

FRAMEWORK AGREEMENT SCHEDULE 4

ORDER FORM/ WORK PACKAGE ORDER

FROM

| | |
|---------------------|--|
| Authority | Secretary of State for Environment, Food and Rural Affairs |
| Address | Defra Group Commercial 3 rd Floor, Mallard House 1-2 Peasholme Green York YO1 7PX |
| Contact Ref: | Phone: [REDACTED] Email: [REDACTED] |
| Order Number | Ref: ecm_57002 |
| Order Date | 09 December 2019 |

TO

| | |
|--------------------------|---|
| Contractor | Fera Science Ltd |
| For attention of: | Name: [REDACTED] Phone: [REDACTED] E-mail: [REDACTED] |
| Address | Sand Hutton York North Yorkshire YO41 1LZ |

1. SERVICES REQUIREMENTS

(1.1) Services and deliverables required:

1. Background

Agri-environment schemes (AES) are Defra/Natural England's biggest lever for delivering environmental policy in the farmed environment. They are designed to address a range of environmental objectives, including biodiversity, soils and climate change. Given the extensive evidence base demonstrating how organic farming contributes to these objectives, AES (both the current Countryside Stewardship (CS) scheme and the legacy Environmental Stewardship (ES) scheme), include support for conversion to – and maintenance of - Organic farming systems, as allowed under Article 29 of the Rural Development Regulation.

Approximately £3billion is being invested in agri-environment schemes through the 2014-2020 Rural Development Programme for England (RDPE). Of this, around £900m is allocated to the CS Scheme, within which approximately £12m is specifically allocated to supporting organic farming. The remaining £2.1 billion of the RDPE budget is allocated to legacy schemes such as ES.

This monitoring project will focus on the outcomes from the organic land management options in CS. The outputs will also be relevant to the development of the new Environmental Land management Scheme.

The specific contribution of Organic Management & Conversion options in AES has yet to be systematically monitored and evaluated in England at a national scale to determine the environmental impact of organic management under agri-environment schemes.

We need to be able to assess the effectiveness of AES support for organic farming to understand if the environmental impact achieved is consistent with that which would be expected from an analysis of the existing evidence base. A previous scoping study project (Carey *et al.* awaiting publication, available on request) reviewed the many potential environmental impacts of organic farming (based on the published evidence base) and considered alternative monitoring techniques to identify the actual impacts achieved through support for Organic Management & Conversion. We now wish to implement elements of that proposed monitoring and test some of the methodologies in the field.

2. Objectives

To carry out a monitoring and evaluation project to assess the environmental impacts of organic farming on soils, water quality and landscape, when supported by the Organic Management options in the Countryside Stewardship scheme.

We would like contractors to collect data to investigate the following research questions:

1. Do soil properties differ between organic and conventional farms and if so, what are the implications of these differences for productivity and environmental outcomes?
2. Is there a difference in soil erosion on organic and conventional farms?
3. How does soil biota compare on organic and conventional farms? What are the implications of any differences for productivity and environmental outcomes?
4. Does water quality differ on organic and conventional farms?
5. Is there a difference in landscape character between organic and conventional farms?

3. Scope and requirements of contract

This contract will be for monitoring and evaluation of CS organic management. The proposed methodology should optimise allocation of monitoring resources and generate robust conclusions.

The contract will focus on the organic management options which provide continuing support for land already converted to organic management. The organic management options can be compared to conventionally managed land of the same type to provide a counterfactual. There are 6 organic land management options in CS for different land types:

OT1 Organic land management - improved permanent grassland

OT2 Organic land management - unimproved permanent grassland

OT3 Organic land management - rotational land

OT4 Organic land management - horticulture

OT5 Organic land management - top fruit

OT6 Organic land management - enclosed rough grazing

Of these options, the first three (OT1, OT2 and OT3) have far greater uptake and will therefore be the focus of this study, as the sample population sizes for OT4, OT5 and OT6 are rather small and may not yield statistically robust results.

The table below shows uptake of the 6 options in agreements starting in 2016 and 2017 (source, RPA uptake data extracted Feb 2018):

| Option | Mid Tier | | | Higher Tier | | |
|--|--------------------------|--------------------------|-------------|--------------------------|--------------------------|-------------|
| | no. live agreements 2016 | no. live agreements 2017 | 2016 + 2017 | no. live agreements 2016 | no. live agreements 2017 | 2016 + 2017 |
| OT1 - Organic land management - improved permanent grassland | 117 | 181 | 298 | 14 | 25 | 39 |
| OT2 - Organic Land Management - unimproved permanent grassland | 45 | 64 | 109 | 9 | 29 | 38 |
| OT3 - Organic Land Management - rotational land | 106 | 142 | 248 | 8 | 23 | 31 |
| OT4 - Organic Land Management - Horticulture | 10 | 11 | 21 | | 2 | 2 |
| OT5 - Organic Land Management - Top Fruit | 5 | 7 | 12 | 1 | 2 | 3 |
| OT6 - Organic Land Management - Enclosed Rough Grazing | | 2 | 2 | | | 0 |
| Total | 283 | 407 | 690 | 32 | 81 | 113 |

These 2016 and 2017 agreements will form the target population for this project. Jan 2016 was the first start date for new CS agreements so these are the CS organic management agreements which have had most time for management to take effect.

To meet GDPR requirements it is intended that these will be sites in conventional CS but with areas of comparable land use type which are not under any CS management option. Counterfactuals will need to be matched to their organic counterparts as far as possible in terms of the factors identified below.

- Geographical region (e.g. National Character Area or Agricultural Landscape Type)

- Land use type (Improved permanent grassland, unimproved permanent grassland, rotational land)
- Farm enterprise type
- Approximate farm size (small, medium, large, definitions to be agreed)
- Any other factors the contractor identifies as significant (to be justified in the tender)
- Length of time the farm has been organic

The tender must specify the sampling strategy which should include farms with each of the options OT1, OT2 and OT3. Counterfactual farms should also be sampled for each option, i.e. farms with improved permanent grassland, with unimproved permanent grassland, and with rotational land. A total of 30 parcels are to be surveyed.

The contract will focus on assessing the impact on soils, water quality and landscape, rather than the biodiversity elements. The scoping study (Carey *et al.*) identified that the methods used to measure biodiversity elements in past agri-environment monitoring (especially Project LM0458 where baseline condition of CS features was measured) could be applied to the monitoring of the organic options quite easily, but the application of methods for measuring soil organic matter and erosion, water quality, landscape character and public benefits to monitoring organic management is less straightforward and new methodologies are still developing. It therefore makes sense to focus on field testing these less 'tried and tested' elements of monitoring, which also fit better with the timing and seasonal constraints for this project.

Tenders will need to specify the detailed methodology to be used to measure each element, based on the recommendations from the scoping study (Carey *et al.*), and/or the contractor's knowledge and experience. In each case, the suitability of the methodology must be fully justified. The following list references the paragraphs of the scoping study which should be referred to for each element of the monitoring:

- 4.1 – Habitat mapping
 - Tenders should state which method contractors intend to use - this is expected to be a desk-based analysis, though some ground-truthing may be required (e.g. using remote sensing / aerial photography). Tenders must also state the habitat Classification to be used.
- 5 – Soil properties
 - Tenders should indicate the collection method to be used, the number and depth of samples proposed per sampling area and the assessments that will be carried out.
- 6 – Soil erosion
 - Contractors are expected to adopt the same techniques as used in the CS Baseline project. Bids should set out any

additional measurements to be undertaken and justify any variations to the methodology.

- 7 – Soil biota
 - Tenders should identify the collection and assessment methods to be used and the type of results that will be provided. Wherever possible we require consistency with methods used in the CS Baseline project, to enable comparison of results, so DNA analysis should be included.
- 8 – Water quality
 - Tenders should identify the monitoring method to be used, the number of samples per sampling area and the type of results that are to be provided.
- 9.1 – Landscape pattern
 - The assessment should compare the Organic Management option area with the surrounding landscape (within the same National Character area). Tenders should identify the method to be used - this is expected to be a desk-based analysis, though some ground-truthing may be required (e.g. using remote sensing / aerial photography), the measurements to be recorded and the type of results that are to be provided.

Habitat and landscape assessments should be conducted as a single assessment for the whole Organic Management area within a single agri-environment agreement (if appropriate, outlying areas of single agreements can be treated as separate sampling blocks or, if small, ignored).

4. Tasks

The main tasks can be summarise as follows:

Task 1 – Identify sample and carry out desk analysis

- Plan sampling strategy and identify a sample of 30 sites (to be agreed with the Project Steering Group) and arrange access for fieldwork.
- Carry out any desk analysis that is required for the agreed monitoring methodologies.

Task 2 – Field survey

- Plan and carry out a field survey of the selected organic and counterfactual sites to assess the monitoring elements specified above, using the agreed monitoring methodologies.

5. Key outputs

The key outputs of this tender are:

- The successful bidder will be required to provide the Defra/NE Project Manager with short written updates (approx. 1 side A4) of progress on a monthly basis.
- All raw and processed data to be supplied to the Defra/NE Project Manager in an Excel-compatible format by end March 2020. This should contain sufficient meta-data that the data is understandable for further analysis and reporting.
- A document setting out the methodology underlying the data collection and sample analysis so that sufficient information is provided for further analysis and reporting.

6. Contract Management

- The successful contractor should appoint a project leader who must have sufficient experience, authority to act on behalf of the contractor and time allocated to manage the project effectively. The project leader will be responsible for the management and delivery of the project and will act as the liaison point with the Defra/NE Project Manager. A project initiation call between the contractor project leader and the Defra/NE Project Manager will be required within one week of the start of the contract
- Defra/Natural England will establish a project steering group (PSG) to oversee the contract including representatives from NE and Defra and other partners if applicable.
- The contractor project leader will be responsible for convening and chairing two face-to-face PSG meetings. These will be held at the Defra/NE office that is most convenient for the PSG and contractor. The face-to-face meetings will be convened at project initiation and submission of the first draft final report.
- In addition to the face-to-face meetings, the PSG and contractor will meet by teleconference at key points in the course of the project (likely 2-3 calls required). The contractor project lead/ Defra/NE Project Manager (as appropriate) will be responsible for setting up these meetings.
- Secretariat and production of minutes from meetings is the responsibility of the successful contractor who will share meeting minutes with the project team and steering group where applicable.
- The contractor project leader will send a short (approx. 1 side A4) progress update to the Defra/NE Project Manager once a month.
- Invoices against project milestones should be submitted to the Defra/NE Project Manager by email. Invoices will need to include supporting evidence relating to spend incurred (e.g. brief summary of time input, travel and subsistence incurred etc).
- The Defra/NE Project Manager will provide copies of all the relevant agreement documentation once the sample has been agreed (agreement holder contact details, agreement document and options maps for each of the selected sites.) The contractor will be responsible for obtaining relevant information which is publicly available.

Property rights, publication and confidentiality

All data resulting from this project, project documents and other materials will be the property of Natural England. Any data collected will be made openly and publicly available.

The data collected in this project is planned to form the basis of a future report looking at the impact of organic options. Natural England and Defra intend to publish any future report as a Defra science report. The published report will be made available on the Natural England and Defra Science websites. It is likely to be shared directly with partners as part of regular liaison over the progress of Countryside Stewardship and wider RDPE Delivery.

Natural England encourages widespread publication, and welcomes the use of appropriate trade press, peer-reviewed journals and sector-specific journals, but it is a requirement that all plans to communicate outcomes, including publications and oral presentations, from funded research are agreed with the project manager (who will ensure Natural England and Defra QA requirements are met) at least 2 weeks before publication or presentation. The appointed contractor is also to be aware that Natural England and Defra request acknowledgement in the publication of their funded research.

The Contractor(s) will be responsible for ensuring the quality of the work (e.g. proof reading, ensuring clear English).

6.1 Timetable

- The project is expected to start by 9th December 2019 and finish no later than 31st March 2020. Bidders are reminded that cost is one of the factors that will be considered when assessing bids.
- Research contracts are let on a firm price basis (excluding VAT). This is an all-inclusive price for the contract and, so long as the scope of the contract remains the same, it is not subject to any review, amendment or alteration.

6.2 Milestones

Compulsory milestones are as follows:

- Outline Project Plan to be submitted following the inception meeting, by 20th Dec 2019
- Submission of methodology and data by 31st Mar 2020 (please note, payment will not be released until the outputs have been reviewed and deemed satisfactory by the project manager)

References: Carey P, Dimambro M, Rayns F, (awaiting publication, available on request) Countryside Stewardship organic management and conversion

(2.5) Contract Monitoring Arrangements

For the avoidance of doubt the services required are being provided under Framework Agreement 22707

3. PRICE AND PAYMENTS

(3.1) Contract Price payable by the Authority excluding VAT, payment profile and method of payment (e.g. Government Procurement Card (GPC) or BACS))

£82,632.00

For full pricing schedule see Appendix 1

Payable by BACS

(3.2) Invoicing and Payment

The Supplier shall issue electronic invoices in arrears following completion of appropriate milestones.

4. Invoicing Requirements

All invoices should be sent to the Natural England Project Officer.

BY APPROVING THIS ORDER FORM THE CONTRACTOR AGREES to enter a legally binding contract with the Authority to provide to the Authority and natural England the Services specified in this Order Form, incorporating the rights and obligations in the Call-Off Contract that are set out in the Framework Agreement entered into by the Contractor and Defra on 09 December 2019.

Electronic Signature

Acceptance of the award of this Contract will be made by electronic signature carried out in accordance with the 1999 EU Directive 99/93 (Community

framework for electronic signatures) and the UK Electronic Communications Act 2000. Acceptance of the offer comprised in this Contract must be made within 7 days and the Agreement is formed on the date on which the Contractor communicates acceptance on the Customer's electronic contract management system ("Bravo"). No other form of acknowledgement will be accepted.

Appendix 1: ITT responses

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¹ Seufert & Ramankutty 2017. Science advances, **3**, e1602638.

² Bhogal et al. 2009. Eur J Soil Sci, 60:276-286.

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³ Norton et al. 2009. *Ag Eco, Env* **129**:221-227
⁴ <https://www.ceh.ac.uk/services/land-cover-map-2015>
⁵ Jackson D.L., (2000): <http://www.jncc.gov.uk/page-2433>
⁶ Emmett et al. 2010. Accessed 01/10/19: <https://countrysidesurvey.org.uk/content/soils-report-2007>
⁷ Scullion et al., 1998. *Plant and Soil* **204**, 243-254.
⁸ Hole et al., 2005. *Biological Conservation* **122**, 113-130.
⁹ Marriott & Wander, 2006. *Soil Sci Soc Am J* **70**, 950-959.

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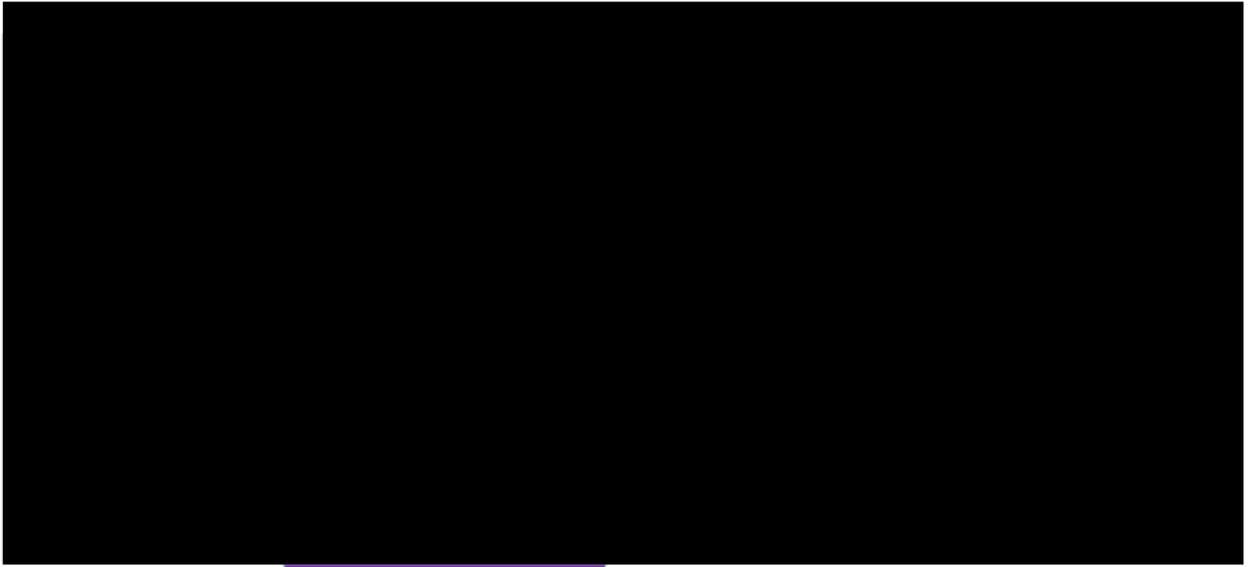
¹⁰ <https://www.fera.co.uk/crop-health/introducing-the-big-soil-community>

¹¹ https://www.fera.co.uk/media/wysiwyg/crop_health/Community_Level_Report_2018_Extract_.pdf

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