castor Bay Strategic Trunk Main, NI Water

Installation of 350-700mm fresh water pipework and pumping stations.





## Moygashel Sewerage Improvement Scheme

Works included laying of 7.5km of 600mm diameter HPPE pipeline and construction of pumping station. Construction period: 10 months; contract budget around £2.7m.







### **Moortown Reservoir, Leeds for Yorkshire Water**

Installation of Cased CFA contiguous piled wall for an 8 million litre reservoir serving 27,400 properties across West Yorkshire.











## Marsden Reservoir Spillway Upgrade, Yorkshire Water

Installation of Cased CFA contiguous piled wall to expand and strengthen the existing spillway located in the heart of Marsden Moor.





## Thames Tideway Project, London

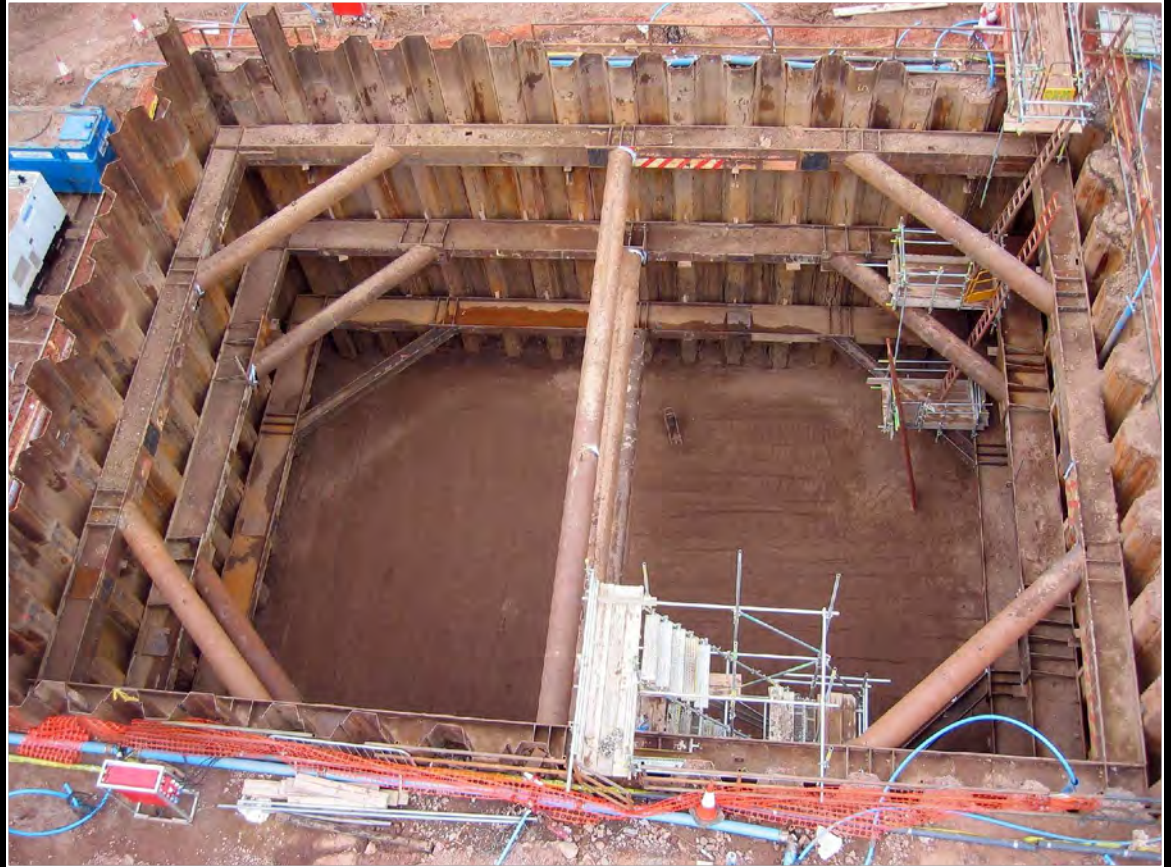
Secant piled rescue pit for a tunnel boring machine. Works were completed within the confines a narrow residential street with properties on both sides.





## **Strongford Waste Water Treatment Works**

Works included installation of 4 temporary works cofferdams and propping to enable deep construction. Construction period: 2 months; contract value around £0.45m.







### **Moneymore Flood Protection Scheme**

Works included construction of 750m of secant piled floodwall installed within 500mm of existing dwellings; associated civil engineering works, rock armour placement, re-instatement of neighbouring gardens. The scheme achieved an 'Excellent' - 93% CEEQUAL Award and a 'Silver' as part of the Considerate Constructors Scheme. An excellent example of sustainable construction. Construction period: 9 months; contract budget around £1.8m.





## Gloucester and Shipness Canal Diversion Scheme

Works included installation of 600 linear m. of sheet piles and associated tie bar and anchor system.

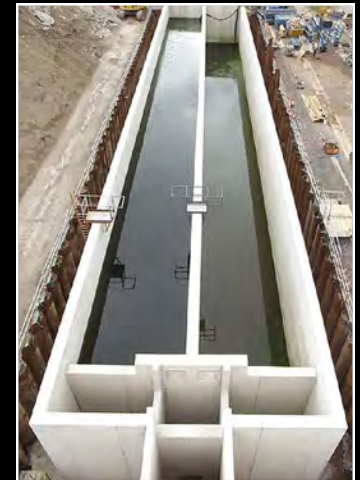
Construction period: 4 months; contract budget around £0.8m.





### **Christchurch STW, Wessex Water**

Sheet piled temporary cofferdams for upgraded and increased capacity sewage treatment works to allow passage of 50,000 m<sup>3</sup>/day.





Penn Mill Sewage Treatment Works, Yeovil







## **Abbey Mills Pumping Station East London for Thames Water**

Installation of temporary cofferdams to facilitate the construction of one of the 3 principle pumping stations in London.





### **Ashton Avenue Pumping Station, Bristol for Wessex Water**

A permanent sheet piled retaining wall, bracing and load bearing piles for the expansion and improvement of the existing storm water pumping station.





### **Abercorn East Quay Wall, Belfast Harbour**

Construction of new 200m long quayside in the heart of Belfast's Titanic Quarter. Works required the installation of 23m long AZ50 sheet piles and reclamation of 2000 m sq of land for new mixed use development.

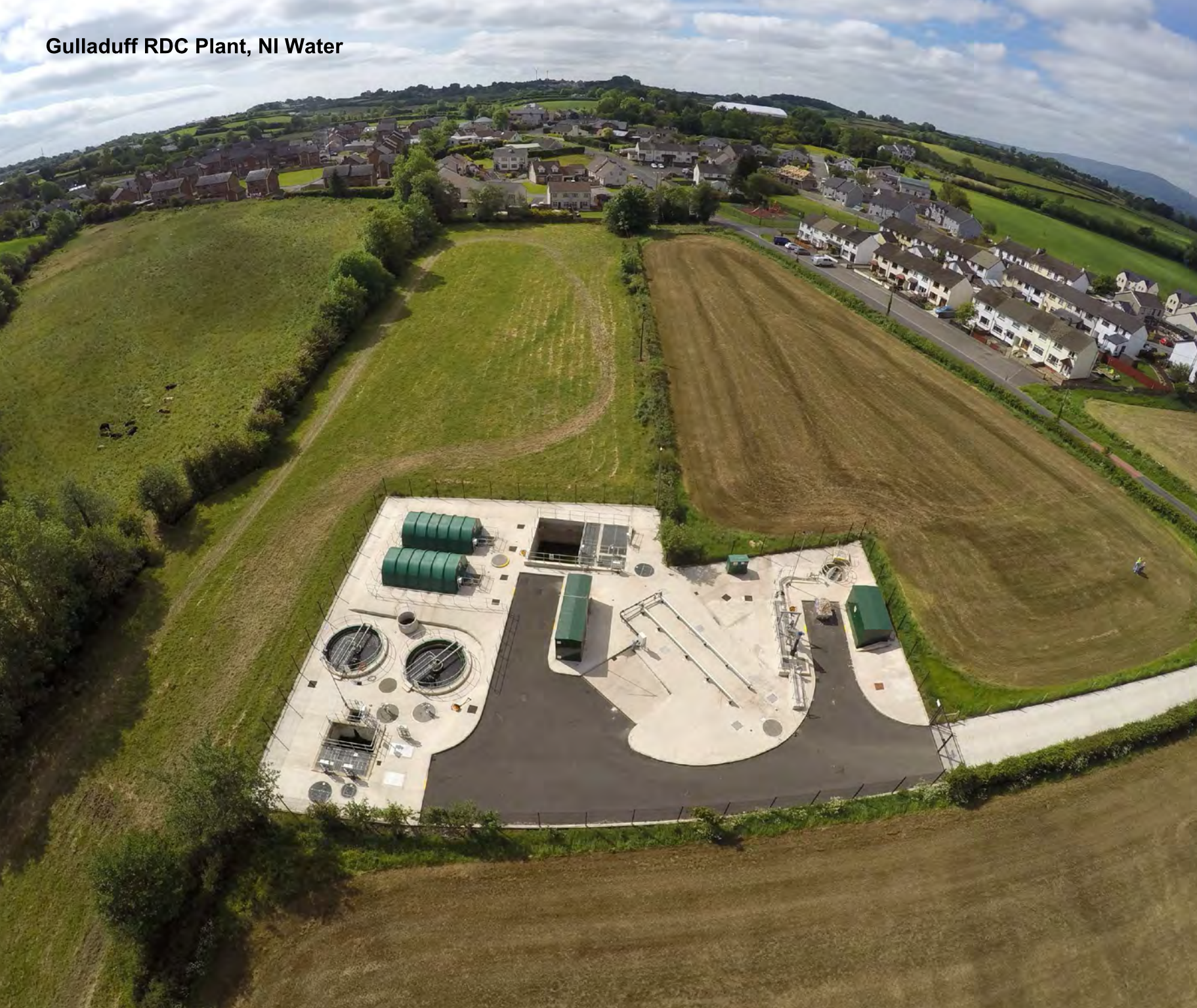




**New king post wall for Glamorganshire Canal, Pontypridd**



Gulladuff RDC Plant, NI Water







## Temporary bridges

Above: Cobbins Brook Flood Alleviation Scheme

Right: Lee Tunnel arisings disposal, Thames Estuary, Northfleet, Kent.

