



Leak Sealing & Waterproofing • Concrete Repairs • Crack Injection • Pressure Pointing & Grouting • Structure Condition Surveys • Protective Coatings • Joint Sealing
Diamond Drilling & Sawing • Concrete Bursting & Crunching • Robotic Demolition

Scheme: **Walton le Dale WwTW – Humus Tank Wall Upgrade**

Problem: **Break up of concrete wall and disruption to scraper bridge operation**

Solution: **Replacement of top of wall using precast concrete coping units**

Client: **United Utilities Water**

Main Contractor: **Eric Wright Civil Engineering**

Following long term difficulties with scraper bridge operation being disrupted by degradation of concrete forming the outer tank wall, and a solution involving mechanically fixed steel plates not having provided a long term fix, Ram Services Limited developed a solution to permanently repair the tank walls and maintain the operation of the scraper bridge.

Use of in-house specialist structural repair techniques enabled the work to be completed to a high standard and in a short period of time, reducing downtime on the asset to a minimum.

Ram Services' site team dismantled the unsuccessful steel plates, and then rapidly removed the degraded top section of the wall using diamond wall sawing techniques. The concrete was taken down to a predetermined level in sections, stacked, and then lifted clear of the structure. The wall was then reinstated to its original section using specially manufactured precast concrete coping blocks, laid on high strength repair mortar and secured with resin grouted dowel bars.

Sections of the wall which could not be replaced were repaired with a highly durable resin based repair mortar.

Contract duration: **Three weeks**

Contract value: **£29,500.00**

