



**Barmouth Beach
Management
Construction Environment
Management Plan (CEMP)**



Document Control Sheet

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1.0 Introduction

This Construction Environmental Management Plan (CEMP) relates to the proposed collection, transportation and deposition of wind-blown sand along the Barmouth frontage. This CEMP provides a framework for the management of environmental issues on the project to ensure legal, contractual, and procedural requirements are met. The CEMP has been prepared in accordance with condition 3.19 of the Marine Licence issued for the works (DEML2375).

This site-specific CEMP has been developed to avoid, minimise and/or mitigate any construction effects on the environment, mainly impact upon the Pen Llyn a'r Sarnau SAC which has its landward boundary at Mean Low Water level.

This CEMP contains, or makes reference to, sufficient information to identify how the proposed works will be managed from an environmental perspective. It defines the project specific environmental risks and the measures applied to control these risks to an acceptable level.

The measures describe within this CEMP will form part of the scope of works for the appointed contractor. Therefore the contractor is responsible for ensuring that all measures described are in place throughout the duration of the works and are adequately communicated with the workforce.

2.0 Project Description

The proposed works involve management of wind-blown sand along the foreshore of Barmouth, Gwynedd. The proposed works are located at the beach and promenade area of Barmouth (NGR: SH 61238 15619, see figure 1 below).

Sand will mainly be collected from the area directly in front of the sea wall of the main beach but any wind-blown sand deposited on the promenade and also within the car park area to the rear of the promenade may also be collected. Removal of sand to take place using excavator and dumper to transport and deposit. Access on to the foreshore for collection will be via designated slipways (see figure 2). Sand will be transported to the North Prom disposal site via the highway, using 20T-30T dumpers. The sand will initially be deposited on the promenade here, and an excavator will be positioned to collect sand from the stockpile and deposit onto the beach over the sea wall (see figure 3). This removes the need for any plant to be positioned on the foreshore and also the need to access the beach via the slipway at the north end. The excavator at the north end of the prom will spread the deposited sand across the beach (north and south) within this designated area, to prevent the creation of a single large stockpile.

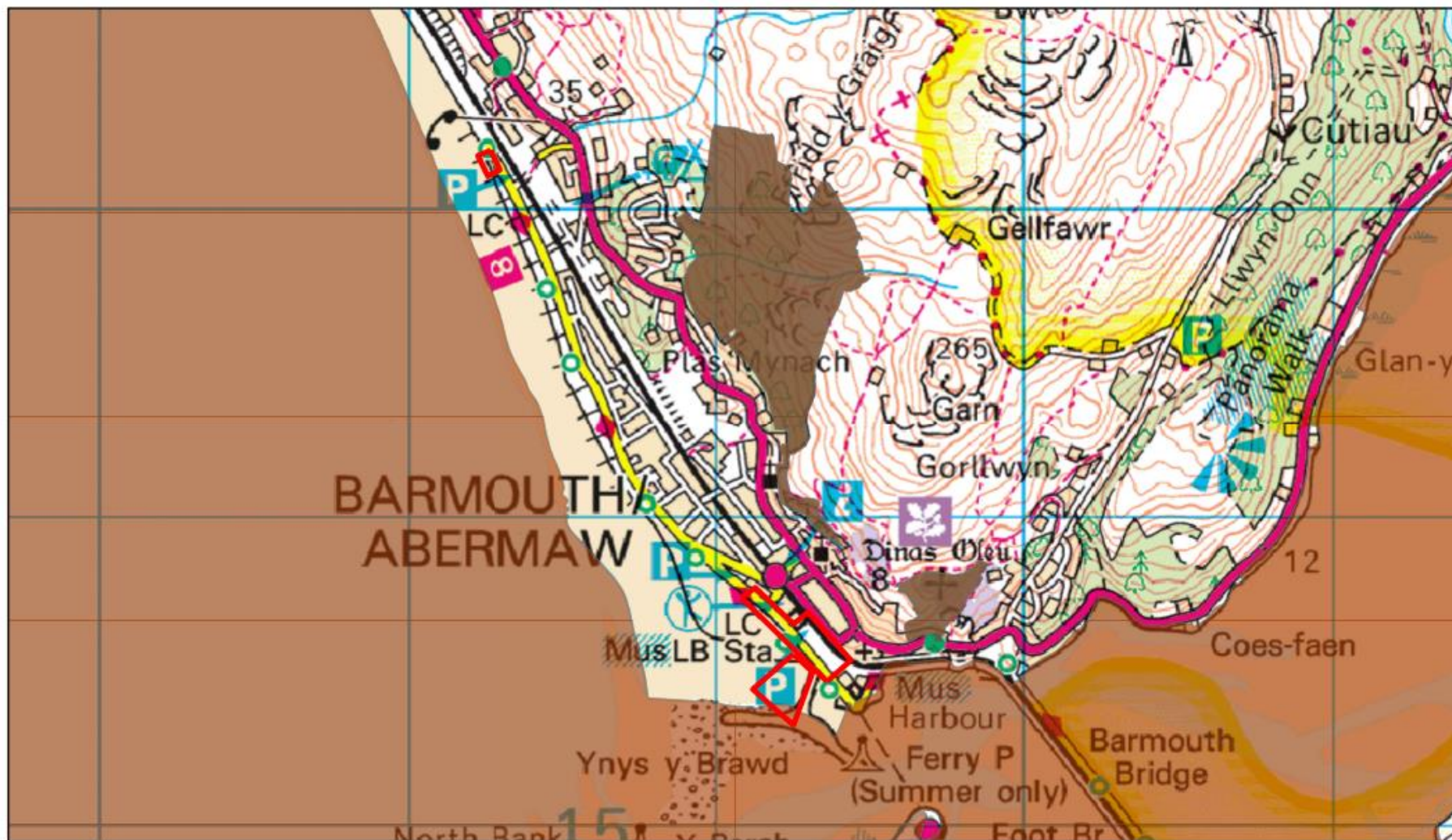


Figure 1: Location of proposed works (outlined red) in relation to internationally protected sites (SAC - brown shading)

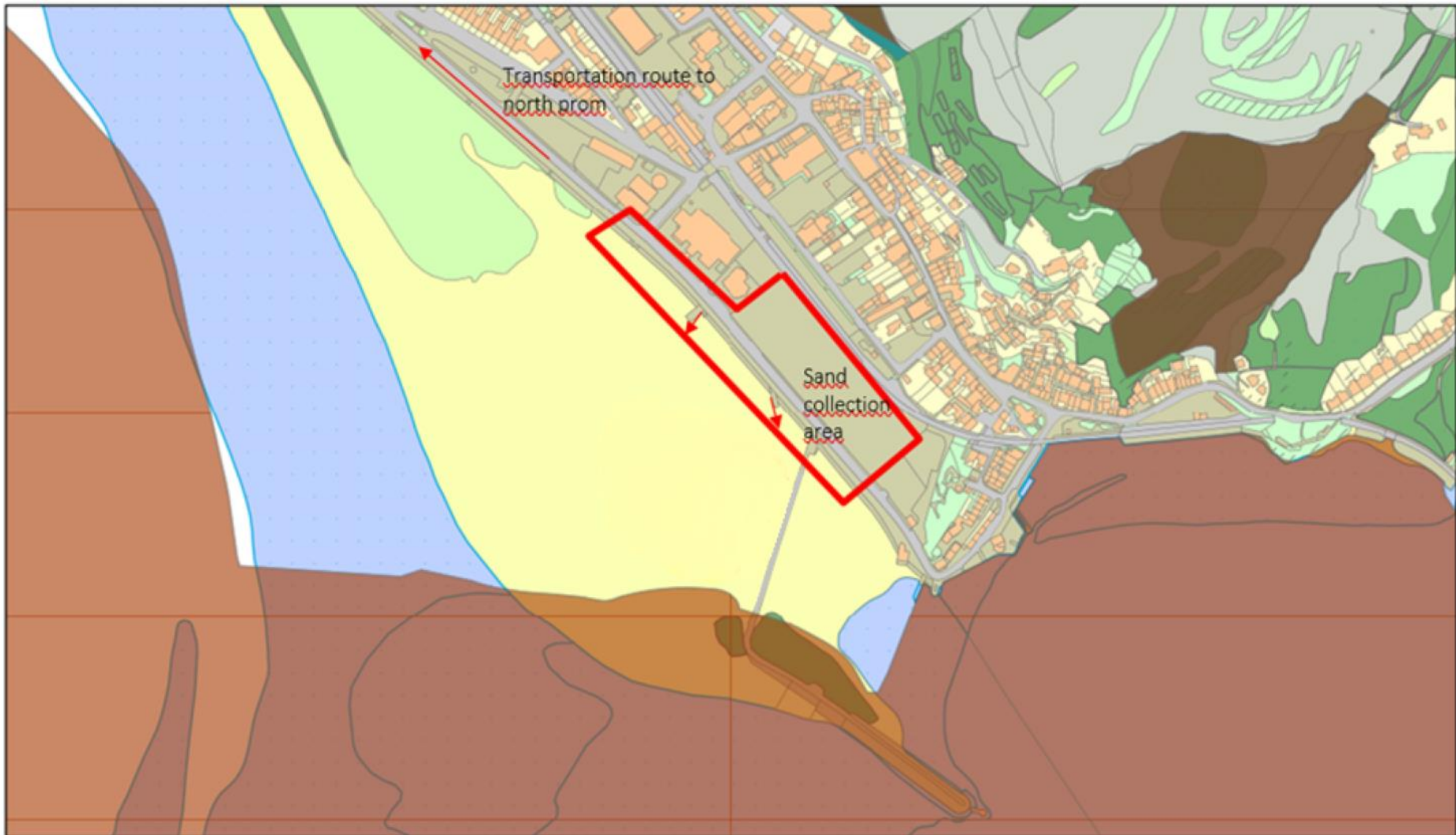


Figure 2: Location of sand collection and deposition area at main beach towards southern end of promenade. Red arrows show slipway access onto foreshore (Internationally protected sites, SAC shaded brown).

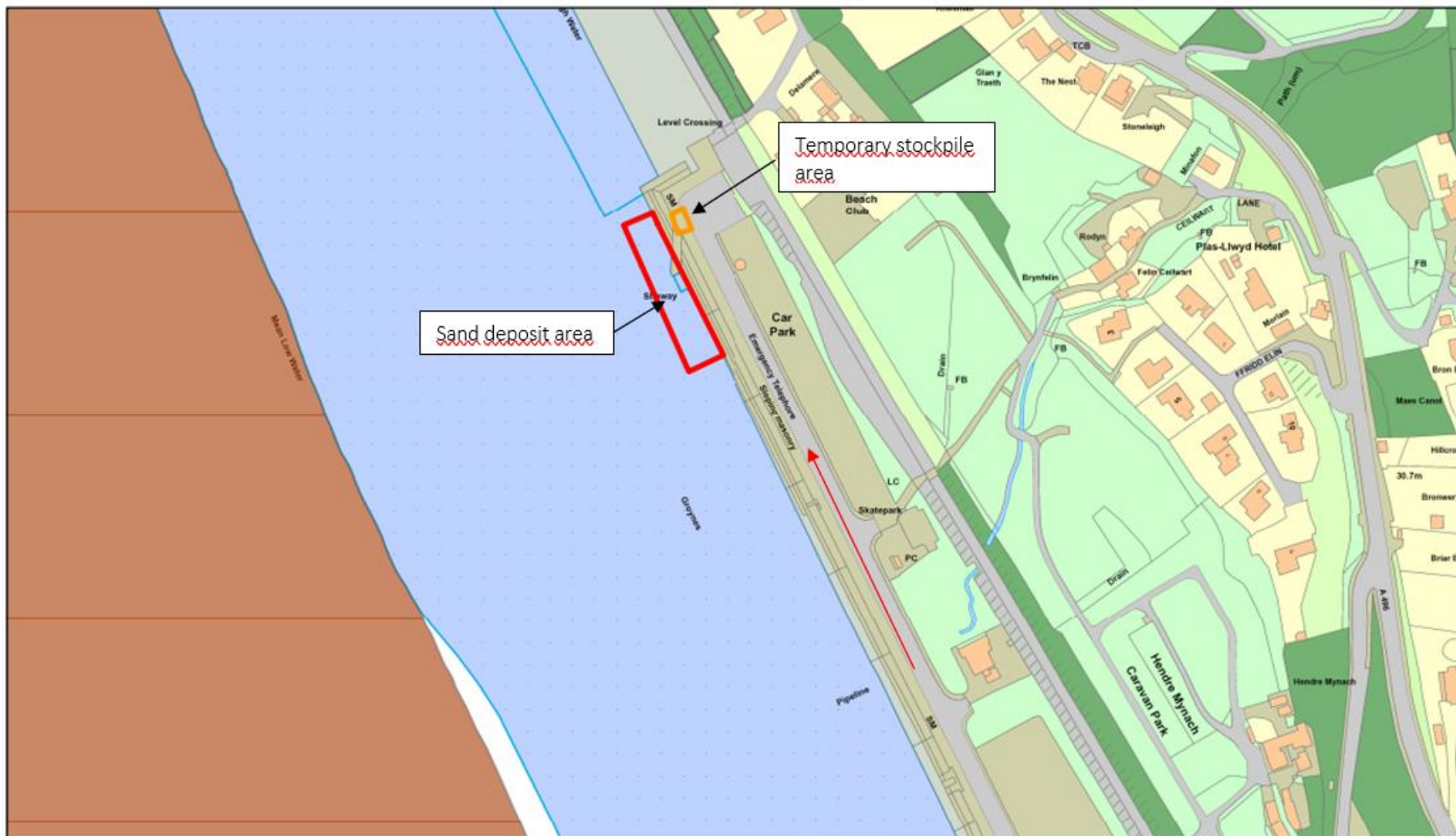


Figure 3: Location of sand deposition area at north end of prom (outlined red) in relation to Pen Llyn a'r Sarnau SAC (brown shading). Red arrows show access routes.

3.0 Potential Impacts of Proposed Works

The following unmitigated impacts upon features of the Penllyn a'r Sarnau SAC were identified within the HRA prepared for the proposed works, and the purpose of the CEMP is to specify measures reduce the risk of these impacts occurring during the works:

- It is possible that the machinery used for the proposed works on site could be a source of pollution, which could directly affect habitats and species associated with the site. Such pollution incidents would cause localised pollution of the immediate habitat and water environment, and depending on the scale, flows and tides at the time, could spread both upstream and downstream.
- The movement and deposit of sand could also be a source of pollution, should the material be contaminated prior to being moved, in particular any sand removed from areas of the promenade or the car park to the rear of the promenade. Concentrations of polluting material could be released on the promenade in the event of a one-off accident or spillage.

4.0 Mitigation Measures

The following measures shall be implemented during the works in order to reduce the risk of impacts described above occurring. The appointed contractor has responsibility for ensuring that all measures are in place prior to commencement of works and are maintained throughout the duration of the works.

- 1) As sand is collected for removal a visual check for contaminants and/or litter should be undertaken prior to its transport for disposal at the northern promenade – this is particularly important for sand collected from the promenade or the car park to the rear of the promenade.
 - Any sand material believed to be contaminated should be stockpiled within the Council car park to the rear of the promenade and the client notified at the earliest opportunity for further instruction;
 - Any litter identified should be put to one side and discarded.
- 2) Pollution spill kits to be readily available on site within plant/machinery at all times, with staff suitably trained in how to deploy.
- 3) Contractor to adhere to emergency incident response procedure described in section 5 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.
- 4) Biodegradable lubricant and hydraulic oil to be used in plant machinery. 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.

- 5) Materials to be moved directly from collection area to deposit area. No temporary storage shall take place within the foreshore.
- 6) Access to and along the beach area to be via the main slipways and along a designated pathway to keep potential habitat disturbance to a minimum.
- 7) There shall be strictly no access to mid – to lower shore where trafficking of vehicles may directly impact sensitive marine habitats.

5.0 Incident Management

The approach to a pollution incident is to be: Stop – Contain – Report

Stop

Stop all works pertaining to the incident, for example, to prevent further spillage turning of the valves/taps, righting the drum, stopping/restrict the flow at the source etc

Contain

Spill kits are to be provided on site, however further measures such as using sand or earth, absorbent pads, booms or skimmers or digging trenches etc. Use a spill kit to mop up the spillage. Contaminated material must be disposed of as hazardous waste.

Report

All pollution incidents are to be reported to the Project Manager will take the appropriate administrative action, which will include notifying Natural Resources Wales (0300 065 3000)