



Neptune Road Slipway

Tywyn

Method of Works

May 2025



Document Control Sheet

Document Title:	Method of Works
Document Author(s):	Rhydian Roberts
Project Ref / Title:	Neptune Road Slipway
Project Manager:	Rhydian Roberts

Revision History

Date	Version No.	Summary of Changes
	0.01	Initial Draft
06/05/2025	0.02	Confirmation that soft-start piling techniques

Reviews

Name	Title	Date	Version

© 2025-26 Gwynedd Council / YGC. All Rights Reserved.

Copyright in any or all of this documentation belongs to Gwynedd Council / YGC of Council Offices, Shirehall Street, Caernarfon, Gwynedd, LL55 1SH (the 'Owner') and may not be used, sold, transferred, copied or reproduced in whole or in part, in any manner of form or on any media to any person other than in accordance with the terms of the Owner's agreement or otherwise without the prior written consent of the Owner.



1.0 Introduction

This document has been prepared by Gwynedd Council as overseeing organisation for proposed improvement works to Neptune Road slipway at Tywyn (see figure 1 below). The existing slipway has suffered partial collapse due to washout of material as a result of lowering beach levels.

The proposed project involves constructing a sheet-piled cut-off wall in front of the slipway to prevent washout before reconstructing the slipway deck. The proposed works also involve extension of the slipway to meet existing beach levels, and also demolition and re-construction of the existing steps to the rear of the slipway. Drawings 12531-DE010_GA_01 and 12531-DE010_GA_02 have been submitted as part of the application.

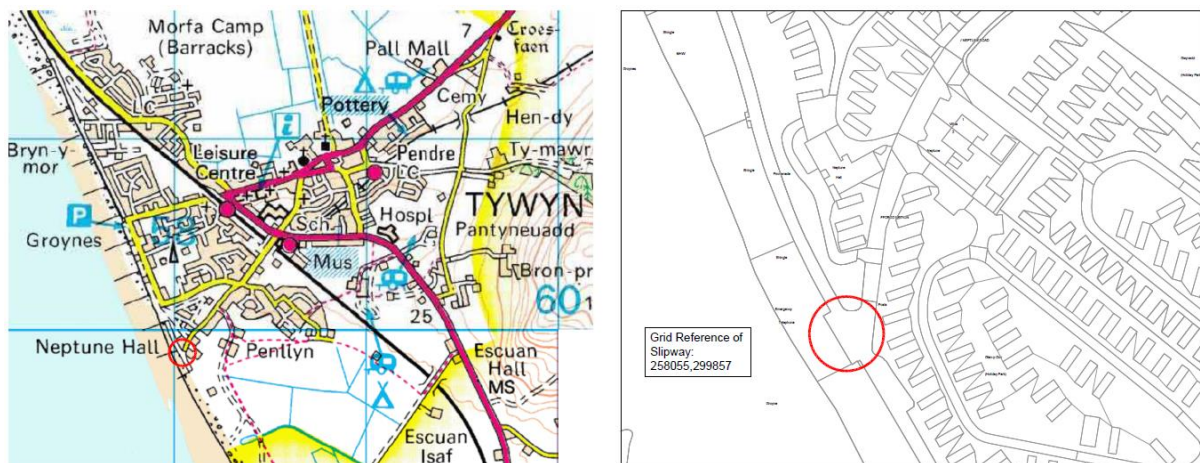


Figure 1: General location plan (approx 258055, 299857)

2.0 Method of Works

The works are likely to include the following activities and will be timed to avoid periods of high tide:

- Excavation in front of existing slipway to suitable formation level and set material aside for re-use;
- Break up and remove existing concrete steps at rear of structure using excavator and 5T dumper;
- Installation of sheet piles as shown in GA drawing (ref above) using excavator with piling hammer attachment. Soft-start procedures to be used for pile installation;
- Fixing of reinforcement through sheet piles into existing concrete wall – not applicable for lower end of the slipway where newly constructed wall proposed to extend structure;
- Erect formwork and cast in situ capping beam for new pile lines as shown in GA drawings – concrete to be pumped from promenade above;
- Remove formwork and backfill trench using previously excavated material;

- Break existing deck slabs into void beneath structure and use 6N granular fill to raise levels to underside of slab, working one bay at a time from top of structure;
- Fix reinforcement, erect formwork and pour concrete for replacement deck;
- At rear of structure excavate to suitable formation level for installation of new steps and set material aside for re-use;
- Erect formwork for new access steps and pump concrete from promenade above;
- Remove formwork and backfill trench using previously excavated material;

3.0 Access

Plant access to beach level from the direction of Neptune Road will be via the access slip at the southern end of the promenade and the around the seaward side of the two southern most groyne structures (see figure 2 below). Some temporary and local re-profiling of the shingle bank may be necessary to provide adequate access from the promenade and then down to beach level.



Figure 2: Proposed access route from Neptune Road towards beach level

3.0 Measures to reduce the risk of pollution

The following measures will be implemented to further reduce the risk of environmental damage during the proposed works:

- A Construction Environment Management Plan (CEMP) is to be prepared which will detail what measures will be in place to protect the surrounding environment. Location of adjacent protected sites shall be clearly highlighted.
- Works to be timed to avoid periods of high tide.
- Integrity of formwork to be inspected prior to pouring/pumping of concrete.
- All concrete use within works to include quick setting cement to reduce risk of washout and ensure all new concrete elements are set prior to incoming tides.
- Biodegradable lubricant and hydraulic oil to be used in plant machinery where possible. Biodegradable oils are less toxic than most synthetic oil but should still be stored to the same standards as other oils and prevented from entering the water environment.
- Pollution spill kits to be readily available on site within plant/machinery at all times, with staff suitably trained in how to deploy.
- Contractor to have emergency incident response procedure in place in the case of a spillage. Response to include accurate procedure to swiftly remove any contaminated sand/material from site in the case of accidental spillage.
- Contractor to adhere to pollution prevention best practice guidelines, including;
 - GGP5: Works and maintenance in or near water.