



Method Statement Template

This template is intended to be used in conjunction with a Band 1 Marine Licence application. Please complete each section below following the guidance provided (max 500 words per section). For any queries relating to this template please contact: marinelicensing@cyfoethnaturiolcymru.gov.uk

1. Summary

Please provide a brief summary of the application including location of the works (coordinates - lat/long, decimal degrees). For activities that cover a large area please provide coordinates of the approximate extent of works.

Ground investigation works to inform the design of the Aberaeron Harbour coastal protection scheme. Investigations that are licensable marine activities will involve digging trial pits on South Beach to remove samples of beach material (sand and shingle) for sediment analysis.

The investigation works will take place at low tide (in the dry) along the Aberaeron South Beach up to and including the beach area around the South Pier.

Trial pits on the upper, mid and lower shore will be taken at 15 locations along the beach.

The OS coordinates for the trial pit locations on Aberaeron South Beach are:

Trial pit number	Ordnance Survey National Grid Reference
1	SN45392, 62938
2	SN45384, 62944
3	SN45373, 62949
4	SN45365, 62866
5	SN45355, 62872
6	SN45344, 62878
7	SN45287, 62759
8	SN45285, 62772
9	SN45275, 62779
10	SN45211, 62662
11	SN45207, 62671
12	SN45201, 62678
13	SN45163, 62583
14	SN45156, 62592
15	SN45148, 62598

Note: Co-ordinates are accurate to the nearest 3m. Refer to plan provided separately.

2. Scope of works

Please provide a full description of all proposed works including:

- Sequence of works (mobilisation, marine works, site remediation (if required))
- Estimated timing of works (duration, working hours, day/night, plus contingency)
- Plant, machinery or vessel required
- Estimated quantities (removals, deposits, construction materials)

Mobilisation and Remediation

The investigation works will take place as soon as the marine licence is received and following appointment of a suitable specialist ground investigation contractor. Currently tenders are being sought for these works.

Access to the site will be from the South Beach public car park. From here it is possible to simply drive all-terrain wheeled vehicles onto the beach. Whilst it is not anticipated that preparation of an access route is required, a JCB will be provided in the contract. This will ensure that any obstacles present (on the shingle back below the car park) created by winter weather i.e. logs, branches or mounds of shingle can be pushed aside to create a safe, clear path.

Access along the beach is interrupted by the existing timber groynes. To provide access over the groyne it is proposed to provide temporary ramps formed of the beach shingle up and over the timber groynes. These ramps will be around 1.5m high. On completion of the investigations the shingle for the ramps will be moved and reintegrated with the shingle bank. Shingle ramps will not remain in place over a tidal cycle i.e. they will be created and returned to the shingle bank while the tide is out.

Timings

The marine licence application requests start date of 7 January 2019 and an end date of 29 March 2019. Works are not expected to take this long. The investigations will take place during low tides and in daylight hours and as a result will be dispersed over a period of around 4 weeks. A further contingency of 2 months would be needed to suit tides, available light and prevailing bad weather. It is anticipated that the investigations would take place in January or February.

Plant and machinery

A JCB would be used to obtain bulk samples of the beach shingle and sand up to 1.5m below the beach surface which would be put into 20kg bags and then taken away for tests such as petrographic tests, density or particle size analysis.

The investigations will use wheeled or tracked plant brought in by road. No vessels will be used, since all the investigations occur above low water and 'in the dry'.

Quantities

It is anticipated that 15 bag samples would be taken – an upper, mid and lower shore sample from 15no. locations along South Beach. This would equate to around 300kgs or <0.2m³ of materials.

A JCB will be used for the trial pits and taking samples. The JCB is a large wheeled vehicle which can travel on the public roads as well as the beach. A picture of a JCB is shown below:



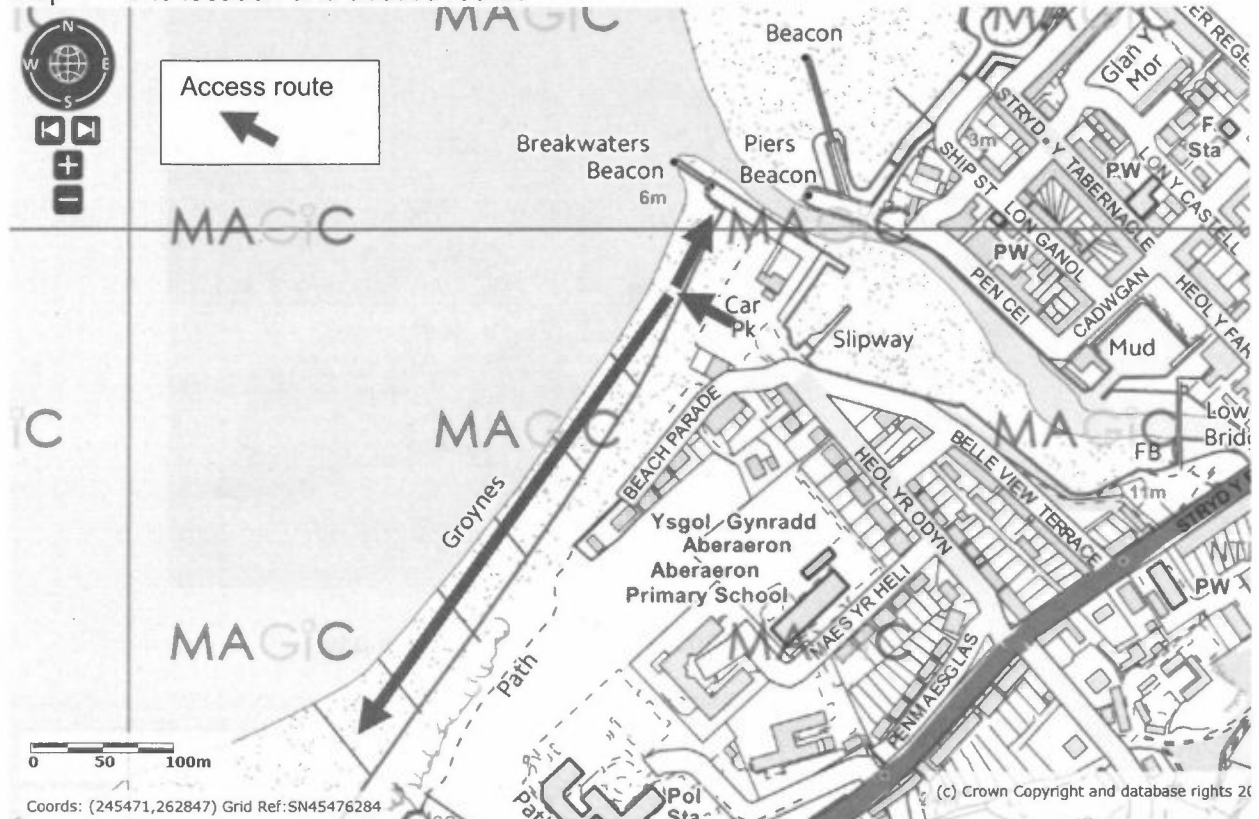
JCB with backhoe and shovel for digging trial pits.

3. Access and working areas

Please provide details of access to the site and working areas. This should include:

- Attached map of the access/egress route and working areas (annotated aerial image and/or OS map)
- Predicted plant/vehicle movements
- Storage areas for plant, equipment and materials (if required)
- Risks to navigation

Map 1 – Site location and access routes



The storage for plant, equipment and materials will be above the high water mark in the South Beach car park.

Navigation – risk to navigation are negligible as works will be carried out in the dry and all plant removed before the incoming tide. Note the works take place outside the summer season. In the unlikely event that plant becomes trapped and has to be abandoned, the harbourmaster will be alerted, so that a notice to mariners can be raised. Depending on location and if deemed necessary, requirements to mark or light the obstacle until it is removed can be agreed with the harbourmaster. Conditions of contract will be placed to ensure that the contractor is responsible for the removal of any obstructions caused by abandoned plant.

4. Environmental mitigation

Please list appropriate mitigation measures to minimise impacts on the marine environment these may include:

- *Pollution prevention and control procedure (guidance available at: <http://www.netregs.org.uk/media/1304/gpp-5-works-and-maintenance-in-or-near-water.pdf>)*
- *Spill response kits*
- *Minimise plant traffic*
- *Designated access and egress routes*
- *Storage of materials (fuel, chemicals, construction waste)*
- *Biosecurity (guidance available at <http://www.snh.gov.uk/docs/A1294630.pdf>)*

Note: To assist you, the following mitigation statements will be used as conditions within the licence. By signing this method statement you will be agreeing to adhere to these restrictions. If you are unable to do this, the application will not qualify as Band 1.

- ✓ All equipment, temporary structures, access tracks, waste and/or debris associated with the works will be removed on completion of the works.
- ✓ Bunding, storage facilities and spill kits will be employed to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment.
- ✓ Plant, vehicles and machinery will not be refuelled on the foreshore.
- ✓ Coatings and treatments will be suitable for use in the marine environment and are used in accordance with best environmental practice.
- ✓ All equipment, materials, machinery and PPE used will be in a clean condition prior to their arrival on site, and upon removal from site, to minimise risk of introducing non-native species into the marine environment.
- ✓ In the event of removal of any sensitive species or habitat designated by NRW under Schedule 7 of the Environment (Wales) Act 2016, no further removals will occur at that location or within 20m of that location.

Please list your bespoke mitigations here:

- ✓ The conditions of contract will require that the contractor has arrangements for the emergency removal of plant and equipment which may need to be abandoned due to tides.
- ✓ Shingle ramps will not remain in place over a tidal cycle i.e. they will be created and returned to the shingle bank while the tide is out.

5. Additional Information

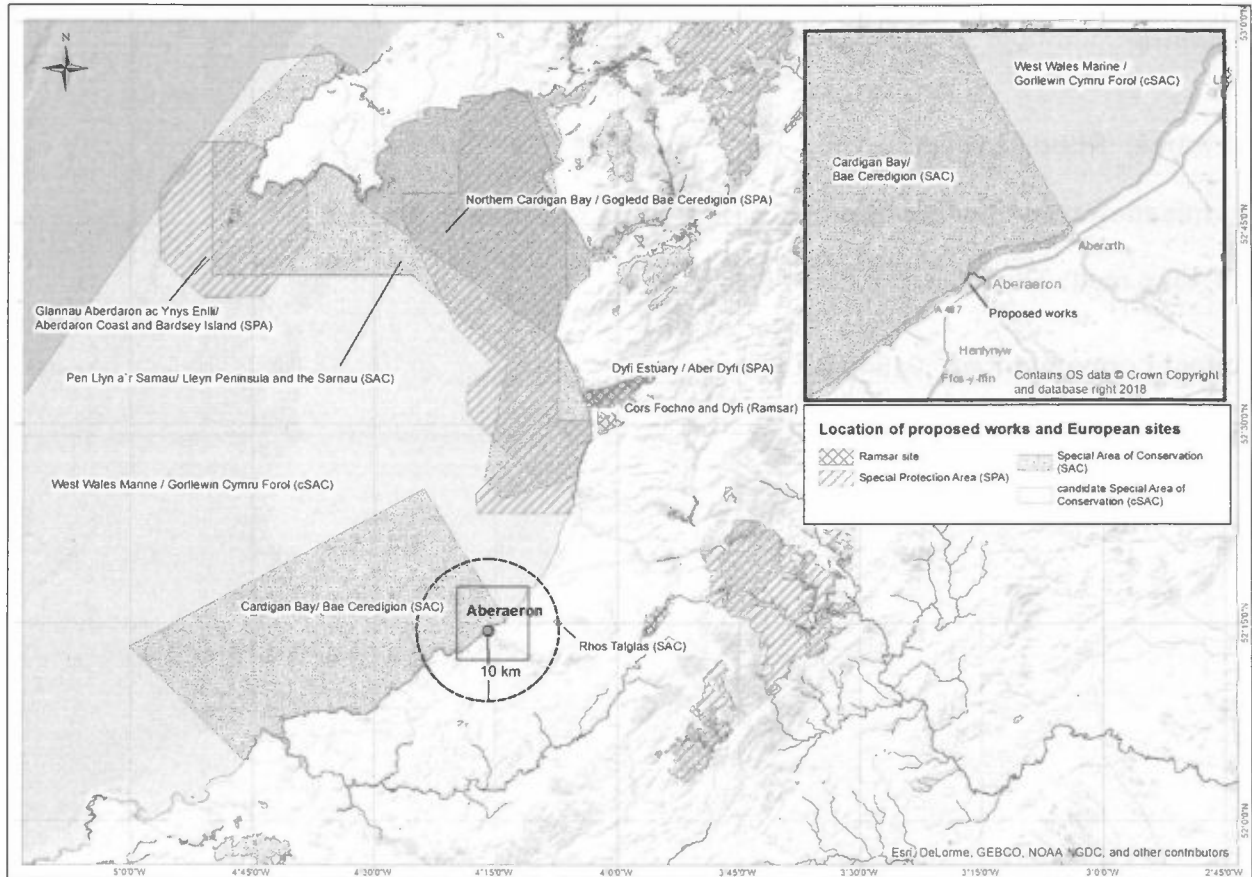
Please list any additional information that may help with the application:

- *Consents/permissions required*
- *List of plans or drawings attached to method statement*
- *Emergency procedures*
- *Contact details*

The following plans are provided separately in addition to the application form and method statement:

- *Map 2 - Aberaeron South Beach Location*
- *Map 3 - Aberaeron trial pit locations on the beach*

Map 4 - Locations of Environmental Sensitivity



The contact details will be as shown for the Customer in Section 6.

The contact details for the contractor – are to be confirmed, pending award of contract.

6. Customer details

Signature:



Full name: Rhodri Llwyd

Organisation name (where appropriate): Ceredigion County Council

Contact e mail: Rhodri.Llwyd@ceredigion.gov.uk

Contact phone number: 01545 570881