



**MANAGED SERVICE PROVIDER FOR EVIDENCE REVIEWS IN THE CONTEXT  
OF WATER RESOURCES AND FLOOD RISK MANAGEMENT**

**ORDER FORM**

**FROM:**

<b>Authority</b>	Defra
<b>Address</b>	Nobel House, 17 Smith Square, London, SW1P 3JR
<b>Order Reference</b>	<b>WT1562 (23561)</b> (To be quoted on all correspondence relating to this Order)
<b>Order Date</b>	20/05/2018

**TO:**

<b>Supplier</b>	Water Evidence Review Consortium
<b>For attn. of</b>	██████████
<b>Address</b>	Legal address:  The Natural Environment Research Council as represented by its component body The Centre for Ecology and Hydrology; registered in England and Wales under number RC000740, whose registered office is situated at Polaris House, North Star Avenue, Swindon, SN2 1EU  Correspondence address:  Centre for Ecology & Hydrology (CEH)  Wallingford, Oxfordshire OX10 8BB

**1. SERVICE REQUIREMENTS**

**(1.1) Services and Deliverables Required:**

Please see Appendix A
<p><b>(1.2) Commencement Date:</b> Please see Appendix A</p>
<p><b>(1.3) Completion Date:</b> Please see Appendix A</p>
<p><b>(1.4) Termination of the Contract:</b> As per Managed Service Provider Terms &amp; Conditions of Contract WT1562 dated</p>
<p><b>(1.5) Termination on Notice:</b> As per Managed Service Provider Terms &amp; Conditions of Contract WT1562 dated</p>

<b>2. PERFORMANCE OF THE SERVICES AND DELIVERABLES</b>
<p><b>(2.1) Key Personnel of the Contractor to be involved in the Services and Deliverables:</b> As stated in <b>Appendix C – Research Team</b></p>
<p><b>(2.2) Service Levels:</b> As stated in <b>Appendix B – WERC Service Proposal</b></p>
<p><b>(2.3) Location(s) at which Services are to be provided:</b> Primarily suppliers own premises and other locations as reasonably required from time to time.</p>

<b>3. PRICE AND PAYMENTS</b>
<p><b>(3.1) Contract Price payable by the Authority:</b> As stated in <b>Appendix C – Pricing Schedule</b></p>

### **(3.2) Invoicing and Payment**

We have agreed an invoicing schedule tied to milestones as follows:

- 30% of the agreed fee on submission of the draft protocol
- 35% of the agreed fee on submission of the draft final report
- 35% of the agreed fee on submission of the final report

## **4. CALL –OFF CONTRACT TERMS AND CONDITIONS**

As detailed in the Managed Service Provider Terms & Conditions of Contract WT1562 dated

## **5. ADDITIONAL CLAUSES TO BE INCORPORATED INTO THIS CALL-OFF CONTRACT**

The Authority and the Contractor acknowledge and agree that on and with effect from the date on which the United Kingdom Research and Innovation (UKRI) Property Transfer Scheme becomes effective in accordance with its terms (the Scheme Effective Date – 1 April 2018):

- all rights and benefits of the Contractor arising out of or in connection with this Contract; and
- all obligations and liabilities of the Contractor arising out of or in connection with this Contract,

shall (in each case) be transferred to UKRI in accordance with the provisions of that transfer scheme and otherwise on the basis set out in Schedule 10 to the Higher Education and Research Act 2017.

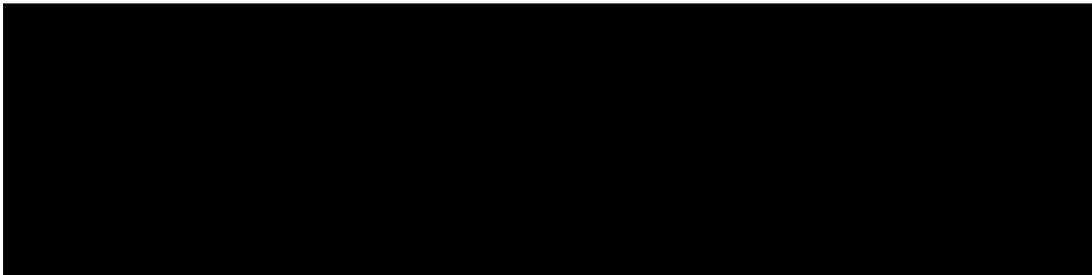
The Authority and the Contractor agree that on and with effect from the Scheme Effective Date:

- where there is a reference to the Contractor in this Contract, it shall be construed as a reference to UKRI; and
- The Authority shall provide such assistance as UKRI may reasonably require for the purpose of giving to UKRI the full benefit of this Contract.

In this clause UKRI Property Transfer Scheme means a property transfer scheme made by the Secretary of State in accordance with the provisions of Schedule 10 to the Higher Education and Research Act 2017.

**BY SIGNING AND RETURNING THIS ORDER FORM THE CONTRACTOR AGREES** to enter into a legally binding Contract with the Authority to provide to the Authority the Services specified in this Order Form incorporating the rights and obligations set out herein and as set out in the Call-Off Contract and the Framework Agreement entered into by the Contractor and the Authority.

For and on behalf of the Contractor:-



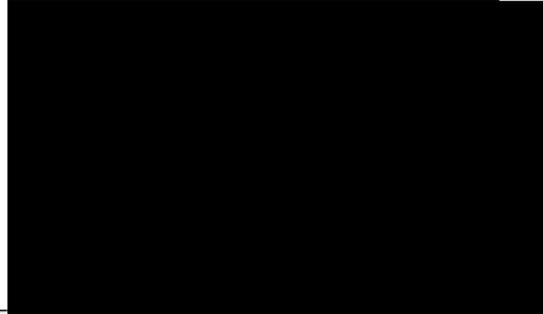
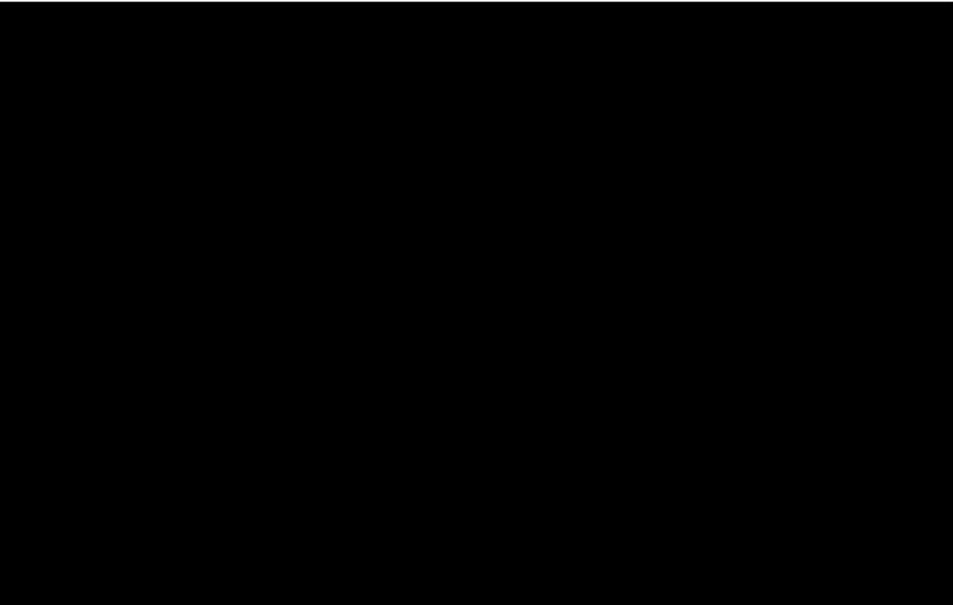
For and on behalf of the Authority:-



## 1. SERVICE REQUIREMENTS

### Appendix A – Defra specification

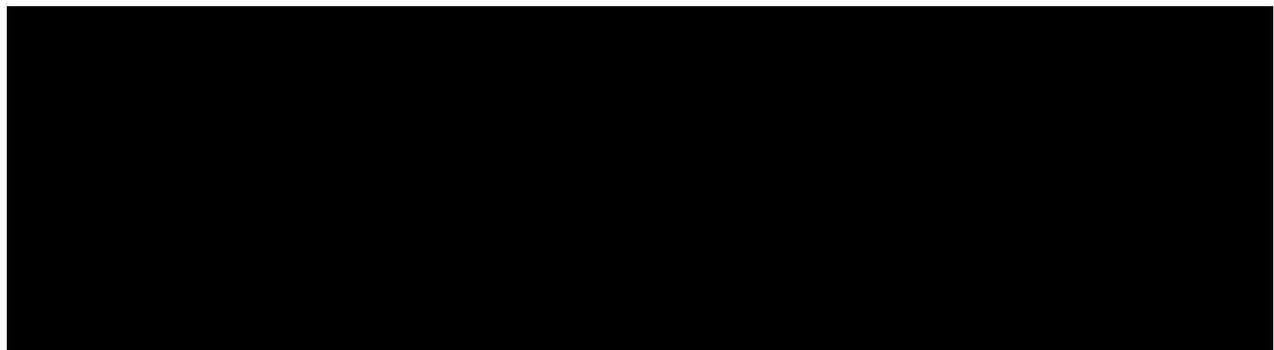
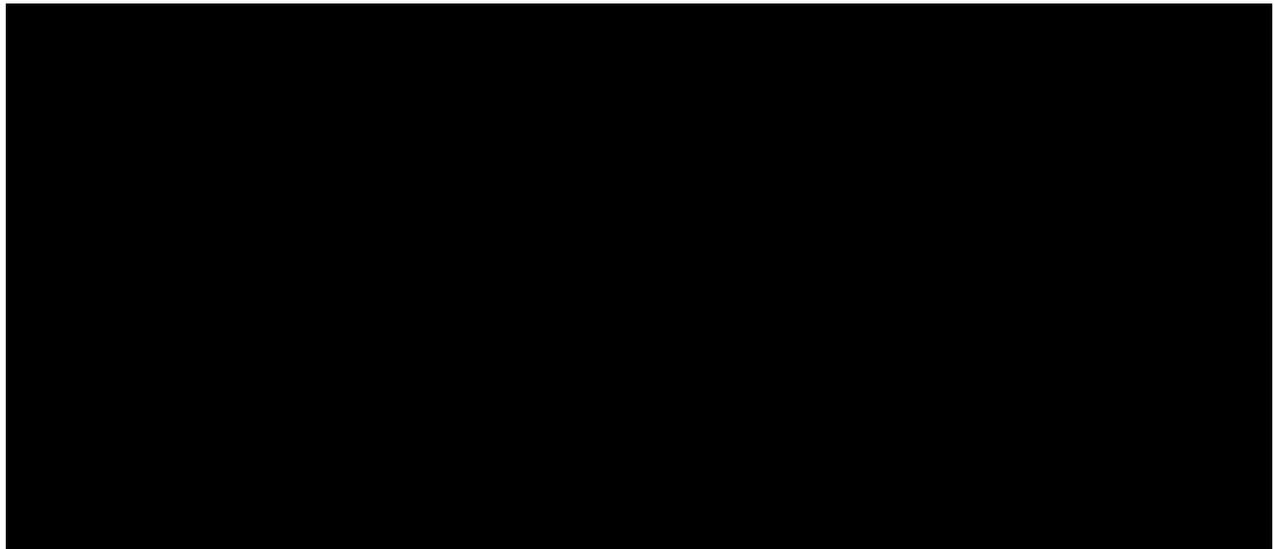
Project number	WT1562, Project no 14
Form Version Number	1
Date	20/05/18
Topic	Evidence Review on the contribution of Anaerobic Digestion (AD) technologies to the development of Antimicrobial Resistance / Antibiotic Resistant Genes in the environment through AD processes and possible impacts on the environment from the use of liquid and solid by-products from AD.
Policy needs	<p><b>Aim:</b> To conduct an <b>Evidence Review</b> to better understand the role and potential impacts of treating waste solids through anaerobic digestion, on the occurrence and dissemination of AMR and ARG to the environment.</p> <p>Waste solids to be considered shall include, although not exclusively, biosolids, slurry and other by-products from agriculture.</p> <p>The review shall explore the effects on the subsequent digestates from using different waste sources.</p> <p><b>Rationale:</b> We would like the focus to be on improving our understanding of the role of anaerobic digestion influencing the development of AMR and AGR loading on waste materials and the subsequent effect from the use of by-products from AD on the environment.</p> <p>Mesophilic and thermophilic anaerobic digestion technologies should be considered, as they are used to different extents in different industries.</p> <p>Evidence should be sought up to and including the application of AD digestate to land, to understand how/if the AMR profile created through AD treatment may be entering the environment through this practice.</p> <p>Papers including antibiotics and more generalised pharmaceutical monitoring should be considered in the review.</p> <p>This evidence is needed to inform decision making to effectively manage any potential risks to the spreading of AMR from</p>

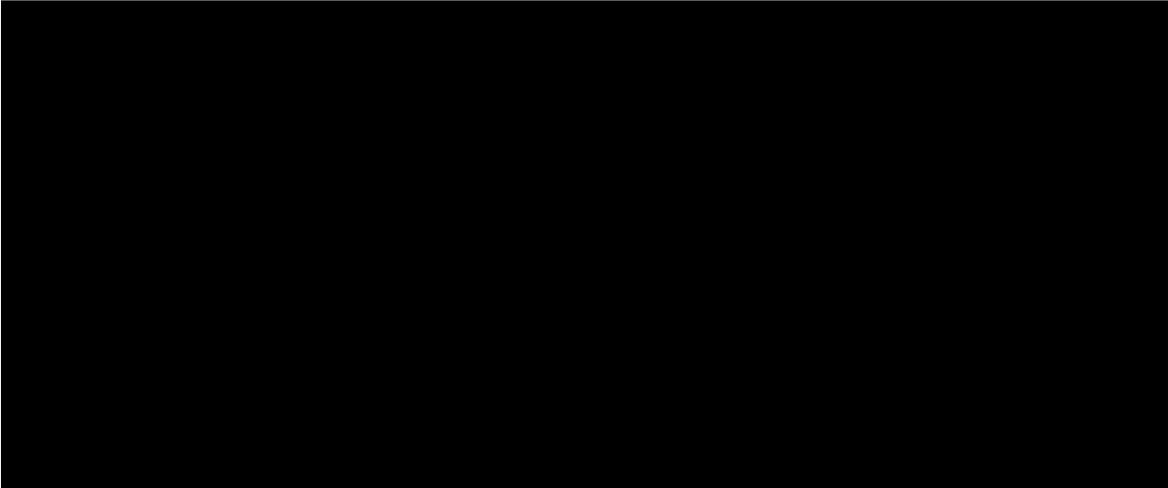
	anaerobic digestion processes, support the strategy for future research and policy decisions on this area.
Draft question	How does anaerobic digestion contribute to the development of antimicrobial resistance and antimicrobial resistant genes on the digestate produced, when applied to wastewater and agricultural waste? Is the AMR profile created during AD maintained, increased, or decreased when AD by-products are applied to land?
Policy lead	
Main Defra point of contact	
Type of ER proposed	Rapid Evidence Assessment
Review team expertise required	

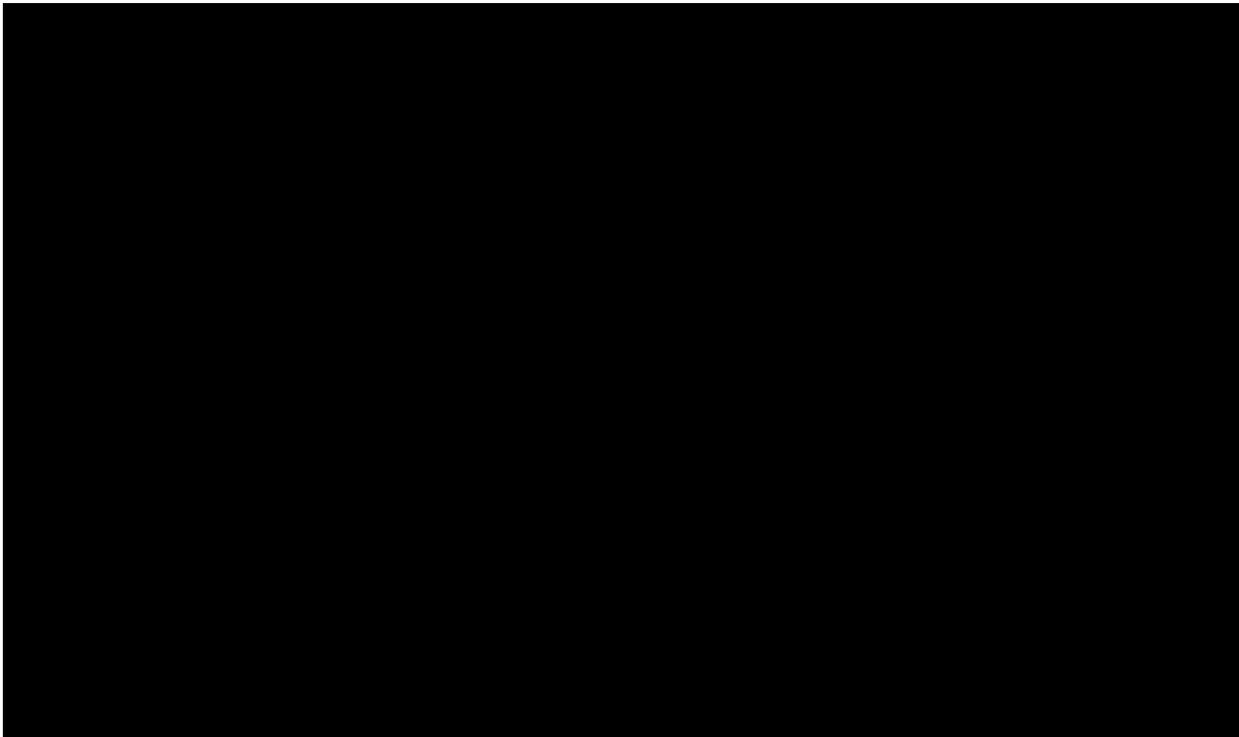
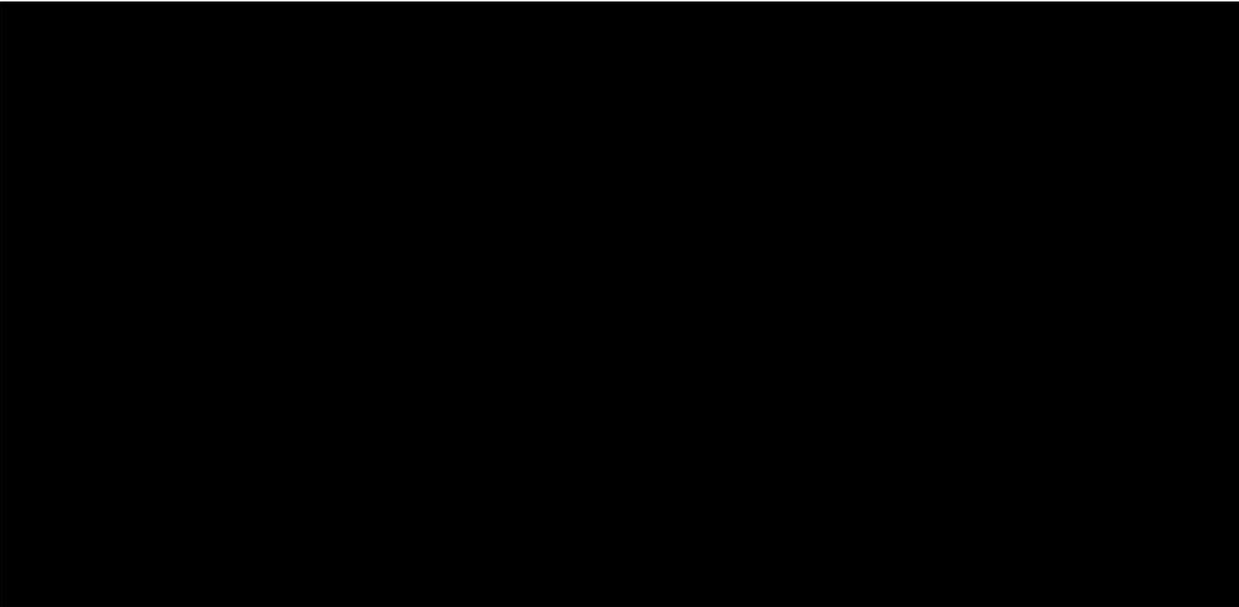
Proposed steering group membership	[REDACTED]
Time scale proposed for the work	3 months
Proposed start date	June 2018
Proposed end date	August 2018
Form completed by	[REDACTED]

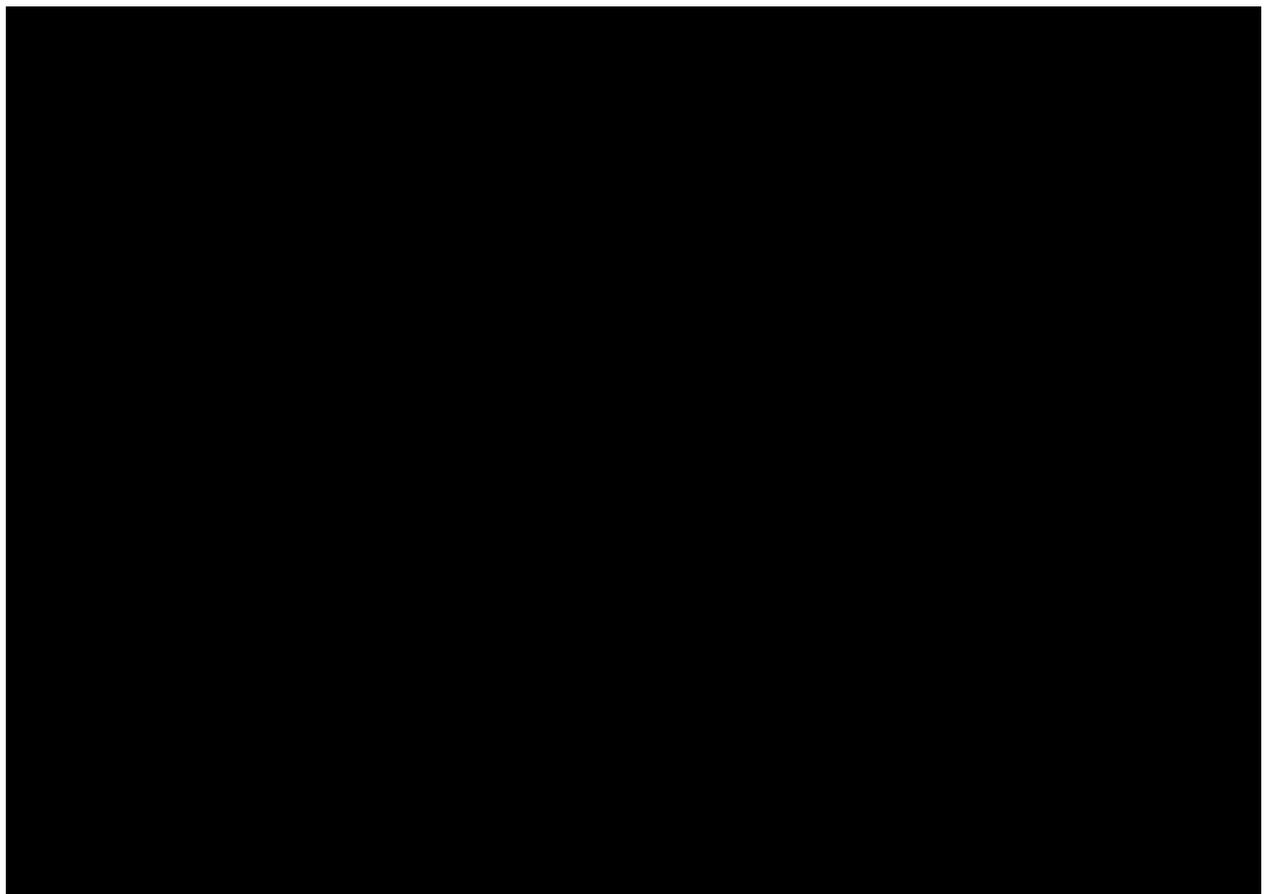
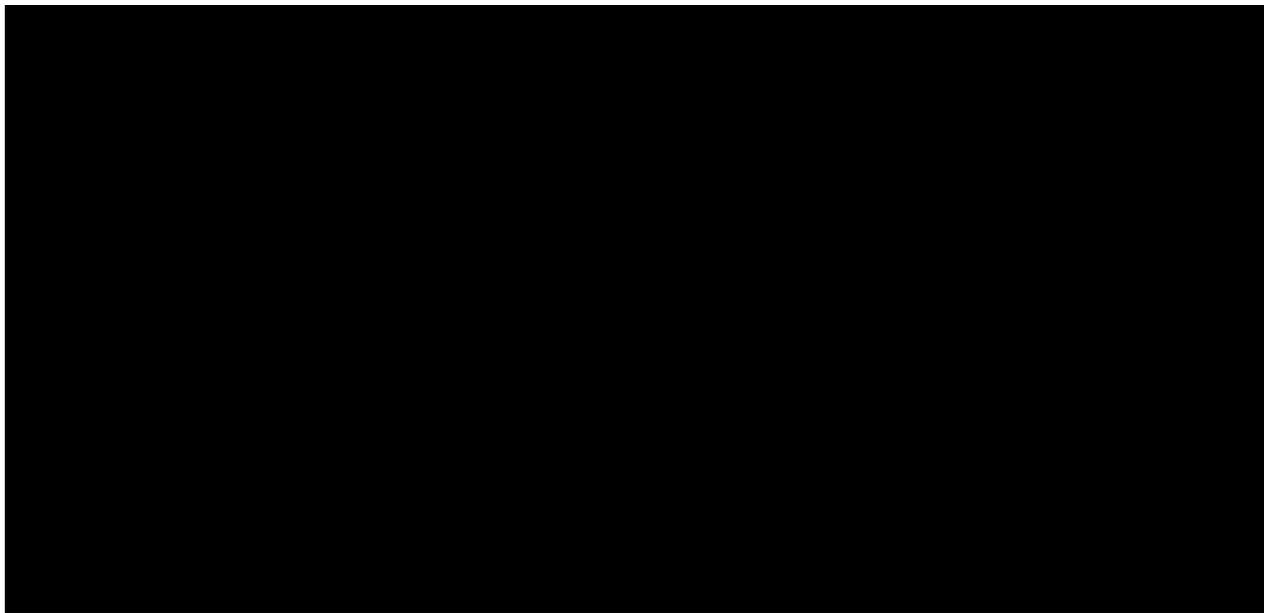
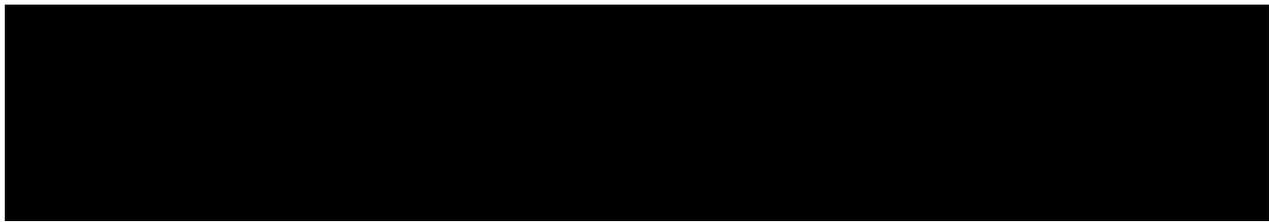
## 2. PERFORMANCE OF THE SERVICES AND DELIVERABLES

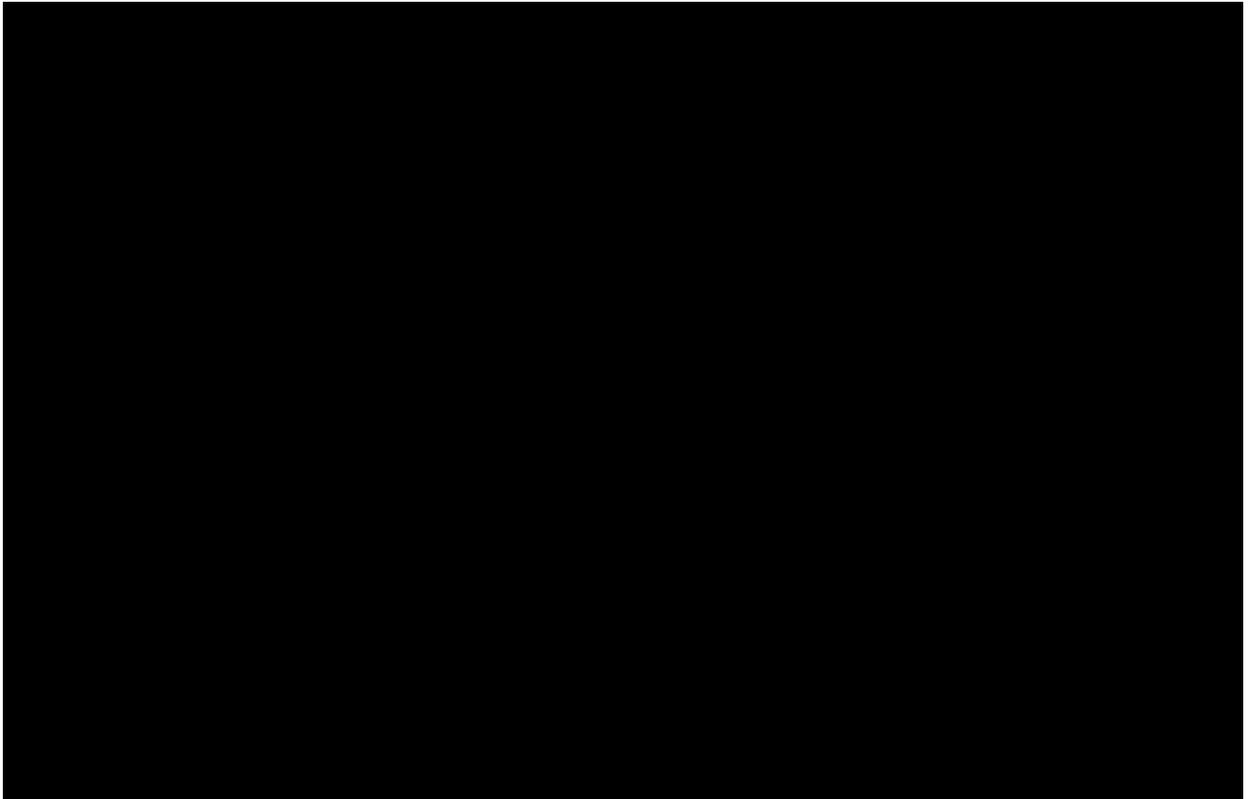
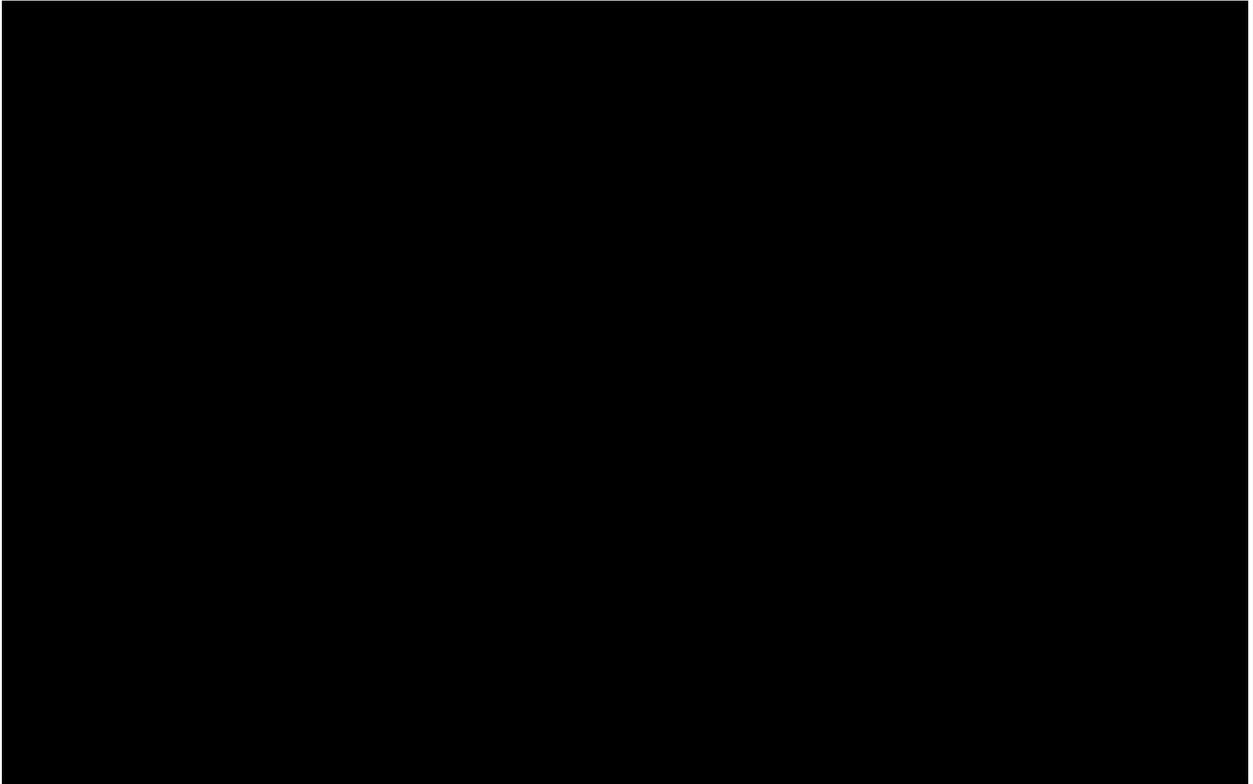
### Appendix B – WERC Service proposal













## Appendix C - Pricing Schedule

Our proposed fee for this study is £24,692 (excluding VAT). The table below outlines our proposed fee, including details of daily fee rates and number of days per team member.

