

Residence on Panorama Road

Client: Private Individual

Duration: 3 weeks

Background:

A residential coastal property was experiencing significant erosion due to scouring of the existing sheet pile sea wall, causing the garden to begin encroaching into the sea. To prevent further loss and protect the property. We were approached for advice and recommended a sheet piled solution constructed directly in front of the existing structure. The new solution was a 60m sheet piled wall installed with 6m length piles and included fibre-reinforced concrete backfill to provide long-term stability.

The new wall was designed to extend the life of the sea defence by an additional 50 years, ensuring continued protection against coastal erosion.

Project Detail:

Due to the coastal location, the works were governed by a Marine Management Organisation (MMO) licence, with a restricted construction window. Exceeding this window would have required a reapplication, risking delays and additional costs. Through careful planning and early coordination with the MMO and the client, we ensured compliance and met the required deadlines.

Tidal conditions posed a significant constraint, particularly for pile installation and concrete backfilling. Working from land rather than relying on marine-based equipment provided significant cost and time savings for the client. Tight access through private gardens required efficient plant selection and movement planning.

Machinery Used:

All plant and equipment used on this project came from our in-house fleet. We used our 14-tonne Movax to install the sheet piles and the same machine was repurposed to place the fibre-reinforced concrete for the backfill. This dual use of machinery helped streamline operations, eliminate the need for a second machine, and reduce the site footprint; critical for a project with such limited access.

Challenges & Solutions:

Although the MMO licence period ended up being extended beyond what was originally anticipated, we maintained consistent communication with the MMO and the client. This ensured that construction proceeded as planned once the final licence terms were in place. Our team were in regular communication with the client to ensure that there was minimal disruption to the other residential properties around the site, thus ensuring a good working relationship for the duration of the project.

By adapting our methodology to the access constraints, planning works around the tides, and making full use of our versatile in-house plant, we delivered a high-quality coastal defence solution efficiently and cost-effectively, on time, within budget and with minimal disruption.

Photographs:

