

CASE STUDY

Project: Clapham Wastewater Treatment Works - Civil Engineering Upgrade
Client: Bridges
Value: £326,000



Project Introduction

Coleman Construction & Utilities Limited delivered a detailed civil engineering package as part of the upgrade works at Clapham Wastewater Treatment Works, working in close coordination with Principal Contractor Bridges.

The works were carried out within an operational treatment facility, demanding careful sequencing, disciplined site control and close coordination with multiple stakeholders. Despite restricted access and programme pressures driven by regulatory requirements, the project was completed safely, on schedule and to a high standard.

Scope of Works

The civil engineering package delivered by Coleman Construction & Utilities included:

- Break-out and removal of existing access roads and embankments
- Construction of reinforced concrete and PCC retaining walls
- Installation of ducting and draw pit systems
- Installation of underground pipework and manholes
- Construction of RC base slabs, hardstandings and access roads

All works were planned and executed to maintain uninterrupted operation of the treatment works throughout the construction period.

Pipework and Manhole Installation

The project involved the installation of drainage and service infrastructure to support new assets and wider site requirements, including:

- 110mm and 160mm Osma drainage systems
- 32mm potable water supplies connected into existing mains
- Construction of an intercept chamber, including excavation, concrete works, manhole rings, core drilling and pipe connections

These activities were undertaken within confined working areas, requiring precise coordination and robust safety controls.

Ductwork Installation

A site-wide ducting network was installed using 150mm twin-wall ducting, with Cubis RapidStak systems utilised to form durable and accessible draw pits across the site.

The installed infrastructure provides long-term capacity for future electrical and control system installations as part of the wider treatment works upgrade.

Reinforced Concrete Works

Reinforced concrete works formed a key element of the project and included:

- Bases for package plant kiosks and tanks
- Hardstandings and footpaths to improve site access
- Construction of an RC retaining wall to stabilise the existing bank and create additional working space
- Formation of a delivery bund incorporating a containment hump and specialist chemical-resistant coating

All elements were delivered with a focus on durability, build quality and future maintenance requirements.

Challenges and Solutions

The principal challenges were limited space, restricted access and the need to coordinate activities alongside other trades within a tight programme.

These were successfully managed through detailed sequencing, forward planning of deliveries and close collaboration with Bridges and site stakeholders. The project was delivered with zero incidents, reflecting the effectiveness of the safety planning and site management approach.

Project Outcomes and Benefits

The Clapham WTW upgrade demonstrates Coleman Construction & Utilities Limited's ability to deliver technically demanding civil engineering works within operational wastewater environments.

Key outcomes included

- Completion within the agreed 18-week programme
- Strong and proactive collaboration with Bridges
- Clear communication and coordination throughout the works

A collaborative and non-confrontational approach was adopted throughout, supporting programme certainty and positive working relationships.

Health, safety and wellbeing remained central at all times, with a consistent focus on achieving zero harm. The completed works were delivered to a high, snag-free standard, reflecting the company's commitment to quality and professional delivery.