Contract Opportunity:

Modelling Farm Hydrological Resilience

Background

1 The loss of wetland landscapes has reduced ecological resilience and biodiversity in Dumfries and Galloway. It is generally unknown where wetlands previously existed and how they can be bought back under many competing objectives.

2 Wetland restoration can be worked towards by identifying where wetlands may have previously existed in landscapes and through development of a hydrological understanding of landholdings and landscapes to improve hydrological resilience and provide local and catchment-scale benefits.

The Crichton Carbon Centre

3 The Crichton Carbon Centre (CCC) was established as a charity in 2007 (Scottish Charity No SC038915) with the aim of restoring nature, keeping carbon where it belongs and inspire action. The CCC is currently active in facilitating peatland restoration and delivering training and education within the region.

4 The CCC has spent the last 13 years designing and delivering peatland restoration projects and are keen to expand the scope of peatland restoration by considering wider wetland habitats in the region. The CCC also delivers peatland restoration training to contractors and creates educational resources for schools, as well as being involved in other projects such as the Flux Tower at Rack's Moss and the Solway Coast and Marine Project – Landscape Connections (SCAMP).

5 Using funding from SCAMP, we are now able to approach wetland landscapes more widely and build and understanding of hydrological at the farm scale.

Contract Opportunity

6 We are now seeking ONE contractor to model the hydrology of a coastal farm in Dumfries and Galloway.

7 We require a farm to be hydrologically modelled for different climate and flood scenarios, identifying nutrient and flow pathways and the impact of the climate scenarios on these.

8 We then require different hydrological interventions e.g. pond creation, de-culverting, stream renaturalisation, peatland restoration, woodland creation etc. to be built into the model.

9 We then require the model to be re-run using the different hydrological interventions and different climate scenarios.

10 The maximum contract value will be £16,500 and includes mileage (at 55p/mile), any other costs incurred, and VAT.

11 Timescale: The ambition is that contractors will be in post by mid October and the work will run to 15/12/26.

12 The output of the contract will be a short and visual report discussing the modelling outcomes, the implications of the interventions and different climate scenarios on the farms hydrological resilience, links to natural capital and productivity, and suggestions on the most effective intervention(s) for these functions.

13 The report will also contain a methodology on how the model was created and justify the choices made when generating the model i.e. model choice, data choice, climate scenario choice etc.

Expressions of Interest

14 Expressions of Interest are sought to undertake this work that will support our SCAMP work in Dumfries and Galloway. We aim to award one contract of a maximum of £16,500.

15 Expressions of Interest should include:

- A copy of your CV outlining your hydrological modelling skills and experience and similar work completed to date.
- An outline of your initial thoughts on the key approach and work you'd undertake during the contract, and how you would deliver these – approx. 3 paragraphs is sufficient.
- An indication of your timeline and tasks in relation to the £16,500 contract value.

16 Expressions of Interest must be submitted to info@carboncentre.org by 9am on 02/10/2026.

Contract Administration

17 The contract will be overseen and managed by the Crichton Carbon Centre.

18 Payment will be made on completion of the contract but interim invoices can be scheduled if requested.

19 Timeline:

- Award Contract + Contract kick off meeting: October 2026.
- Contract Completion: By 20/12/2026

20 Any queries about the contract or making an expression of interest, please contact info@carboncentre.org