



## **Appendix 2 – Call-Off Procedure: for The Research, Development and Evidence Framework 1**

### **Tender Reference:**

**Date: 06/09/2023**

### **1.0 Request for Proposal**

1.1 The following document is to be used as a Call-Off template to be sent to all Contractors on a sub-lot by the Project Manager of the Contracting Authority for completion and return in accordance with the Call-Off procedures detailed in the Form of Agreement.

## **Research, Development and Evidence Framework**

### **REQUEST FOR PROPOSAL**

**To be completed by Contracting Authority Project Manager please remove all red text before issuing**

<b>Project title:</b>		PFAS Enhanced Monitoring Phase 2 - Cam and Ely Ouse	
<b>Call off Reference:</b>		RDE108	
<b>Atamis project ref (if applicable):</b>		C20925	
<b>Cost Centre Code (for admin purposes only)</b>		██████████	
<b>Date: <span style="color: red;">date call off is issued to supplier(s)</span></b>		10 working days from request being sent.	
<b>Contracting Authority (Defra and its arms-length bodies etc)</b>	Environment Agency		
<b>Project Manager:</b>	██████████	<b>Phone number:</b>	██████████
<b>Authorized by:</b>	██████████	<b>Email:</b>	██████████ ██████████
<b>Commercial Contact (if applicable):</b>			
<b>Project Start Date</b>		September 2023	
<b>Project Completion Date</b>		28 February 2024	
<b>For any projects over the direct award threshold, full competition is</b>	<b>Direct Award</b>	No	<b>Minicomp</b> Yes

<b>required (i.e. all contractors on the Sub-Lot are invited to quote).</b>				
<b>Call off from Sub-Lot number</b>	5.1			
<b>Proposal return date:</b>	10 working days from date submitted.			

<b>Evaluation criteria</b>		
<b>Contractors:</b> Failure to meet any minimum score threshold stated will result in the bid being removed from the process with no further evaluation regardless of other quality or price scores.		
<b>Quality</b>	<b>Weighting</b>	<b>70%</b>
<b>Price</b>	<b>Weighting</b>	<b>30%</b>
<b>Quality Sub-Criteria Weightings: (Indicative only)</b>		

<p><b>Approach &amp; Methodology</b></p> <p><b>Minimum score 70 of 100</b></p>	<ul style="list-style-type: none"> <li>• Demonstrate how you will meet the description of work.</li> <li>• How you will plan and execute the sampling and analysis work required. Including protocols and any accredited sampling or analysis methods used.</li> <li>• How you select monitoring locations considering their suitability for assessing PFAS contamination of the study area, safe and legal access to the river and sediments. *note we do not want to target any specific sites or discharges but assess the level of PFAS across the study area.</li> <li>• Demonstrate that you're understanding PFAS substances and the methods, limitations of the science and meet the objectives of the project. Including the targeted PFAS</li> <li>• Details of how to transport and store samples and consider the need to maintain integrity and prevent cross contamination.</li> </ul> <p>Reporting</p> <ul style="list-style-type: none"> <li>• Quality Assurance procedures to ensure robust outputs, including</li> </ul>	<p><b>Weighting 60%</b></p>
--	--	-----------------------------

	<ul style="list-style-type: none"> <li>number and types of blanks and sites to collect replicates</li> <li>• How you plan to report and deliver the data to ensure transparent and robust data analysis.</li> <li>• Details of key subcontractors to be used and the expertise they will bring to the project.</li> <li>• Management of key Health and Safety risks associated with site visits, sampling, and laboratory work</li> <li>• Management of the key sustainability risks associated with site visits and laboratory work.</li> </ul>	
--	--	--

<p><b>Proposed Staff (inc Pen Portraits) and Contractor's experience/accreditations.</b></p> <p><b>Minimum score 50 out of 100</b></p>	<ul style="list-style-type: none"> <li>• Project Management skills</li> <li>• Prior experience in chemicals investigations dealing with trace concentrations of multiple substances</li> <li>• Environmental investigations and formulations of sampling plans</li> <li>• Laboratory analysis and results interpretation ensuring accurate high-quality data</li> <li>• Report Writing</li> <li>• Quality Assurance</li> <li>• A project team organisation diagram should be attached with your reply that provides a clear reporting structure.</li> </ul> <p>Your reply should also provide a brief explanation of how you will ensure project continuity if key staff become unavailable.</p>	<p><b>10%</b></p>
<p><b>Project Management (including project plan)</b></p>	<ul style="list-style-type: none"> <li>• Please provide details of your company's experience of successfully undertaking similar projects.</li> <li>• Please provide details on how the</li> </ul>	<p><b>10%</b></p>

<p><b>Minimum Threshold 70 out of 100</b></p>	<p>project will be managed that evidences a planned approach, identification and mitigation of key project risks and the ability to deliver high quality outputs within the required timeframes.</p> <ul style="list-style-type: none"> <li>• Your reply should include an overview of the quality assurance procedures you will apply to the project.</li> <li>• Your reply should also give an overview of how you will manage the business risks.</li> <li>• If you are using sub-contractors to deliver key elements of the project, please advise how they will be managed.</li> <li>• Please provide a draft programme timetable that includes the critical path for key activities. This can be in the form of a Gantt chart or similar attached with your reply.</li> </ul>	
<p><b>Risk:</b></p>	<ul style="list-style-type: none"> <li>• Adverse weather and flexibility built into the proposal</li> <li>• Staff sickness</li> <li>• Laboratory capacity, poor laboratory performance, lost samples</li> </ul>	<p><b>10%</b></p>
<p><b>Health &amp; Safety</b></p>	<ul style="list-style-type: none"> <li>• Ensuring sampling locations and methods are selected with access and safety being primary</li> </ul>	<p><b>PASS/FAIL</b></p>

<b>Sustainability – Mandatory</b>	The Authority has set itself challenging commitments and targets to improve the environmental economic and social impacts of its estate management, operation, and procurement.	<b>10%</b>
	<p>These support the Government’s green commitments. The policies are included in the Authority’s sustainable procurement policy statement published at:  <a href="https://www.gov.uk/government/publications/defras-sustainable-procurement-policy-statement">https://www.gov.uk/government/publications/defras-sustainable-procurement-policy-statement</a></p> <p>Within this context, please briefly explain your approach to delivering the services and how you intend to reduce negative sustainability impacts. Please discuss the methods that you will employ to demonstrate and monitor the effectiveness of your organization’s approach for this requirement</p>	

<b>Specification</b>
<b>1. Description of work required – overall purpose &amp; scope (including reporting requirements)</b>

**Background:**

Polyfluoroalkyl and perfluoroalkyl substances (PFAS) are a broad group of synthetic fluorinated organic chemicals which are extremely persistent in the environment. Some are bio-accumulative and toxic, and/or highly mobile. PFAS are used in a wide variety of consumer products and industrial applications because of their unique chemical and physical properties, including oil, water and stain repellence, temperature and chemical resistance, and surfactant properties. PFAS have been used as surfactants (including aqueous film firefighting foams (AFFFs), non-stick metal coatings for frying pans, paper food packaging, creams and cosmetics, textiles for furniture and waterproof outdoor clothing, paints and photography, chrome plating, pesticides, and pharmaceuticals and as polymer manufacturing.

Due to their widespread use, uncontrolled release and chemical persistence PFAS are now ubiquitous in the secondary environment. Elevated concentration in ground and surface water presents a potential risk to human health and the environment. While EA monitoring programmes of surface and groundwaters is focusing on our existing network, there is also a need for high resolution sampling where PFAS substances have been detected in the environment. This will help identify significant sources to allow for further research and conceptualisation and in turn help support future investigation and assessments.

**Project Aims:**

The purpose of this project is for targeted catchment scale surface water and sediment survey. The survey area has been chosen based on suspected elevated PFAS concentrations based on risk screening work. It is envisaged that the work will take place between August 2023 and March 2024 and consist of one sampling visits to the study area.

**Project Objectives:**

- To investigate the concentration of PFAS in surface waters and sediments and collect, analyse and report representative environmental data.
- To sample and analyse surface waters for PFAS at 30 locations across the area stipulated in the proposal.
- To sample and analyse sediments for PFAS at 30 locations across the area stipulated in the proposal.
- Fully quantitative analysis of standard suite of PFAS including - PFCA, PFSA, FTSA
  - While the exact list of PFAS will change between laboratories, PFAS commonly detected in waters include - 6:2 FTAB, 6:2 FTSA, PFNA, PFDcA, PFUnDA, PFOSA, PFTTrDA, PFBS, PFBA, FBSA, PFHpA, PFHxS, PFHxA, PFOS, PFOA, PFPeS, PFPeA. Any additional PFAS as part of standard analytical suites should also be reported.
    - PFAS commonly detected in Sediment include - PFBA, PFHxS, PFOA, PFNA, PFOS, PFOSA, PFHpA, PFPeA, PFDcA, PFUnA, PFDcS, PFDODA, PFTTrDA, PFTeDA, PFBS, PFHxA, PFOS, FOSA, 8:2 FTS and 6:2 FTS. Recent examples of sediment analysis can be found here <https://randd.defra.gov.uk/ProjectDetails?ProjectId=2050>
    - Total organic carbon (TOC) content of the sediment is also needed. ○ Standard site observation such estimates of flow, channel width / depth, bed substrate should be reported with photographic evidence.
    - An overview of the sampling protocol and analytical approach should also be outlined.
- The Supplier needs to stipulate a list of PFAS and parameters being determined in water and sediment for evaluation.
- Design a sampling strategy which provides data representative of the study area. Samples should focus on primary watercourses, along a transect and should not target specific discharges or suspected sources.
- Sample sites should be scoped to ensure locations are safe and that correct permissions are secured. The Environment Agency is not able to comment on the access and suitability of specific sites.

#### **Requirements:**

- The supplier needs to demonstrate that all precautions are taken to avoid PFAS cross contamination and demonstrate knowledge of sediment sampling, handling, storage, and analysis of PFAS samples.
- The supplier needs to demonstrate how data quality will be ensured, including both sampling and analytical quality.
- The client needs to provide a general outline of a sampling plan and demonstrate knowledge of geochemical investigations.
- The client needs to provide evidence that the relevant staff and analytical capabilities are available, this includes a PFAS analytical suite.
- Contingency planning for staff absence, adverse weather and site access.
- Interpretation of the data is not required, results need to be reported as a factual report with concentration given and clear information on sampling strategy, approach, analytical methods, quality control measures and high-level site details.

**Administrative procedures**

The balance of the amount due at the end of the project (invoices must be received by the end of February of that financial year), after all tasks have been completed and upon the approval of the final report by the Environment Agency. The draft invoices should be agreed with the Authority Project Manager before submission to Environment Agency Finance (Shared Services Connected Limited - SSCL). All invoices should be submitted within one calendar month after the finalisation and agreement of each milestone (as listed above). Any outstanding invoices within each financial year must be submitted no later than the 17th February.

**Quality Assurance**

The Supplier and any sub-contractors are required to apply an appropriate, audited quality assurance process for the tasks required. The Environment Agency will not accept costs relating to re-analysis of samples, delays or other re-work required that is due to the fault of the Supplier or their sub-contractor.

**Pricing**

Pricing will be a fixed contract price for the duration of the contract. A detailed schedule of all rates should still be supplied by the supplier when costing their proposal.

**Additional information**

Any potential conflict of interest (e.g. because of contractual involvement with actual or potential stakeholders), for either the Supplier or their sub-contractor, must be clearly declared to the Authority’s Project Manager as soon as the conflict is identified. If the conflict cannot be resolved, the contract may be terminated.

The Supplier is responsible for the health and safety of their staff or sub-contractor staff, including during site visits, laboratory work and any additional Covid19 safety measures necessary.

The Supplier will be responsible for arranging access to sample sites with the site operators, including site inductions and compliance with site Health and Safety rules and provision of appropriate PPE. The Environment Agency will not accept costs relating to failed site visits or additional time on site that is the fault of the Supplier

For sampling protocol resource - [https://pfas-1.itrcweb.org/11-sampling-and-analyticalmethods/#11\\_1](https://pfas-1.itrcweb.org/11-sampling-and-analyticalmethods/#11_1)

**Appendix A:**

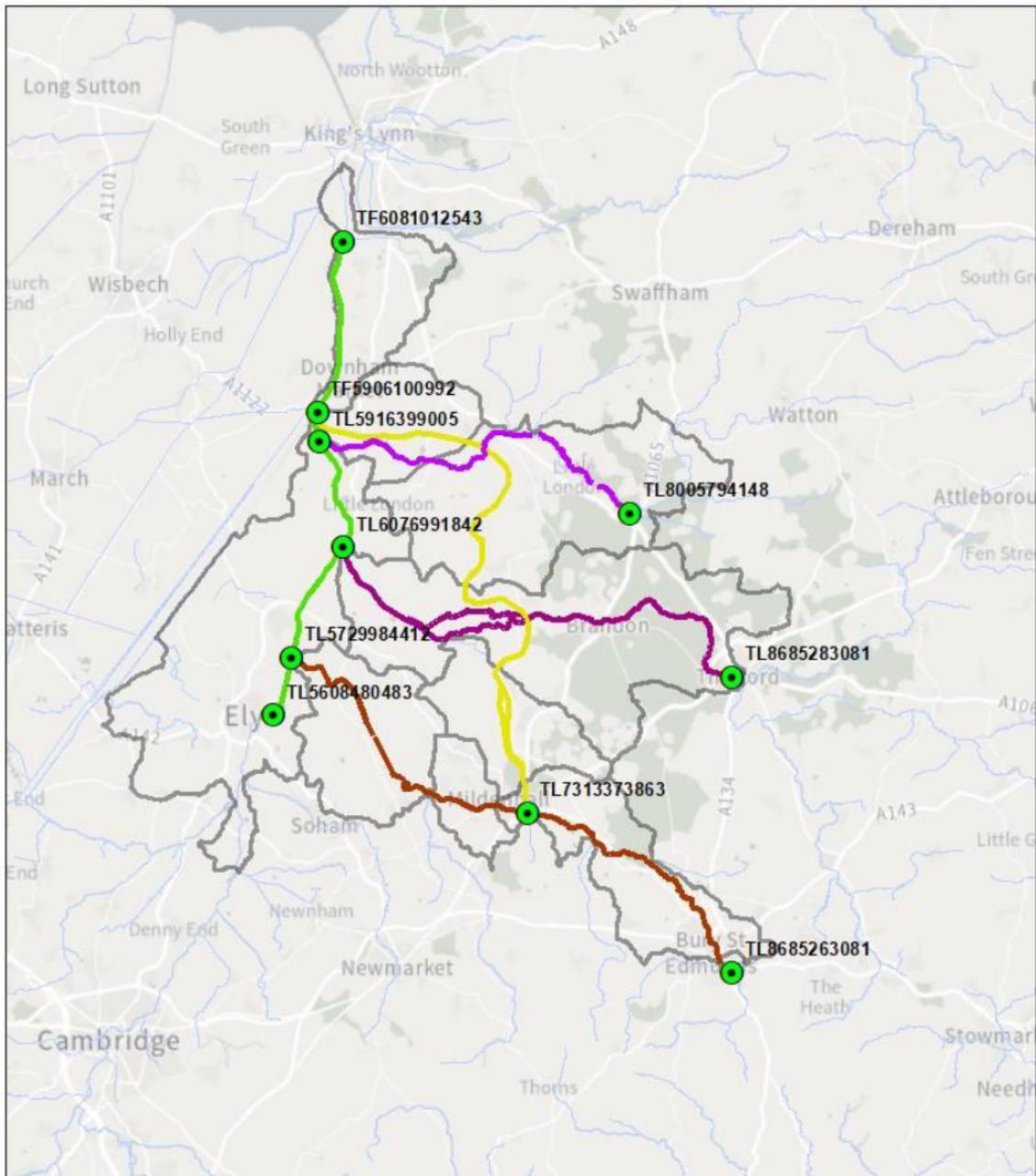
Study Area - East Anglia

Operational Catchment	Lark; South Level and Cut-Off Channel (Lakenheath et al)
Management Catchment	Cam and Ely Ouse
EA Area	East Anglia

Environmental  
Protected  
designations

DRW GWSGZ; SPZ; Groundwater vulnerability

Groundwater	Cam and Ely Ouse Chalk - High vulnerability, Principal aquifer
PFAS evidence in the area	Data shows PFAS being detected in a number of groundwater samples in the catchment. Limited surface water data is available with some elevated concentrations found in the CIP2 monitoring program.
	The catchment drains into the Bedford Levels and is a network of low energy drains and ditches. These lead to the main channels of the Ten Mile River.
Proposal	<p>Target sampling should be spaced a suitable intervals to coollect data from the extent, the main waterbodies listed below.</p> <p><b>Suggested Sampling.</b></p> <p>Extent 1 Sampling of the main stem of between Brandon Creek and Thetford – Approximately 31km GB105033043400 <b>4 surface water and 4 sediment samples from the extent.</b></p> <p>Extent 2 Sampling of the Cut-Off Channel between Salters Lodge and Mildenhall Approximately 42km <b>4 surface water and 4 sediment samples from the extent.</b></p> <p>Extent 3 Sampling of the River Lark from Bury St Edmond to Confluence with River Great Ouse – Approximately 37km GB105033042900; GB105033043051; GB105033043052 <b>8 surface water and 8 sediment samples from the extent.</b></p> <p>Extent 4 Mundford to confluence with 10 mile River Approximately 24 km GB105033047630; GB105033047650 <b>6 surface water and 6 sediment samples from the extent.</b></p> <p>Extent 5 Ten mile River and Relief Channel Approximately 34 km GB105033047850; GB105033047660 <b>8 surface water and 8 sediment samples from the extent.</b></p> <p><b>Total – 30 water and 30 sediment sites</b></p>
Potential Sources in the catchment include several permitted landfills and air transport sites	



**Legend**

- WFD\_rivers\_050k
- Extent\_5\_Ten\_Mile\_River
- Extent\_4\_Mudford\_to\_10\_mile\_River
- Extent\_3\_Bury\_St\_Edmond\_to\_Great\_Ouse
- Extent\_2\_CutOff\_Channel
- Extent\_1\_Little\_Ouse\_River
- Enhanced\_Monitoring\_NGR
- Enhanced\_Monitoring\_WB

0 4.25 8.5 17 Kilometers

**2. Required skills / experience from the contractor and staff.** Include any essential qualifications or accreditations required to undertake the work.

The ability to design sampling strategies (sediment and water) to deliver a representation of chemicals contamination  
 The ability to robustly and reliably sample in a safe and appropriate manner  
 Experience in management of projects looking at complex environmental issues  
 Access to analysis of target PFAS  
 The ability to report data in a logical format  
 Good communication skills and experience in delivering similar projects

**3. Proposed program of work and payment table (Detailing specific tasks, key milestones, deliverables & completion date where appropriate)**

Task no.	Task and deliverable	Completion date	Payment schedule
1	<p><b>Start-up meeting</b></p> <p>Start Up Meeting organised by supplier to discuss approach and refine scope. This can be arranged a week after the contract has been awarded and purchase order has been set up successfully. Short meeting to discuss background to the project and overarching aims and objectives can be discussed.</p> <p>Short 30 minute progress meetings should be scheduled on a monthly basis to discuss any progress and issues, all issues and project risks should be raised to the Authority. Month progress reports should be emailed to the project manager (template to be provided by EA).</p>	<p>Week Commencing 11 September 2023</p>	
2	<p><b>Select sample sites</b></p> <p>Sample site selection should be undertaken following desk-based investigations. The extent stipulated in the scope and number of samples should be discussed.</p>		

3	<p><b>Sample collection</b></p> <p>Each sample location is to be visited by the Supplier when the rivers are in normal flow conditions and not in flood, samples are to be collected following strict protocols which minimise the risk of PFAS contamination. Samples should be stored appropriately, transported and results obtained.</p>		
4	<p><b>Reporting</b></p> <p>The Supplier must compile results into an appropriate format in an Excel spreadsheet, including location information and concentrations of each sample. A field and analytical report is needed including details on sampling methodology, analytical method (including limits of detection), report data quality and data assurance (Field and lab Blanks / suitable number of replicates).</p>	<p>Draft Report sent to EA by 13 January 2024. EA to review and provide comments by 28 January 2023. Latest date for Final Report to be submitted and accepted is 21 February 2024.</p>	<p>30% payment after review and acceptance of draft report by EA. Remaining 70% when final report submitted and formally accepted by PFAS technical lead.</p>
5	<p><b>Project close-out</b></p> <p>After submission and acceptance by the EA of the final data, the final invoice will be paid in full. Then a final close out meeting should be scheduled by the supplier to close the project. This is chance to review the work, celebrate achievements and realise any lessons learnt. This will also be a chance for any other feedback from all parties on all aspects of the project.</p>	<p>Week commencing 4 March 2024.</p>	

**4. Risk**

*Note: This section is to be used to detail any risks or key elements relevant to the project i.e. Programme deliverable dates, workshops or external requirements, data, consultees, stakeholders etc that could impact the success of the project if they are not managed.*

- Adverse weather and flexibility built into the proposal
- Staff sickness
- Laboratory capacity, poor laboratory performance, lost samples

**Note: The following information is managed at framework level and should not be repeated unless there are specific requirements that relate to your project. General requirements should be covered in Section 1 and be included in the Contractors reply to the Approach and Methodology section unless you are using the optional evaluation criteria. Delete sections if not required.**

#### **5. Health and Safety Requirements**

*Note: Only include if high risk activities being undertaken e.g. working at height, near or over water). Do not request RAMS or similar risk assessments are returned with submissions. These should only be requested at contract award.*

#### **6. Further Sustainability Considerations**

## 2.0 Proposal

- 2.1 The following document is to be used as a Call-Off template to be sent to all Contractors on a sub-lot for completion and return in accordance with the Call-Off procedures detailed in the Form of Agreement.

### Research, Development and Evidence Framework 2

#### PROPOSAL

**To be completed by the Contractor**

**Contractor's Name:** Jacobs

**Call off Reference:** RDE108 Sub-

**Lot Number:** 5.1

**Date:** 20/9/23

**Note:** Your proposal must not exceed 6 sides of A4 plus the Costs Proposal in on 4 (unless otherwise indicated in project client's specification above). hments must not be included unless requested except for a programme am and full cost schedule if you consider these would support your proposal.

It make or append Caveats and Assumptions in your proposal – any points certainty must be raised as a clarification point prior to submitting the proposal. Where assumptions are to be made, these will be stated by the

Manager.arity's Project

1. Approach & Methodology ([Tender Response Requirement E1](#))

We understand that a targeted catchment scale surface water and sediment survey is required at the sampling locations detailed in Appendix A. The catchment scale survey is required to help identify the distribution of PFAS substances detected in the water environment, within the study area, allowing for further research, conceptualisation, and support future investigation and assessments.

We have previously successfully delivered PFAS sampling and analysis to you with challenging timescales, and will bring that experience to the project, together with our aquatic scientists' skills and experience in boat handling and sampling. We are mindful of the risks and challenges associated with this specialist work. We have drawn on this experience to develop a series of tasks to enable us to successfully deliver this commission. The methodology for each of these tasks is detailed below:

### **Task 1- Start up meeting**

The start-up meeting will be undertaken as a virtual meeting. To discuss the project approach and refine the scope of works, Jacobs will raise the following points of discussion with the Environment Agency during the startup meeting:

- Sampling locations; Health, safety and environmental considerations; PFAS testing suites; project programme; reporting requirements; payment requirements.

### ***Task 1 Deliverables - Meeting minutes***

### **Task 2 – Select Sample Sites**

The target sampling strategy detailed in the EA proposal will be used as the basis for selection of sampling sites, with the initial plan to be to identify plausible sample locations based on representative even distribution along the identified river extents, avoiding obvious potential point sources, such as wastewater treatment works or other potential source sites, identified on the PFAS Risk Explorer. Google Maps and similar tools will be used to identify potentially suitable sampling locations based on bank access or suitable boat launch sites. We propose to plan for at least two additional 'contingency' locations on each extent which will be used if the preferred locations are deemed unsuitable by the site teams when they arrive on site. Proposed sample locations will target areas of likely sediment deposition.

Where sampling by boat will be required, we will obtain the required navigation licenses.

We will develop a sampling methodology and protocols, including steps to minimise the potential for cross contamination. This will draw on our previous experience of sampling groundwater and surface water as part of the Phase 3 PFAS Risk Screening Project and the Airport Water Monitoring projects (see Section 3). We will also undertake the preparation for the site visits including health and safety planning.

### ***Task 2 Deliverables - Desk study and sampling strategy (including plan of proposed sample locations across the study area) and health and safety planning documentation.*** **Task 3- Sample Collection**

We propose to have a dedicated sampling team who will undertake the monitoring at all locations. This will ensure consistency in the sampling approach, which reduces the chance of introducing sampling bias. The team will comprise 3 members of staff who will undertake sampling from a small survey vessel from publicly accessible locations identified in Task 2, or from the bank where water depths preclude the use of the survey vessel. In the week prior to the visit being undertaken, weather forecasts will be reviewed to try to avoid adverse weather conditions and high-water levels. At the beginning of the visit at each launch / sampling location, a Point of Works Risk Assessment (POWRA) will be undertaken to determine if the site conditions differ those outlined in the original method statements and risk assessments (RAMS) prepared as part of Task 2. Best endeavours will be followed to find a suitable sampling location close to those identified by the sampling strategy. However, the site team will not collect a sample if they cannot locate a safe sampling location. We have also allowed for a Senior member of staff to provide office and initial fieldwork support to the sampling team, assisting with logistics and identifying alternative possible locations.

The sampling will comprise the following:

- Where possible, water and sediment sampling will be undertaken from a powered survey vessel at each site. Sample locations will be selected based on professional judgment to target locations within the river where deposition is most likely. Water samples will be collected first, to minimise risk of sediment disturbance. Water samples will be collected by niskin (for bed level sampling) or sampling bucket for surface water samples. A sample record proforma will be completed, including, as a minimum, location (recorded with handheld GPS); weather conditions; sample appearance; other observations.
- River bed sediment samples (to 5cm of surface material) will be obtained by deployment of a 0.1m day grab (or similar) and retained in laboratory provided containers. If there is insufficient sediment to collect a sample at the proposed location, then the team will seek an alternative location within 100m of the original proposed location. A photograph will be taken of the collected sample. A sample record proforma will be completed,

including, as a minimum, location (recorded with handheld GPS); sample description (colour, predominant grain size); other observations.

- Samples from each location will be collected and stored chilled, following the sampling strategy, to preserve integrity and avoid cross contamination. Samples will be delivered to the laboratory under chain of custody for analysis at the end of each weekly sampling round (see Gantt chart for further details). Equipment will be cleaned between sites and surveyors will avoid using survey equipment known to contain PFAS (e.g., Gore-Tex, waterproof notebooks, markers) to avoid sample contamination.
- Surface water and sediment samples will be analysed by our subcontractors RPS (see Section 2) for the PFAS suites as detailed in **Attachment 1** (including limits of detection). We can offer all the specified PFAS analytes plus a standard suite including other PFAS of potential interest. Samples will also be analysed for Total Organic Carbon (TOC) and Moisture Content (to allow reporting as %dry weight).
- We have allowed for an additional 6no QA (Quality Assurance) water samples and 2no duplicate sediment samples, comprising 2no trip blanks, 1no water sampling equipment blanks, 1no sediment sampling equipment blanks, 2no duplicate water samples and 2no duplicate sediment samples.
- Our fee proposal allows for one sampling visit to each of a total of 30 individual sites, (see appended Gantt chart in Section 3 of the specification).
- Our fee proposal assumes analysis of total 36 water and 32 sediment samples (including QA).
- The laboratory offers a minimum 25-day turnaround for sediment samples and 10-day turnaround for waters.
- We will provide a weekly email progress report to notify you of sampling progress.

**Task 3 Deliverables - Weekly monitoring progress updates and laboratory results**

**Task 4- Draft Report**

Our report will include a brief factual narrative of the sampling undertaken, including field observations and sampling locations. Following receipt of monitoring results from the laboratory, we will collate the data and provide simple graphical interpretation of the monitoring results with an accompanying narrative. This will include, as appropriate, observations on the limitations of our scientific understanding of PFAS, observations relevant to the specific PFAS identified (including targeted PFAS), based on our wider experience. The appropriate graphical output will depend on the data range, but this may include box and whisker plots, bar graphs and/or line graphs. The draft report will be issued to you for comment.

**Task 4 Deliverables – Draft report detailing monitoring results for each location**

**Task 5- Final Report**

Following receipt of one set of comments from you, we will make any amendments or changes required and issue the final report.

**Task 5 Deliverables – Final report Task**

**6- Project close-out**

Following submission of the final report and your subsequent approval, a final close-out meeting will be scheduled to discuss the project outcomes, celebrate achievements, lessons learnt and feedback from third parties (e.g., subcontractors).

**Task 6 Deliverables – Meeting minutes**

See Section 6 for discussion of our approach to sustainability.

**2. Project Management (inc Project plan). A project plan may be provided as an attachment with your reply (delete if not required) (Tender Response Requirement E2)**

**Project examples: successful similar projects**

**RDE129 Airports PFAS Monitoring Project (Environment Agency 2022-2023)** – Jacobs undertook two rounds of monitoring to collect and analyse surface water samples for PFAS upstream and downstream from 8 airports located around England. The work was undertaken on a very tight timescale in winter, was completed safely, and to programme. The project demonstrates our ability to work with you to meet demanding schedules and collect high quality samples for PFAS analysis. Similar core team to this project.

**PFAS Risk Screening Project Phases 1-4 (Environment Agency 2020- ongoing)** - We have been working with you since early 2020 through several phases developing a framework and an innovative GIS-based tool to aid the risk prioritisation of sites with the potential to be sources of PFAS contamination in the water environment. As part of this work, we undertook PFAS sampling at 27 landfills across England, which included groundwater, leachate and surface water sampling. Due to the low detection limits required for PFAS, we developed a sampling strategy to minimise the potential for cross contamination. We also provided interpretation of the sampling results, with feedback praising the clear and concise presentation of the complex datasets. Similar core team to this project.

**Heath Lake SSSI Restoration project (Thames Water 2020-2021)** - Sediment and water sampling from 20+

stations around a lake, ahead of desilting and enhancement works. The same team as identified for this project completed sediment chemistry monitoring (including PFOS and PFAS sampling) from a boat, using a small vanveen grab to sample surface sediments. Water and sediment quality was successfully reported and used to form a baseline for analysis of restoration options for the site.

**Project management and Quality Assurance** - The project will be managed utilising our global Business Management System (BMS) – a set of processes, procedures, systems and tools that provides consistent project delivery and execution to industry and client specifications. The BMS is certified by Lloyd’s Register Quality Assurance (LRQA) to ISO 9001:2015 Quality Management System standards, and as such drives us to maintain exceptional delivery. Within the BMS, there are a number of contract management processes, including Proactive Project Management, Risk and Mitigation Planning (RAMP) tool and Project Execution Planning. Key project and business risks and mitigation are detailed in Section 4. Our Project Manager (PM) for the delivery of this commission will be David Haines who is experienced with working on EA R&D and PFAS projects.

Clear lines of communication are essential for effective project delivery. David will be responsible for reporting to you (including weekly progress update emails, fortnightly project team calls, and formal monthly progress reports), managing the team, coordinating meeting arrangements and delivering the project. Jane Thrasher will be responsible for Technical Delivery and will be the key point of contact for technical matters. Our team will establish regular and effective liaison with you adopting a collaborative, proactive project management approach – ensuring the early identification of risks, open and honest discussion on issues and a ‘one-team’ approach to Change Management.

**Sub-contractors**-The sub-contractor RPS Ltd has been selected from Jacobs approved suppliers list and will be contracted through our rigorous procurement system. They will be managed by David Haines our PM for the commission. Jacobs subcontracted RPS for POPs analysis (including PFAS) for the Environment Agency PFAS Risk Screening Project Phase 3 Task 5. RPS are also responsible for extensive PFAS monitoring under the UKWIR Chemical Investigations Program (CIP).

**Programme** - A Gantt chart detailing the programme is appended to this proposal as **Attachment 2**. The project risks are detailed in the risk register in Section 4 of this proposal. Our programme reflects the revised programme requirements in Clarification dated 19/9/23, extending the working programme to 15<sup>th</sup> March. Our programme includes some risk contingency, and we will utilise best endeavours to deliver ahead of programme if risks are not realised.

**3. Proposed Staff who will do the work and briefly state previous relevant qualification/experience. Contractor’s experience of undertaking similar projects and accreditations (if requested). (Tender Response Requirement E3)**

Our project team provides expertise with a specific focus on surface water and sediment sampling and PFAS. The core members of the team have been chosen based on their knowledge and expertise.

**Experience and capability**- A summary of the key team members and the skills and experience they will bring to this commission is provided in the table below.

Name	Qualifications	Role	Summary of Experience relevant to commission
------	----------------	------	--

**Team Structure-** the team structure is shown in **Attachment 3**. We will use our workforce planning tools to ensure we know availability and capacity of each team member (including annual leave) during the project so that peak demands are managed. Should key staff be unavailable, such as in the event of illness or holiday then David will work with the resource leads in our team to identify alternatives to minimise delivery risks. Our teams work as a national resource, and this allows us to adapt quickly and mobilise appropriate resources a short notice. When the Project Manager is unavailable (e.g., annual leave) then Jane Thrasher (Technica Delivery Manager) will take responsibility for reporting to you.

**Sub-contractors-**The sub-contractor RPS Ltd has been selected from Jacobs approved suppliers list, able to meet the requirements for PFAS analysis and meet detection limits.

#### 4. Risk

**Note:** *This section is to be used to detail any risks relevant to the project i.e. Programme deliverable dates, data, consultees etc. (Tender Response Requirement E4)*

Relevant risks to the project will be discussed and reviewed during the start-up meeting and regularly reviewed and updated during the project. The key risk relevant to the project and mitigation measures are set out in the table below. Risks have been categorised as Programme, Quality, Technical or Health, Safety & Environment (HSE), although some fall into more than one category. The risks and mitigation detailed below have been developed based on our experience of delivering similar projects.

Risk	Comments	Allocation of Risk	Mitigation
<b>Programme</b>			
Delays resulting from incidents or near misses.	All parties will cooperate to minimise delays, however all near misses will be fully investigated.	Contractor (Jacobs)	Suitably qualified and experienced team, with additional technical support available.
Non-availability of key staff through illness etc.	Anticipated absences will be managed by the Contractor's Project Manager.	Contractor	Careful planning as part of bid to ensure sensible resource allocation and availability. Project Manager will work with the resource leads to identify alternatives from the large experienced national team to minimise delivery risks.
Laboratory capacity or turnaround times impact programme or laboratory becomes unavailable.	Results not received in time causes delay to report.	Contractor	Suitably experienced staff will liaise with the laboratory on a regular basis to ensure all samples are received by the laboratory and are scheduled correctly and prioritised. 25 working day turnaround time for sediment analysis (including Xmas shutdown) acknowledged in programme.
Poor laboratory performance	PFAS analysis is challenging and prone to impacts from cross-contamination which can be difficult to spot without expert knowledge of expected results	Contractor	We have selected a laboratory with substantial experience in PFAS analysis that we have worked with before with a good track record in understanding challenges of PFAS analysis. Our programme allows for samples to be analysed in weekly batches; data will be checked by an expert when received.
Adverse weather delays or halts work.	Site works are likely to be undertaken in winter, when inclement weather could occur.	Contractor/ Employer	Site works programme includes one week of contingency for adverse weather delays. Halt site works if weather conditions are not safe to travel or work in or unsuitable for sampling. Communicate to Client actions taken, discuss the impact on the overall

			programme and advise on amendments to the programme which may be required. Note that completion of sediment sampling is critical path in programme due to time required for laboratory analysis.
Further variants of Covid19 resulting in further restrictions	Staff may be required to work from home.	Contractor/ Employer	Plan sampling visits in accordance with government guidance available at the time. All staff set up for hybrid working for desk-based tasks.
<b>Quality</b>			
The staff supplied by the Contractor are not sufficiently qualified or experienced to complete the work	Contractor's responsibility	Contractor	Staff selected have experience of water quality sampling, including PFAS. Technical support will be available to provide advice as required.
The deliverables are not of a suitable standard.	The Contractor will prepare documents to a suitable standard. Document formats and templates will be discussed with the Employer before commencing work.	Contractor	Team selected on basis of relevant experience, including specific experience regarding PFAS.
<b>Technical</b>			
Failure of Contractor to obtain access to proposed surface water locations.	Related to availability of suitable launch sites and other access constraints (including need for nav licenses, etc.)	Contractor	Advance planning of surface water sampling locations for suitable launch sites, including additional 'contingency' locations should preferred sites be found to be unsuitable when the team arrive on site.

Not sufficient soft sediment to sample.	Proposed sample locations may be in areas without deposition / or scour.	Contractor	Seek alternative sediment sample location within vicinity of proposed location, using professional experience to locate likely deposition areas. Record GPS location of revised sampling point. Inform Employer of any changes required to sample locations.
Lost samples / missing containers	Samples or containers may be lost or broken in transit between sampling location and lab	Contractor	Sampling team to collect containers / deliver samples directly to laboratory in Bedford rather than using couriers. Liaise with lab to ensure suitable packaging materials are provided and containers can be securely stowed.
<b>Health, Safety &amp; Environment (HSE)</b>			
Risk of Drowning or other injury	Working in and over water including boat launch, working from boat, on slopes above water. All Jacobs personnel undertaking the sampling works will have completed the working in water training and have experience working in similar conditions.	Contractor	Risk assessment and Safe System of Work (SSoW) to be developed prior to undertaking sampling. No lone working will be undertaken. Dynamic risk assessment will be undertaken on reaching sampling point and reassessment of risks. If deemed unsafe the location will not be sampled. Inform Employer of any changes required to sample locations or sampling visits.
General outdoor working (weather conditions)	Slips trips and falls, exposure to cold weather.	Contractor	Sampling team to check weather forecast ahead of sampling work. Where weather conditions deteriorate and increase the risk of incidents (e.g., heavy rain, strong wind, snow), consideration shall be given to abandoning the monitoring visit. Appropriate clothing for weather conditions shall be worn and adequate breaks will be taken if weather is particularly wet or cold.
Manual handling, including heavy items such as sample cool boxes	Staff must complete manual handling training and shall use manual handling best practice at all times.	Contractor	Loads will be assessed to ensure that they are not excessive or awkward, and split into smaller loads where necessary. Sampling staff to make sure the path of travel to the vehicle is clear prior to the lift and attempt to minimise the distance of this.
Contact with pathogens e.g., tetanus, Leptospirosis, Weil's Disease.	Avoid dermal contact with potentially suspect material and animals.	Contractor	Clean and cover any wounds prior to site walkover. Wear appropriate PPE. Wash hands thoroughly after works and prior to eating. Sampling staff to be aware and act upon symptoms of Leptospirosis (flu like headache and chills, vomiting, rash).

**5. Health & Safety (only complete if requested in defined evaluation criteria) (Tender Response Requirement E6)**

#### **Preliminary identified HSE risks associated with the works identified in the risk register in Section 4.**

We have a culture where health, safety and wellbeing excellence are our priority, and we have demonstrated this in our previous work with you. Our approach detailed in Section 1 is focussed on identifying suitable sampling locations which can be accessed safely as well as meeting the technical requirements. This includes identification of 'back-up' locations should Point of Work Risk Assessment conclude that proposed 'primary' locations are unsuitable.

Our behavioural health, safety, and wellbeing program, BeyondZero, drives our culture of caring, where our people are empowered to take action and change the intentions and behaviours of themselves and those around us to make the projects, offices, homes and communities healthier and safer places for everyone.

HSE Plans- As part of the project start up a Health, Safety and Environmental Plan will be prepared. This will include details of the key Jacobs/subcontractor personnel, project scope and fieldwork to be carried out. It will define the actions required to:

- protect the health, safety and welfare of our employees and subcontractors;
- protect third parties and the environment from hazards arising from our fieldwork activities;
- meet any contractual obligations for health, safety and environmental protection;
- specify any project specific HSE training required;
- define HSE monitoring activities;
- define incident reporting requirements and project HSE performance reporting requirements;
- define how we will manage HSE of our subcontractors; and
- define any project-specific vehicle safety issues and control measures.

We have identified a dedicated Project Health and Safety Adviser who is experienced with PFAS monitoring, aquatic work, and Environment Agency projects. The Jacobs Project Manager will ensure that the Project HSE Plan is completed and communicated to Jacobs personnel prior to their mobilisation to the field. Survey sites will be selected that can be safely accessed by the survey team, whether that be from the bank or by boat. The team will work under Jacobs Safe Work Instruction for Working In Water. This document outlines the appropriate training, personal protective equipment and best practice guidance for working in and near water. It includes the requirement to, prior to commencing site work, identify an emergency action plan at each site, that sets out the steps required should the rescue of a team member be necessary.

Our survey staff are Working in Water trained (DEFRA Lvl2), RYA Powerboat trained and have undertaken manual handling and chemical awareness (COSHH) training. Surveyors are experienced in sediment and water quality sampling, handling and processing of samples ahead of laboratory analysis. All sample collection will be undertaken under a Safe System of Works (SSoW) and Point of Work Risk Assessment (PoWRA).

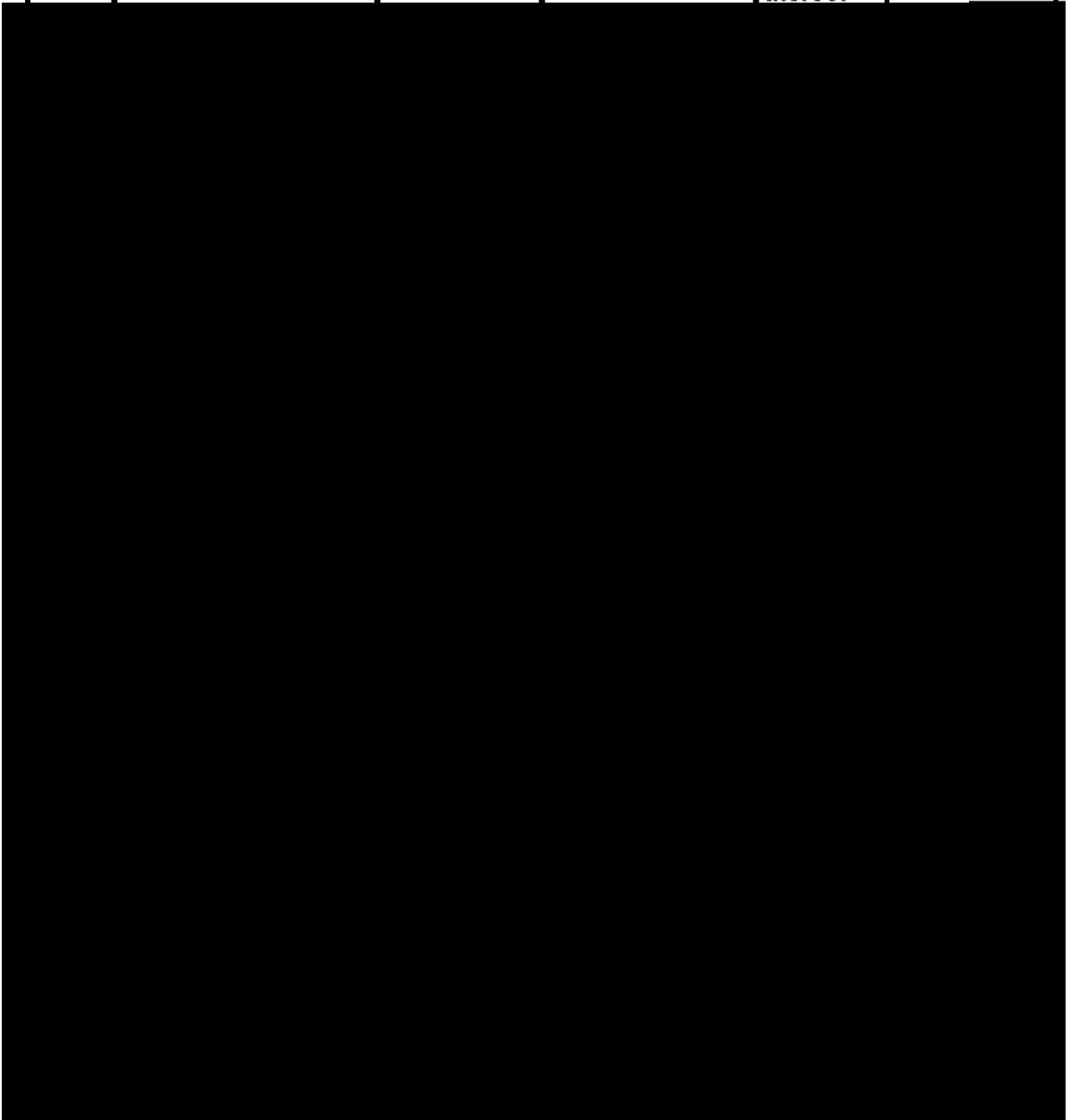
#### **6. Sustainability (only complete if requested in defined evaluation criteria) (Tender Response Requirement E5)**

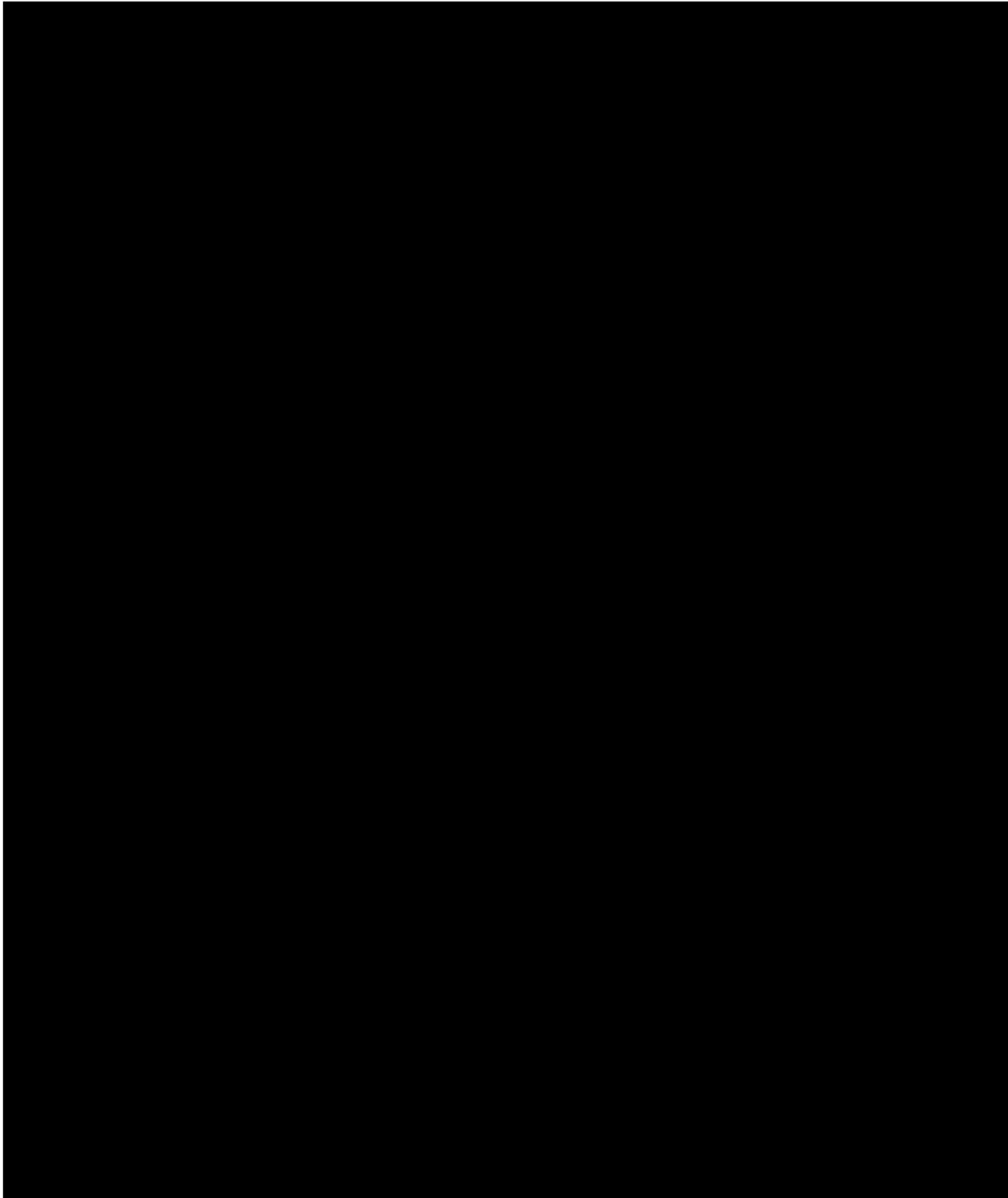
Sustainability at Jacobs entails ensuring long-term business resilience and success, and positively contributing toward the global economy, society and the environment. In order to maximise impact and stakeholder value, and delivering a positive, fair and inclusive future for all in partnership with our clients. PlanBeyond 2.0 is Jacobs' sustainable business strategy, which is aligned with the United Nations Sustainable Development Goals. Value Plus is Jacobs' process to generate and quantify ideas that provide improved execution and delivery of our projects and an economic, environmental or social return on investment to our clients. All sustainability ideas that are incorporated into the project shall be added to the Jacobs Value Plus system for tracking. Within Jacobs Safe Work Travel Instruction, it is detailed that public transport is the first option for business travel on all projects. Driving is permitted only after a thorough assessment has been conducted on the alternatives and these have been rejected as impractical. Driving on this project will be limited as far as practicable. Jacobs utilises the Go Smart travel planning platform, for estimated associated internal carbon pricing of travel and to gain appropriate travel approval. Go Smart is designed to ensure the safety, security, and sustainability of all employees' travel. The survey programme will be designed in such a way as to minimise travel between sites, be that via boat or vehicle. The survey team will 'deploy local', reducing the requirement for overnight stays and maximising the available day length during winter sampling. Where appropriate boat work could be undertaken using an electric, rather than petrol outboard.

**7. Cost Proposal**

*Please use day rates, including any applicable discounts, as agreed under the framework contract. A full cost schedule may be attached to support the costs summarised below.*

<b>Task No.</b>	<b>Name</b>	<b>Framework grade</b>	<b>Day rate</b>	<b>No. of Days or part thereof</b>	<b>Cost</b>
-----------------	-------------	------------------------	-----------------	------------------------------------	-------------





By signing this form *Jacobs UK Ltd* agree to provide the services stated above for the cost set out in your Cost Proposal and in accordance with the Research, Development & Evidence Framework 1Conditions of Contract.

**Contractor Project Manager:**

[Redacted Signature]

<b>Signature:</b>	
<b>Date:</b>	27/09/2023

### 3.0 Order Form

3.1 The following document is to be completed by the Contracting Authority and sent to the Contractor for counter signature to form a Call-Off contract.

<b>Research, Development and Evidence Framework 2 ORDER FORM</b>
<b>To be completed by Contracting Authority Project Manager and sent to Contractor for countersignature. PLEASE INCLUDE ENTIRE DOCUMENT</b>
<b>Project title:</b> <b>Call off Reference:</b> <b>Atamis project ref (if applicable):</b> <b>Date:</b>

Authority\_

Supplier\_

[Contracting Authority guidance: This Order Form, when completed and executed by both Parties, forms a Call-Off Contract. A Call-Off Contract can be completed and executed using an equivalent document or electronic purchase order system.

#### APPLICABLE FRAMEWORK CONTRACT

This Order Form is for the provision of the Call-Off Deliverables and dated [Insert date of issue]. It's issued under the Research Development & Evidence Framework Agreement reference 30210 for the provision of [Insert name of project].

CALL-OFF SUB-LOT:

CALL-OFF INCORPORATED TERMS The following documents are incorporated into this Call-Off Contract. Where numbers are missing we are not using those schedules. If the documents conflict, the following order of precedence applies:

1. Defra Framework Terms and Conditions;
2. Request for Proposal;
3. Proposal;

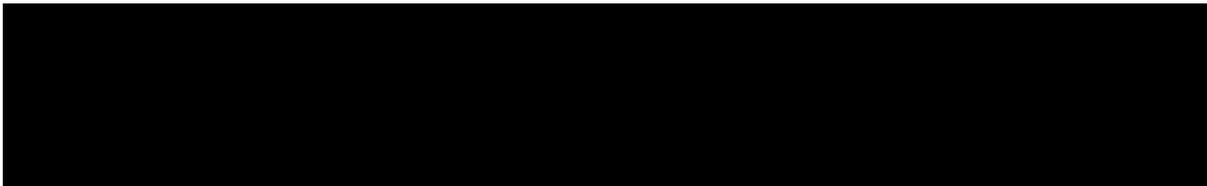
No other Supplier terms are part of the Call-Off Contract. That includes any terms written on the back of, added to this Order Form, or presented at the time of delivery.

CALL-OFF CONTRACT START DATE:

CALL-OFF CONTRACT EXPIRY DATE:

CALL-OFF PERIOD:

For and on behalf of the Supplier: For and on behalf of the Buyer: Signature:  
Signature:



## Attachment 1: RDE108 PFAS Enhanced Monitoring Cam and Ely Ouse - Jacobs UK Ltd - PFAS Suite

PFAS Reporting Name	Short Name	CAS	Surface Waters LOD (ng/L)	Surface Waters Units	Sediment LOD (µg/kg)	Sediment Units
perfluoro-n-butanoic acid (PFBA)	PFBA	375-22-4	10	ng/L	0.1	µg/kg AR
perfluoro-n-pentanoic acid (PFPeA)	PFPeA	2706-90-3	2	ng/L	0.1	µg/kg AR
perfluoro-n-hexanoic acid (PFHxA)	PFHxA	307-24-4	2	ng/L	0.1	µg/kg AR
perfluoro-n-heptanoic acid (PFHpA)	PFHpA	375-85-9	1	ng/L	0.1	µg/kg AR
perfluoro-n-octanoic acid (PFOA)	PFOA	335-67-1	2	ng/L	0.1	µg/kg AR
perfluoro-n-nonanoic acid (PFNA)	PFNA	375-95-1	1	ng/L	0.1	µg/kg AR
perfluoro-n-decanoic acid (PFDA)	PFDA	335-76-2	2	ng/L	0.1	µg/kg AR
perfluoro-n-undecanoic acid (PFUnDA)	PFUnDA	2058-94-8	2	ng/L	0.1	µg/kg AR
perfluoro-n-dodecanoic acid (PFDoDA)	PFDoDA	307-55-1	2	ng/L	0.1	µg/kg AR
perfluoro-n-tridecanoic acid (PFTrDA)	PFTrDA	72629-94-8	2	ng/L	0.5	µg/kg AR
perfluoro-n-tetradecanoic acid (PFTeDA)	PFTeDA	376-06-7	5	ng/L	0.5	µg/kg AR
perfluoro-n-hexadecanoic acid (PFHxDA)	PFHxDA	67905-19-5	5	ng/L	0.5	µg/kg AR
perfluoro-n-octadecanoic acid (PFocDA)	PFocDA	16517-11-6	10	ng/L	0.5	µg/kg AR
perfluoro-1-butanedisulfonic acid (PFBS)	PFBS	375-73-5	1	ng/L	0.1	µg/kg AR
perfluoro-1-pentadisulfonic acid (PFPeS)	PFPeS	2706-91-4	2	ng/L	0.1	µg/kg AR
perfluoro-1-hexadisulfonic acid (PFHxS)	PFHxS	355-46-4	1	ng/L	0.1	µg/kg AR
perfluoro-1-heptadisulfonic acid (PFHpS)	PFHpS	375-92-8	1	ng/L	0.1	µg/kg AR
perfluoro-1-octadisulfonic acid (L-PFOS)	L-PFOS	1763-23-1	2	ng/L	0.1	µg/kg AR
perfluoro-1-octadisulfonic acid (br-PFOS)	br-PFOS		2	ng/L	0.1	µg/kg AR
perfluoro-1-octadisulfonic acid (PFOS Sum L and br)	PFOS Sum L and br		4	ng/L	0.2	µg/kg AR
perfluoro-1-nonadisulfonic acid (PFNS)	PFNS	68259-12-1	2	ng/L	0.1	µg/kg AR
perfluoro-1-decadisulfonic acid (PFDS)	PFDS	335-77-3	5	ng/L	0.1	µg/kg AR
perfluoro-1-undecadisulfonic acid (PFUnDS)	PFUnDS	749786-16-1	5	ng/L	0.1	µg/kg AR
perfluoro-1-dodecadisulfonic acid (PFDoDS)	PFDoDS	79780-39-5	5	ng/L	0.5	µg/kg AR
perfluoro-1-tridecadisulfonic acid (PFTrDS)	PFTrDS	791563-89-8	5	ng/L	0.5	µg/kg AR
perfluoro-4-ethylcyclohexanesulfonic acid (PFECBS)	PFECBS	646-83-3	2	ng/L	0.1	µg/kg AR
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA/GenX)	HFPO-DA/GenX	13252-13-6	2	ng/L	0.1	µg/kg AR
perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TA)	HFPO-TA	13252-14-7	1	ng/L	0.1	µg/kg AR
dodecafluoro-3H-4,8-dioxanonanoic acid (DONA)	DONA	919005-14-4	1	ng/L	0.1	µg/kg AR
perfluoro-4-oxapentanoic acid (PFMOPA)	PFMOPA	377-73-1	2	ng/L	0.5	µg/kg AR
perfluoro-3,6-dioxahexanoic acid (NFDHA)	NFDHA	151772-58-6	2	ng/L	0.1	µg/kg AR
perfluoro-5-oxahexanoic acid (PFMOBA)	PFMOBA	863090-89-5	2	ng/L	0.5	µg/kg AR
3-perfluoropropyl propanoic acid (3:3 FTCA)	3:3 FTCA	356-02-5	2	ng/L	0.5	µg/kg AR
3-perfluoropentyl propanoic acid (5:3 FTCA)	5:3 FTCA	914637-49-3	5	ng/L	0.5	µg/kg AR
3-perfluoroheptyl propanoic acid (7:3 FTCA)	7:3 FTCA	812-70-4	2	ng/L	0.5	µg/kg AR
perfluoro-(2-ethoxyethane)-sulfonic acid (PFEEESA)	PFEEESA	113507-82-7	1	ng/L	0.1	µg/kg AR
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	F-53B Major	756426-58-1	1	ng/L	0.1	µg/kg AR
11-chloroheptafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	F-53B Minor	763051-92-9	2	ng/L	0.1	µg/kg AR
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTSA)	4:2 FTSA	757124-72-4	2	ng/L	0.1	µg/kg AR
1H,1H,2H,2H-perfluorooctane sulfonic acid (6:2 FTSA)	6:2 FTSA	27619-97-2	1	ng/L	0.1	µg/kg AR
1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTSA)	8:2 FTSA	39108-34-4	2	ng/L	0.1	µg/kg AR
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTSA)	10:2 FTSA	120226-60-0	5	ng/L	0.5	µg/kg AR
perfluoro-1-butanedisulfonamide (FBSA)	FBSA	30334-69-1	5	ng/L	0.5	µg/kg AR
perfluoro-1-hexadisulfonamide (FHxSA)	FHxSA	41997-13-1	5	ng/L	0.5	µg/kg AR
perfluoro-1-octadisulfonamide (PFOSA)	PFOSA	754-91-6	2	ng/L	0.1	µg/kg AR
N-(3-dimethylaminopropan-1-yl)perfluoro-1-hexadisulfonamide (N-AP-FHxSA)	N-AP-FHxSA	50598-28-2	5	ng/L	0.5	µg/kg AR



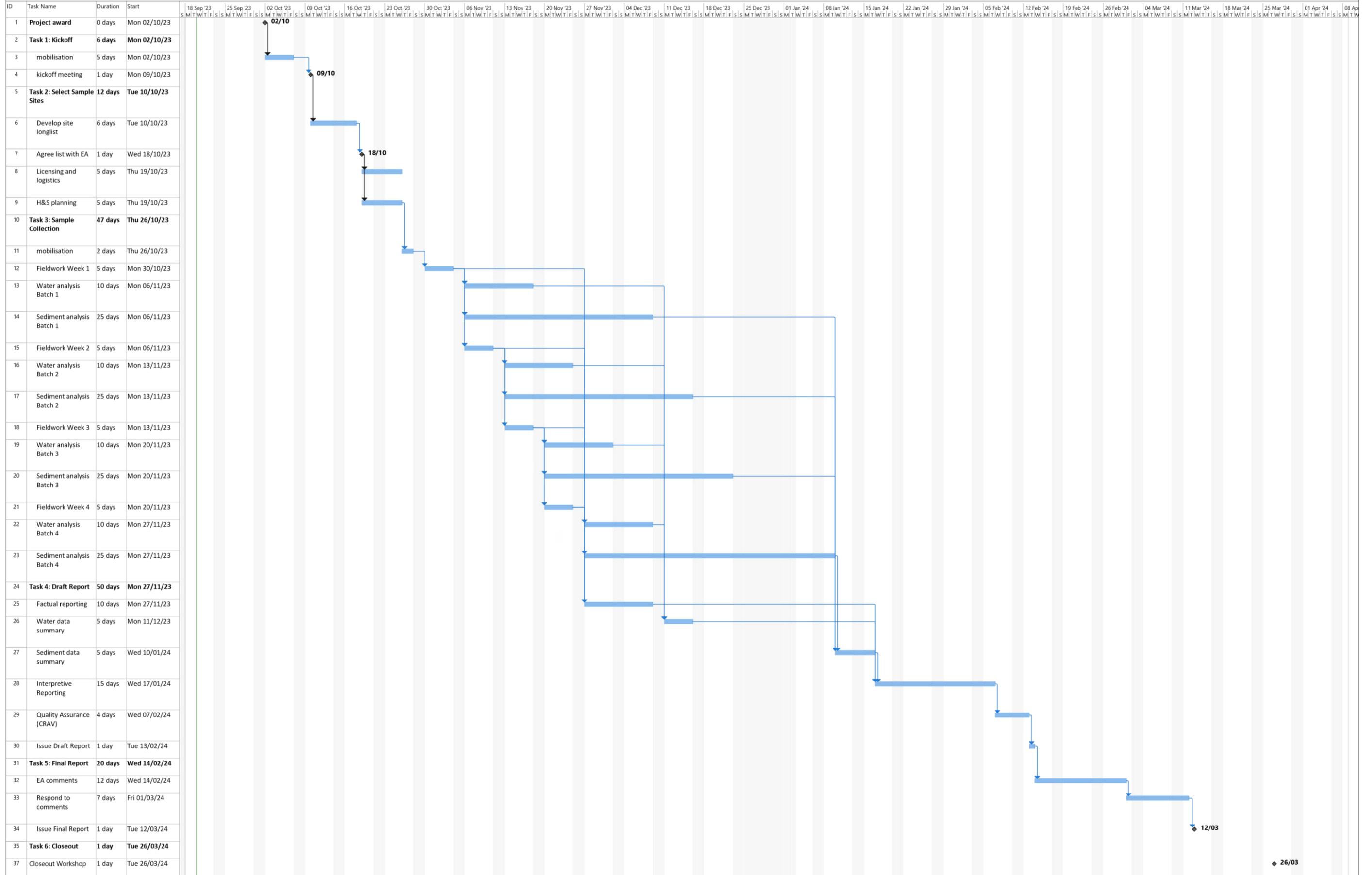
N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	N-MeFOSAA	2355-31-9	2	ng/L	0.1	µg/kg AR
N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	N-EtFOSAA	2991-50-6	2	ng/L	0.1	µg/kg AR
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	N-MeFOSA	31506-32-8	5	ng/L	0.5	µg/kg AR
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	N-EtFOSA	4151-50-2	5	ng/L	0.5	µg/kg AR
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	MeFOSE	24448-09-7	5	ng/L	0.5	µg/kg AR
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	EtFOSE	1691-99-2	5	ng/L	0.5	µg/kg AR
carboxyMeDiMe-3-[[[(tridecaFlOct)sulf]amino]prop amm hydrox (6:2 FTAB)	6:2 FTAB	34455-29-3	5	ng/L	0.5	µg/kg AR
bis(1H,1H,2H,2H-perfluorooctyl) phosphate (6:2 diPAP)	6:2 diPAP	57677-95-9	50	ng/L	0.1	µg/kg AR

EA required determinand surface water and sediment

EA required determinand surface water only

EA required determinand sediment only

Other PFAS determinand included within suite



Project: sediment programme r  
Date: Wed 20/09/23

Legend: Task Split, Milestone Summary, Project Summary Inactive Task, Inactive Milestone Summary, Manual Task Duration-only, Manual Summary Rollup Manual Summary, Start-only Finish-only, External Tasks External Milestone, Deadline Progress, Manual Progress

