

CASE STUDY

Glenboig Main Street Pumping Station

Barratt Homes West – Lennox Gardens Development

Design: Aug 2024

Construction: April 2025



Scottish
Water
Horizons

At a glance

Challenges

- Limited site access
- Early construction required
- Protection of surrounding environment
- Coordination of multiple contractors
- Robust, integrated solution needed

Benefits

- Commissioned ahead of schedule
- Significant cost savings
- Seamless integration with development
- More efficient Scottish Water vesting

OVERVIEW

At Barratt Homes' Lennox Gardens development, the Glenboig Main Street Pumping Station was a critical enabler for more than 150 new homes.

From initial design through to commissioning and vesting with Scottish Water, we delivered the project end-to-end, ensuring a smooth, well-coordinated process with no surprises.

THE CHALLENGE

This was a complex site. The pumping station needed to fit within the development layout while protecting the surrounding environment.

Construction had to be completed ahead of wider infrastructure works, with limited access and close coordination alongside other site activities.

The solution needed to be technically robust, sustainable, and seamlessly integrated into the overall development.

OUR APPROACH

We led the project from day one, managing the civil, mechanical, and electrical design, coordinating directly with contractors, and navigating Scottish Water's approvals and vesting process.

Efficiency was key. We removed tanker bay drainage to reduce SUDS contamination risk, worked closely with the groundworks team, and used pre-approved design standards to accelerate approvals.





SMART TECHNOLOGY

The station was fitted with Xylem's Flygt Concertor system, the world's first intelligent pumping solution.

Self-cleaning and adaptive, it responds to site conditions, uses up to 70% less energy, reduces carbon emissions, and cuts call-outs by up to 80%.

The system also enables more efficient Scottish Water vesting.

OUTCOME AND BENEFITS

The Pumping Station was commissioned ahead of schedule and fully compliant with Sewers for Scotland 4. The project delivered:

- Cost savings by removing the need for welfare waste tankering
- A single point of contact for design, construction, and approvals
- Faster approvals through pre-approved designs and smart technology
- Lower operational costs and reduced environmental impact.

This project demonstrates how combining innovation, careful planning, and collaboration can overcome complex site challenges to deliver a sustainable, cost effective foundation for future communities.

