
BELLSDYKE STORAGE TANK CARRONSIDE

This project involved the construction of the new 12.5m diam x 13m deep, on-line, storm water storage tank at Bellsdyke, adjacent to the River Carron which included a reinforced concrete flow control chamber built around the main incoming sewer and storm return pumps complete with MCC panel.

The work was carried out on a compact site, located 10m from the River Carron in an area know to have particularly poor ground conditions.

These difficult conditions were further compounded on encountering the remains of an old, disused pumping chamber which had been left on site following the first upgrade of the works. The extent of this structure was greater that was initially

assessed, due to the presence of a pile support structure below the disused well This resulted in the need to install a 6m deep well-point dewatering system to facilitate the safe removal of this piled structure.

Thereafter, the construction of the storm tank progressed using the caisson method, with the deepest sections being installed underwater. The precast concrete roof structure comprised two 13t support beams and fifteen roof panels, which were installed using a 160t mobile crane.

Installation of the return pumps, level controls, telemetry and distinct control panel in the existing control building, together with final commissioning & handover completed the works.



<u>CLIENT</u>	SCOTTISH WATER
<u>ENGINEER</u>	FABER MAUNSELL
<u>CONTRACT VALUE</u>	£1.03M
<u>DURATION OF WORKS</u>	AUGUST 2007 – JANUARY 2008 (23 WEEKS)