

Request for Quotation

North Thames Estuary and Marshes Terrestrial Invertebrate survey.

Issued:

31st January 2024

Request for Quotation

You are invited to submit a quotation for the requirement described in the specification at Section 2. Please confirm by email, receipt of these documents and whether you intend to submit a quote or not.

Your response and quotation should be returned to the following email addresses:

Email: Jonathan.bustard@naturalengland.org.uk

CC: ThamesEstuary@naturalengland.org.uk

by: 17:00 BST Wednesday 14th February 2024

Please include the name of the quotation and ‘Final Submission’ in the subject field to make it clear that it is your response.

Contact Details and Timetable

Jonathan Bustard will be your contact for any questions linked to the content of the quote or the process. Please submit any clarification questions to Jonathan.bustard@naturalengland.org.uk.

Action	Date
Date of issue of RFQ	Wednesday 31st January 2024
Deadline for clarifications questions	Wednesday 7 th February 2024
Deadline for receipt of Quotation	Wednesday 14 th February 2024
Intended date of Contract Award	Thursday 15 th February 2024
Intended Contract Start Date	Friday 1 st April 2024
Intended Contract End Date	Friday 20 th December 2024

Section 1: General Information

Glossary

Unless the context otherwise requires, the following words and expressions used within this Request for Quotation shall have the following meanings (to be interpreted in the singular or plural as the context requires):

“Authority”	means Natural England who is the Contracting Authority.
“Contract”	means the contract to be entered into by the Authority and the successful supplier.
“Response”	means the information submitted by a supplier in response to the RFQ.
“RFQ”	means this Request for Quotation and all related documents published by the Authority and made available to suppliers.

Conditions applying to the RFQ

You should examine your Response and related documents ensuring it is complete and in accordance with the stated instructions prior to submission.

Your Response must contain sufficient information to enable the Authority to evaluate it fairly and effectively. You should ensure that you have prepared your Response fully and accurately and that prices quoted are arithmetically correct for the units stated.

By submitting a Response, you, the supplier, are deemed to accept the terms and conditions provided in the RFQ. Confirmation of this is required in Annex 2.

Failure to comply with the instructions set out in the RFQ may result in the supplier’s exclusion from this quotation process.

Acceptance of Quotations

By issuing this RFQ the Authority does not bind itself to accept any quotation and reserves the right not to award a contract to any supplier who submits a quotation.

Costs

The Authority will not reimburse you for any costs and expenses which you incur preparing and submitting your quotation, even if the Authority amends or terminates the procurement process.

Self-Declaration and Mandatory Requirements

The RFQ includes a self-declaration response (Annex 1) which covers basic information about the supplier, as well as any grounds for exclusion. If you do not comply with them, your quotation will not be evaluated.

Any mandatory requirements will be set out in Section 2 (Specification of Requirements). If you do not comply with them, your quotation will not be evaluated.

Clarifications

Any request for clarification regarding the RFQ and supporting documentation must be submitted via email no later than the deadline for clarifications set out in the Timetable. The Authority shall be under no obligation to respond to queries raised after the clarification deadline.

The Authority will respond to all reasonable clarifications as soon as possible but cannot guarantee a minimum response time. The Authority will publish all clarifications and its

responses to all suppliers via email unless deemed commercially sensitive. If a supplier believes that a request for clarification is commercially sensitive, it should clearly state this when submitting the clarification request. However, if the Authority considers either that:

- the clarification and response are not commercially sensitive; and
- all suppliers may benefit from its disclosure,

then the Authority will notify the supplier (via email), and the supplier will have an opportunity to withdraw the request for clarification by sending a further message requesting the withdrawal of the clarification request. If not withdrawn by the supplier within 2 working days of the Authority's notification, the Authority may publish the clarification request and its response to all suppliers and the Authority shall not be liable to the supplier for any consequences of such publication.

The Authority reserves the right to seek clarification of any aspect of a quotation and/or provide additional information during the evaluation phase to carry out a fair evaluation. Where the Authority seeks clarification on any aspect of the quotation, the supplier must respond within the timeframe requested by the Authority.

Amendments

The Authority may amend the RFQ at any time prior to the deadline for receipt. If it amends the RFQ the Authority will notify you via email. Suppliers may modify their quotation prior to the deadline for Responses. No Responses may be modified after the deadline for Responses. Suppliers may withdraw their quotations at any time by submitting a notice via email to the named contact.

Conditions of Contract

The Authority's Standard Goods and Services terms and conditions at [Procurement at Natural England - Natural England - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/procurement-at-natural-england) will be included in any contract awarded as a result of this quotation process. The Authority will not accept any changes to these terms and conditions proposed by a supplier. Suppliers should note that the quotation provided by the successful bidder will form part of the Contract.

Prices

Prices must be submitted in £ sterling, **exclusive of VAT**.

Disclosure

All Central Government Departments, their Executive Agencies and Non-Departmental Public Bodies are subject to control and reporting within Government. In particular, they report to the Cabinet Office and HM Treasury for all expenditure. Further the Cabinet Office has a cross-Government role delivering overall Government policy on public procurement, including ensuring value for money and related aspects of good procurement practice. For these purposes, the Authority may disclose within Government any details contained in your quotation. The information will not be disclosed outside Government during the procurement.

In addition, the Authority is subject to the Freedom of Information Act 2000 and the Environmental Information Regulations 2004, which provide a public right of access to information held by public bodies. In accordance with these two statutes, the Authority may be required to disclose information contained in your quotation to any person who submits a request for information pursuant to those statutes.

Further to the Government's transparency agenda, all UK Government organisations must advertise on Contract Finder in accordance with the following publication thresholds:

- Central Contracting Authority's: £12,000
- Sub Central Contracting Authority's and NHS Trusts: £30,000

For the purpose of this RFQ the Authority is classified as a Central Contracting Authority with a publication threshold of £12,000 inclusive of VAT.

If this opportunity is advertised via Contracts Finder, we are obliged to publish details of the awarded contract including who has won the contract, the contract value, and indicate whether the winning supplier is a small and medium-sized enterprise ("SMEs") or voluntary organisation or charity. A copy of the contract must also be published with confidential information redacted. By submitting a Response, you consent to these terms as part of the procurement.

Disclaimers

Whilst the information in this RFQ and any supporting information referred to herein or provided to you by the Authority have been prepared in good faith the Authority does not warrant that this information is comprehensive or that it has been independently verified.

The Authority does not:

- make any representation or warranty (express or implied) as to the accuracy, reasonableness or completeness of the RFQ;
- accept any liability for the information contained in the RFQ or for the fairness, accuracy or completeness of that information; or
- accept any liability for any loss or damage (other than in respect of fraudulent misrepresentation or any other liability which cannot lawfully be excluded) arising as a result of reliance on such information or any subsequent communication.

Any supplier considering entering into contractual relationships with the Authority following receipt of the RFQ should make its own investigations and independent assessment of the Authority and its requirements for the goods and/or services and should seek its own professional financial and legal advice.

Protection of Personal Data

In order to comply with the General Data Protection Regulations 2018 the supplier must agree to the following:

You must only process any personal data in strict accordance with instructions from the Authority.

- You must ensure that all the personal data that we disclose to you or you collect on our behalf under this agreement are kept confidential.
- You must take reasonable steps to ensure the reliability of employees who have access to personal data.
- Only employees who may be required to assist in meeting the obligations under this agreement may have access to the personal data.
- Any disclosure of personal data must be made in confidence and extend only so far as that which is specifically necessary for the purposes of this agreement.
- You must ensure that there are appropriate security measures in place to safeguard against any unauthorised access or unlawful processing or accidental loss, destruction or damage or disclosure of the personal data.
- On termination of this agreement, for whatever reason, the personal data must be returned to us promptly and safely, together with all copies in your possession or control.

General Data Protection Regulations 2018

For the purposes of the Regulations the Authority is the data processor.

The personal information that we have asked you to provide on individuals (data subjects) that will be working for you on this contract will be used in compiling the tender list and in assessing your offer. If you are unsuccessful the information will be held and destroyed within two years of the award of contracts. If you are awarded a contract, it will be retained for the duration of the contract and destroyed within seven years of the contract's expiry.

We may monitor the performance of the individuals during the execution of the contract, and the results of our monitoring, together with the information that you have provided, will be used in determining what work is allocated under the contract, and in any renewal of the contract or in the award of future contracts of a similar nature. The information will not be disclosed to anyone outside the Authority without the consent of the data subject, unless the Authority is required by law to make such disclosures.

Equality, Diversity & Inclusion (EDI)

The Authority is striving to create a diverse and inclusive working environment where every individual has equality of opportunity to progress and to apply their unique insights to making the UK a great place for living. The Service Provider is expected to respect this commitment in all dealings with Natural England staff and anyone you have contact with whilst fulfilling the contract. Suppliers are expected to;

- support Defra group to achieve its Public Sector Equality Duty as defined by the Equality Act 2010, and to support delivery of [Defra group's Equality & Diversity Strategy](#);
- meet the standards set out in the [Government's Supplier Code of Conduct](#); and
- work with Defra group to ensure equality, diversity and inclusion impacts are addressed (positive and negative) in the goods, services and works we procure, barriers are removed and opportunities realised.

Sustainable Procurement

Natural England protects and improves the environment and is committed to reducing the sustainability impacts of its activities directly and through its supply chains. We expect the Contractor to share this commitment and adopt a sound, proactive sustainable approach in keeping with the 25 year environmental plan and our commitments compliant with all applicable legislation. This includes understanding and reducing direct and indirect sustainability impacts and realising opportunities, including but not restricted to; resilience to climate change, reducing greenhouse gas emissions, water use and quality, biosecurity, resource efficiency and waste, reducing the risk of pollution, biodiversity, modern slavery and equality, diversity & inclusion, negative community impacts.

As a delivery partner, the successful contractor is expected to pursue sustainability in their operations, thereby ensuring the Authority is not contracting with a supplier whose operational outputs run contrary to its objectives. The successful contractor will need to approach the project with a focus on the entire life cycle of the project.

Conflicts of Interest

The concept of a conflict of interest includes but is not limited to any situation where an Involved Person or Relevant Body has directly or indirectly, a financial, economic or other personal interest which might be perceived to compromise their impartiality and independence in the context of the procurement procedure and/or affect the integrity of the contract award.

We expect suppliers to mitigate appropriately against any real or perceived conflict of interest through their work with government. A supplier with a position of influence gained through a

contract should not use that position to unfairly disadvantage any other supplier or reduce the potential for future competition.

Where the supplier is aware of any circumstances giving rise to a conflict of interest or has any indication that a conflict of interest exists or may arise you should inform the Authority of this as soon as possible (whether before or after they have submitted a quotation). Tenderers should remain alert to the possibility of conflicts of interest arising at all stages of the procurement and should update the Authority if any new circumstances or information arises, or there are any changes to information already provided to the Authority. Failure to do so, and/or to properly manage any conflicts of interest may result in a quotation being rejected.

Provided that it has been carried out in an open, fair and transparent manner, routine pre-market engagement carried out by the Authority should not represent a conflict of interest for the supplier.

Section 2: Specification of Requirements

Background to Natural England

Natural England's priorities are to secure a healthy natural environment; a sustainable, low-carbon economy; a thriving farming sector and a sustainable, healthy and secure food supply. Further information about Natural England can be found at: [Natural England](#).

Requirement

Natural England is seeking a contractor to complete two tasks under this contract.

Task 1 - Terrestrial Invertebrate survey.

Task 2 - To produce a report, using a Natural England template and following relevant guidance (see: [Natural England publishing standards for commissioned reports - NECR000](#)) outlining all methods and results, accompanied by all relevant output files, and other specified deliverables.

The following sections provide background to the project and further details relating to its objectives, survey methods and contract management.

1. Background information

1.1. Site details

Natural England is considering an extension to Mucking Flats and Marshes Site of Special Scientific Interest (SSSI) under Section 28C of the Wildlife and Countryside Act 1981. This survey is required to review the special interest of the existing SSSI and determine the special interest of additional areas. Mucking Flats and Marshes SSSI is a component of the Thames Estuary and Marshes Special Protection Area (SPA).

The area contains post-industrial habitats, restored landfill/quarry, flooded pits, historic grazing marsh and arable farmland. It has a riverside setting with a range of transitional habitats from the inter-tidal zone to saltmarsh, coastal grasslands, fen, scrublands and pockets of woodland. Several water bodies are also present with fringing marginal vegetation and scrub. Some areas are within active nature conservation management, but many are in private ownership. Some areas are in active operational use for which specific risks and induction requirements will be required. Further details will be provided upon contract award.

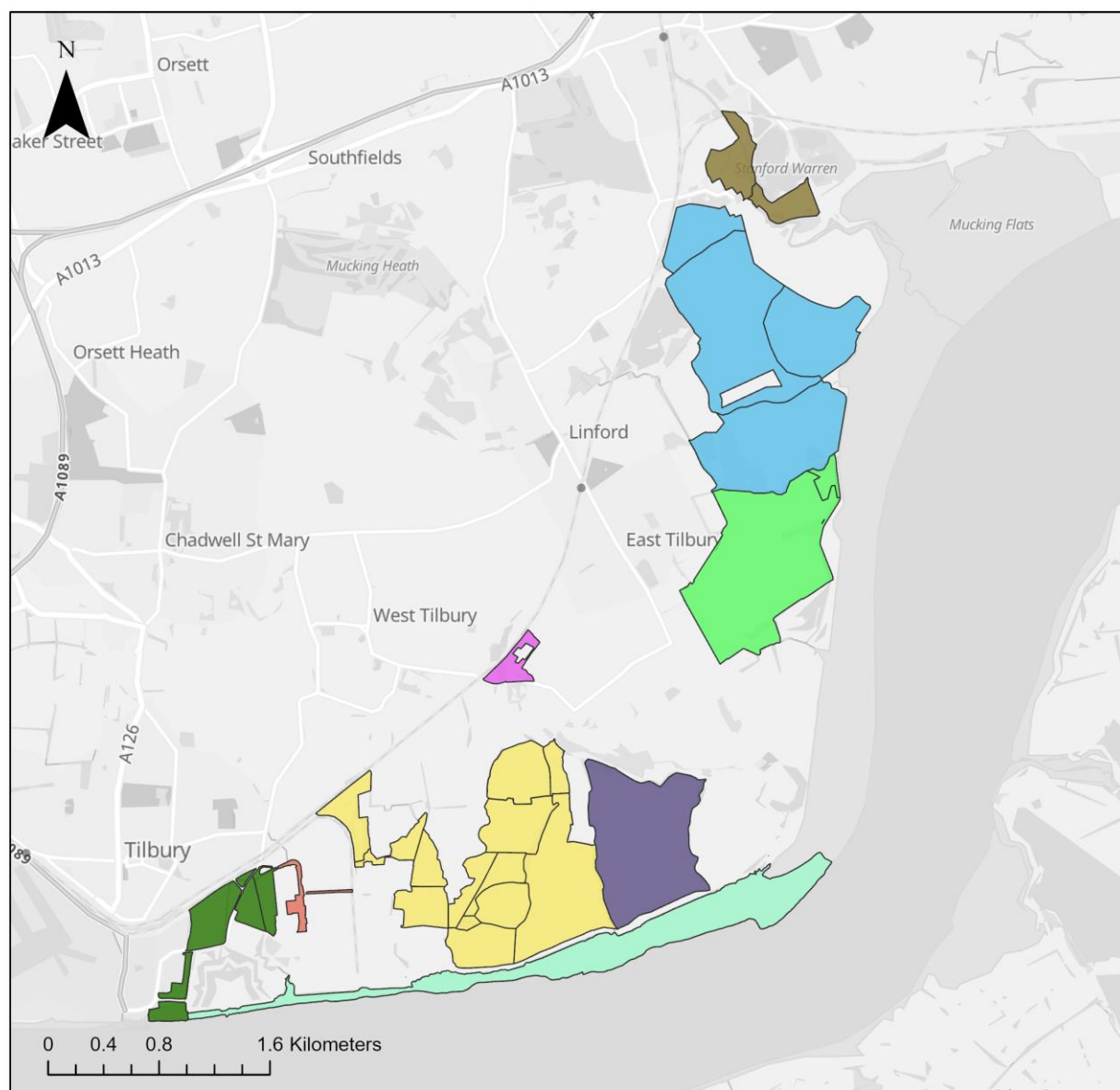
1.2. Study area

The study area (showing all compartments intended for survey) is outlined in Figure 1 overleaf. Additional notes regarding the specific areas for terrestrial invertebrate survey are provided at Annex 2. Separate maps for each survey compartment (showing sub-compartments) are also provided at Annex 3.

Figure 1. Map of the North Thames Estuary and Marshes Terrestrial Invertebrate whole survey area.



North Thames Estuary and Marshes Terrestrial Inverts 2024 Survey Compartments



- A - Mucking Wetlands
- B - Thameside Nature Park
- C - Mucking Landfill Site (Enovert) inc. Golden Gates/Gobions Lake
- D - East Tilbury Quarry (Walsh) Site
- E - Coalhouse Fort
- F - Intertidal Zone (between Coalhouse & Tilbury Forts)
- G - Ashfields & Goshems Farm
- H - DHL Landfill (LTC4) at Coalhouse Point, Bowaters Scrubland
- J - Low Street Pit & Surrounds
- K - Tilbury2 Surrounds
- L - Fields East of Coalhouse Battery
- SSSI - Mucking Flats SSSI
- SW - Sea Wall
- TFM - Tilbury Fort Marshes

Map created 30 January 2024.
Scale: 1:40,000

Map Center: 0°24'47"E
51°28'48"N

British National Grid
Basemap: Open Street Map

Contains OS data © Crown
Copyright and database right
2023
Contains data from OS
Zoomstack

Map produced by Rob Brunt,
West Anglia Area Team,
Natural England

2. Objectives

This aim of the survey is to selectively survey the wider north Thames-side landscape for target terrestrial invertebrate assemblages, in order to update, confirm and contextualise the highest quality sites within the Area of Interest, following a series of surveys which were undertaken in 2022. This will contribute to a wide and contemporary dataset to expand knowledge of the baseline of resource. The survey will also inform our expectations of newly created habitats as to the qualities emerging. In particular we are targeting F111 (bare sand and chalk) and F112 (open short sward) Specific Assemblage Types (but also locally W314 and W22) as per Pantheon. For clarity, aquatic sampling is not required within ditches and other waterbodies, but should include marginal wetland habitats associated with these features. The survey should map and photograph the extent of marginal vegetation and specify an approximate buffer for such areas.

Some sites within the target area may be sub-optimally managed, but in close proximity to higher quality habitats. We are therefore also interested to understand potential value, alongside existing quality. Current threats to high quality areas also need to be understood, as some land is actively worked.

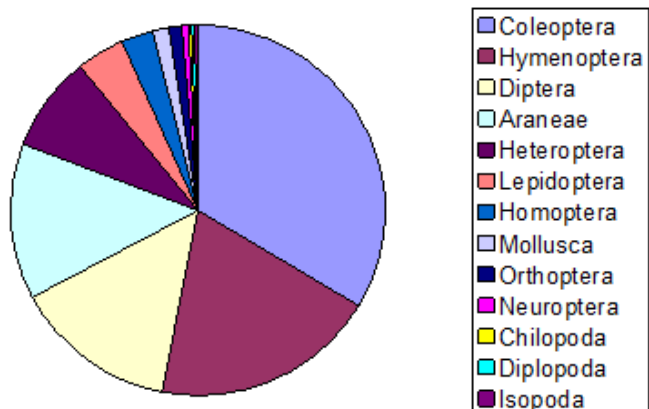
Note that pitfall trap deployment may be difficult in some places due to either close proximity to residential areas, or the presence of horses / stock. In places motorbike access is known to take place. Appropriate consideration of trap placement should therefore be made and discussed with the project officer. Some areas are not well enough known to prescribe survey method or effort, and so some ad hoc sampling or on-site decision making following initial scoping should be expected.

The specific objectives of the survey vary across the survey compartments. Further details are provided at Annex 2.

Taxonomic focus

Terrestrial invertebrates along estuary / near coastal semi-urban and industrial brownfield sites. Particular focus is on the F111 and F112 Specific Assemblage Types. W314 for the reedbed at Stanford Warren (A6, A1), and probably W22/W211 for the marshes in the Tilbury Fort (northern marshes) area. <https://www.brc.ac.uk/pantheon/>. Hence this survey is not sampling fully aquatic taxa (e.g. no pond netting) but deploys terrestrial techniques. Target taxa are set out below.

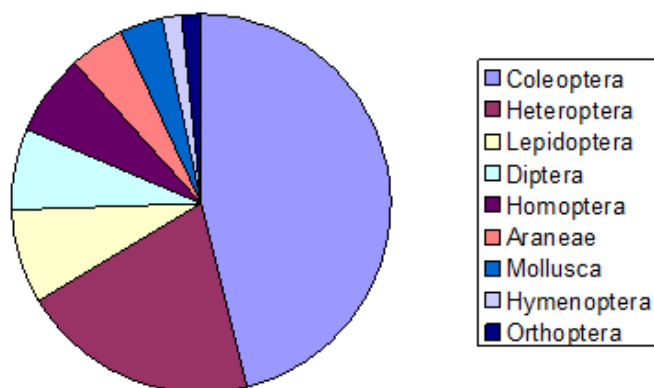
F111 – Bare sand & Chalk



Recommended target taxa:

aculeates, Coleoptera, larger Diptera, day-flying Lepidoptera, Heteroptera,

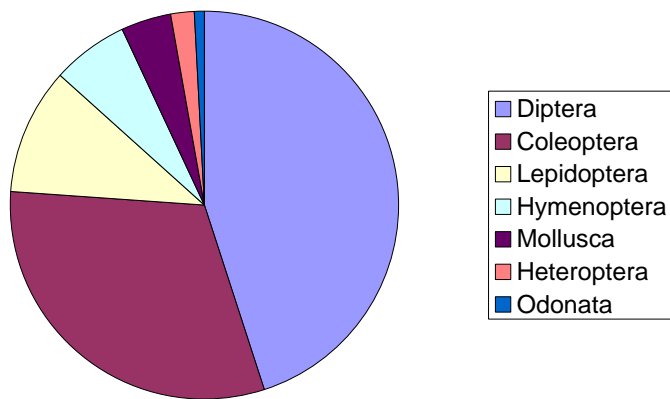
F112 – Open short sward



Recommended target taxa:

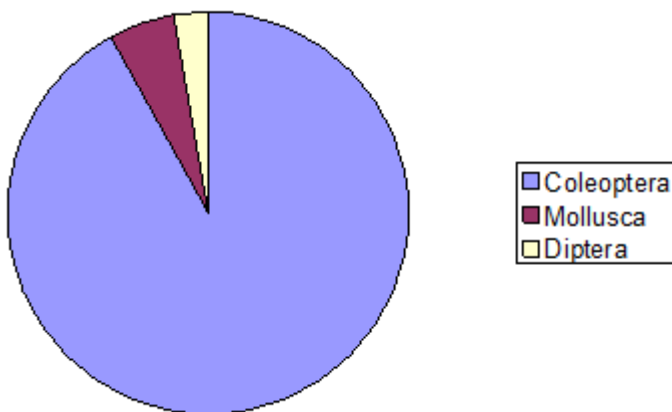
aculeates, Coleoptera, larger Diptera, day-flying Lepidoptera, Heteroptera, Orthoptera

W314 – Reed-fen & Pools



Recommended target taxa: aquatic species, Coleoptera, Diptera

W221 – Undisturbed fluctuating marsh



Recommended target taxa: Coleoptera

2. Methods

To enable successful delivery of the surveys, the successful Contractor is expected to:

- plan the delivery of the surveys and **submit these plans at the tendering stage**; and
- conduct the surveys, including organisation of surveyors and equipment, and ensure that all health and safety requirements, are met.

2.1 General considerations

Consideration should be given to any generic hazards identified, including any specific risks flagged by Natural England, which should be worked into a site-specific Risk Assessment Method Statement (RAMS). Under no circumstances should observers enter into a hazardous situation in order to complete a survey. Instead, surveys of inaccessible or hazardous habitats should be undertaken from a vantage point or other safe distance, and any limitations should be recorded in the report, with justification and a consideration of potential impacts.

Care should also be taken to avoid causing damage to arable crops or disturbance to livestock present within a survey area. In these situations, it is acceptable for observers to keep to field

margins or tram lines, but also consider a vantage point, or supplementary survey, from a reasonable distance.

2.2 Survey Methodology

Standard terrestrial sampling techniques for the target invertebrate groups are required across the identified sites. Some specific methods are proposed based on our knowledge of the area and are set out in the table below. Further detail will be shared with the successful contractor including proposed trapping locations, but our suggested survey effort is also noted here. Please refer to the reference maps for locations of specific areas. At times, the ground conditions may make installing pitfall traps impossible, and if so, the time should be re-deployed using other techniques. Pitfall traps are however preferred where specified if possible. In addition, all surveys should report with a sampling area map, to ensure it is clear where the areas of high quality are found (i.e., which could be a few smaller key features within a larger area).

Site Code	Site Name	Habitat	Survey Method & Timing	Survey Effort
A1 A6	Stanford Warren EWT reserve	Reedbed & other wet habitats	July-early September to avoid breeding birds.	Sample in different locations to previous surveys (NE will supply details of previous survey locations) to give better spatial coverage: 2x yellow water traps at <u>each</u> location, with sweeping, spot sweeping and hand searches in the litter and elsewhere, probably in 2 lots at trap setting and emptying.
C1 C3 C4 C7	Enovert landfill grassland (C1) Mucking Landfill North-West (C3) Mucking Landfill North-East (C4) LTC Enovert Zone A (C7)	Grassland	Pitfall trap (3x3 pitfall grids, 4 in all, (for C1 - in southern and eastern areas away from the scrub). Suction sampling, & sweeping. May-June.	1 day trap set, 1 day active sampling, 1 day empty & remove. Pitfall in situ 7-8 days.

Site Code	Site Name	Habitat	Survey Method & Timing	Survey Effort
D1 D3	East Tilbury Quarry (D1) Disused Sewage Treatment Works (D3)	Grassland	Over sample here. 7-8 day pitfall. Suction sample, sweeping if possible, hand searching – but review on site. May-June.	Multiple sampling locations to glean full understanding of the resource here.
H4	DHL Landfill (LTC4)	Grassland / scrub edge	Passively trap 4 lots of 3x3 pitfalls (7-8 days), active sweeping & suction sampling ideally. Hand searches if not. Focus on the <u>interior</u> of the parcel. May-June.	1 day trap set, 1 day active sampling, 1 day empty & remove. Pitfalls 7-8 days in situ.
J2	European Metal Recycling Site	Grassland / scrub edge / OMH.	Survey the early successional habitats. June-July. Sweeping, hand searching, & other active sampling (assuming pitfalls are impractical).	1 day active sampling.
G3	Goshem's landfill	Grassland over landfill	Full sampling (include passive & active methods) on non-operational areas, including pitfall traps. Map & note localised high quality amongst operational areas.	7-8 day pitfall traps in situ. 2 days active sampling.
G4	Freeport 50 acres	Capped landfill	Review following scoping visit.	Review following scoping visit.
G5	Goshem's Farm Conservation Area	Scrubby grassland with pools. Structurally complex.	Not expected to support F111/F112. Exploratory survey.	Review following scoping visit, at contractor's discretion.

Site Code	Site Name	Habitat	Survey Method & Timing	Survey Effort
G6	Goshem's Pool & margins	Pool over PFA	Review following scoping visit. Focus on marginal habitats. Not aquatic methods.	Half a day active sampling.
G7 G8	Ash B East (G7) & Ash B West (G8)	PFA	Review following scoping visit, depending on available non-operational habitat resource.	Review following scoping visit
G9 G10 G11	Ash C1 (G9) Ash C2 (G10) Ash C3 (G11)	Arable (capped) with PFA margins	Sample the stable PFA & associated habitats wherever present.	Review following scoping visit
G13 G14	Ash A2 (G13) Ash A3 (G14)	Capped former PFA & PFA-based habitats	Sample marginal ditch network & any remnant PFA. Sample other areas of apparent quality following on site assessment. Mapping of localised hot spots.	Review following scoping visit
G15	Pylon area	Scrubby grassland	Sample for scrub edge F001	Review following scoping visit, at contractor discretion.
G16	Tilbury2 Mitigation area	Grassland with wetland features, some remnant OMH may be present.	Review following scoping visit. Target W22 for beetles in May for the wetter areas. Remnant OMH habitats in May as well as part of combined visit.	Review following scoping visit, at contractor discretion. 2 days active sampling. Consider pitfall traps if suitable for 7-8 day run period, otherwise active searching.

Site Code	Site Name	Habitat	Survey Method & Timing	Survey Effort
K1	Tilbury2 Central Ditch	Grassland with wet feature. 300m x 20m.	Review following scoping visit. Target any PFA areas. Sweeping, hand search. As appropriate. Both sides of ditch.	Review following scoping visit. June. 0.5 day max.
K2	Infill North of Sewage Treatment Works	Grassland with scrub of varied topography	Review following scoping visit	Review following scoping visit
TFM6 TFM7 TFM8 TFM12 TFM13	<p>TFM6 - Northern marsh east of Fort Road (Western half)</p> <p>TFM7 - Northern marsh east of Fort Road (Eastern half)</p> <p>TFM8 - Northern marsh West of Fort Road</p> <p>TFM12 - Attenuation pond area</p> <p>TFM13 - Cruise Terminal grasslands</p>	Grazing marsh with wet features	Review following scoping visit. W22 target assemblage (ditch marginal habitat). May beetle hunt. Sweep as well (spiders, flies) for balance for main grassland habitats.	Review following scoping visit. 3 days for TFM6-8, 12-13.
TFM10 (s/m F4)	Intertidal area adjacent Cruise Terminal	Saltmarsh	Sample for M311, upper & mid saltmarsh. Early July-September. Including for <i>Colletes halophilus</i> .	Review tides. 0.5-1 days. TBC

Site Code	Site Name	Habitat	Survey Method & Timing	Survey Effort
F	Other localised saltmarsh including at 'D4' (nr. H4 – DHL / LTC4), F1 (nr. G12 – Ash A1), F2 (nr. TFM5 – Bill Meroy Creek),	Saltmarsh – totalling 5.2ha.	Sample for M311, upper & mid saltmarsh. Early July-September. Including for <i>Colletes halophilus</i> .	Review tides. 3 days across the saltmarsh areas suggested. Allow for transit time between sampling areas. NE to supply more detailed map of target areas.

2.3 Data interpretation

No specific data interpretation is required, however it would be helpful to present a Pantheon analysis for target assemblages at the discretion of the contractor.

2.4 Data recording

The species data should be presented in spreadsheet format, with a binomial name only in the name column, and land parcel identifier clearly stated and referenced back to the original survey details (provided). Some indication of population size / abundance / broad count data (or use of size classes for large populations) is required across all survey areas. Maintain spatial separation of the datasets is important, to avoid inventories per se. One will end up with species lists for the selected land parcels, grouped according to their geographical position within the main sampling blocks. The pre-determined parcel names must be used throughout to allow individual sites to be followed through if required. It is important to ensure that each sample occupies its own spreadsheet tab, although aggregated matrices of the data can also be created but these should not be the primary output. This is because it is easier to import single tab data entries into Pantheon for our own uses. If the spreadsheet becomes too large and unwieldy, then it can be split into sampling areas, and each can have its own spreadsheet.

Provide maps showing the location of sampling points (some of which we can suggest), in the report or in a GIS file compatible with UK Geospatial Data Standards Register which is available at [UK Geospatial Data Standards Register - GOV.UK \(www.gov.uk\)](http://www.gov.uk). Alternatively, grid references are fine to appropriate resolution (at least 6-figure).

Provide an indication of the reliability of survey and any limitations likely to reduce the reliability of results.

A general description of the habitats should be included, including any apparent forage plant species of importance, with an approximate abundance and distribution commentary. It would also be helpful if clear and concise recommendations for management to benefit target assemblages or individual species could be provided.

2.5 Access to Land

Natural England will obtain landowner/manager permission in advance of the surveys providing approximate timings of site visits. As may be necessary, we will supply contact details of local personnel with whom the contractor will liaise. We will also supply site access notes and other

details as may be helpful based upon our knowledge of the area. Any personal or other confidential details must be treated in strict confidence according to GDPR requirements. Where required, permissions must be obtained at least 48 hours prior to each visit. Should permission be refused at short notice or upon arrival, the Natural England project officer should be notified as soon as possible with the view to rapid resolution to enable the survey to continue.

Natural England's statutory powers of entry may be required in isolated cases, although every effort will be made to enable voluntary access permissions in advance. Should this be the case, the relevant paperwork authorisation to proceed will be supplied in advance to the contractor.

3. Outputs

On award of the contract, the supplier will be required to deliver the following:

3.1 Survey work

- An indicative survey schedule and protocol setting out the target dates (if known), to enable access to be negotiated at an early stage.
- Brief verbal updates following the completion of each visit over Microsoft Teams detailing pertinent information regarding the survey to enable feedback and resolution of any matters arising, such as weather, disturbance, any other issues affecting the survey programme and data quality.

3.2 A single final technical report

Following Natural England guidance and using the Natural England Microsoft Word template (available from [Natural England publishing standards for commissioned reports - NECR000](#)) the report should include the following:

- an executive summary;
- an introduction and background to the work;
- a methods section detailing the adopted surveying approach for tasks 1;
- a results section providing tables of data for all species surveyed as part of task 1; and
- Photos of sampling points and any localised high quality areas;
- a discussion of the findings outlining any caveats concerning the use of and limitations to the data presented.

4.3 Accompanying datasets.

- Quality assured datasets of validated observations for all species recorded – so that pre-agreed data standards are met.
- All data provided must be compatible with the UK Geospatial Data Standards Register which is available at [UK Geospatial Data Standards Register - GOV.UK \(www.gov.uk\)](#) .
- **Following agreement from Natural England, all relevant datafiles and associated metadata records may be required to be submitted by the contractor to a pre-agreed public repository within a pre-agreed period following completion of the surveys.**

4. Project management

Once let, the following project milestones will apply.

Milestone	Responsible Party	Date of completion
Project inception meeting/teleconference between contractor/sub-contractor and Natural England.	Natural England and Contractor	March 2024
Contractor submits survey protocol and planned schedule.	Contractor	Late March 2024
Completion of any site inductions well in advance of field work commencing.	Arranged by NE, completed by contractor	April
Teleconferences between Natural England and contractor to discuss progress and any issues arising.	Natural England and Contractor	After each visit, May-September 2024
After end of all field work, contractor submits draft technical report and initial GIS outputs to Natural England (the 50% milestone, see below).	Contractor	Friday 31 st October 2024
Natural England provide feedback on draft technical report.	Natural England	Friday 15 th November 2024
Teleconference between Natural England, and contractor to discuss feedback on draft technical report.	Natural England and contractor	W/C 18 th November 2024
Contractor submits final technical report addressing Natural England comments on the draft report, and submission of final GIS outputs, other associated datasets and metadata to agreed standards (the 100% milestone, see below).	Contractor	End November 2024
Wash-up meeting.	NE & Contractor	Mid-December 2024
Contract completed.	NE & Contractor	Friday 20 th Dec. 2024

This is the envisaged contract timetable. Bidders should highlight any proposed deviation from this timeline within their bid (e.g. allowing for specimen identification through sub-contractors). Any delays to this timetable during the contract should be immediately discussed with the Project Officer.

In support of this contract, Natural England will provide the successful Contractor with:

- Project support from dedicated project lead (NE project officer).
- GI layers delineating the survey areas for the terrestrial invertebrate survey (task 1).
- Feedback comments on the draft technical report.
- Opportunity to feedback and discuss progress with the NE project lead at regular intervals throughout the project.

5. Data ownership, intellectual property rights and copyright

All data captured and produced shall be fully owned by and copyrighted to Natural England. This shall include any intellectual property rights that might otherwise impede on Natural England's usage and data sharing of the outputs. Natural England may share any project outputs with third parties including for the purposes of additional analyses outside the final scope of any contract awarded against this statement of requirements. Any data supplied by Natural England to potential bidders and the successful contractor are for use in this project only and should not be retained once the bidding process (for unsuccessful bidders) or project (for the successful contractor) has been completed. In addition, neither bidders nor the successful contractor must pass such data on to any third parties unless with explicit prior permission from Natural England. The contractor is responsible for ensuring that all products submitted are of a satisfactory standard. The Natural England Nominated Officer may undertake a QA review of all project deliverables prior to approving subsequent payment for the work.

6. Payment

The Authority will raise purchase orders to cover the cost of the services and will issue to the awarded supplier following contract award. The Authority's preference is for all invoices to be sent electronically, quoting a valid Purchase Order number. Payment of 50% of the total contract value will be made on receipt of a detailed invoice following completion (to the satisfaction of the Natural England Nominated Officer) of the field work and draft GIS outputs. The remaining 50% of the total contract value will be made on receipt of a detailed invoice following completion (to the satisfaction of the Natural England Nominated Officer) of all the milestones detailed above, and formal acceptance by them of the specified outputs i.e. final reports. All invoices should be dated no later than 20th December 2024.

It is anticipated that this contract will be awarded for a period of 42 weeks (~ 10 months) to end no later than 20th December 2024. Prices will remain fixed for the duration of the contract award period. We may at our sole discretion extend this contract to include related or further work. Any extension shall be agreed in writing in advance of any work commencing and may be subject to further competition.

7. Evaluation Methodology

We will award this contract in line with the most economically advantageous tender (MEAT) as set out below.

8.1 Evaluation criteria

Evaluation weightings are 50% technical and 50% commercial, the winning tenderer will be the highest scoring combined score. The summary table below provides an overview of the overall evaluation breakdown.

Award Criteria	Weighting (%)	Evaluation Topic & Weighting	Sub-Criteria	Weighted Question
Technical	50%	Service	Methodology	Q1. Please provide details of the methodology proposed to deliver the requirements set out in the Specification. (40% of technical score available)

Award Criteria	Weighting (%)	Evaluation Topic & Weighting	Sub-Criteria	Weighted Question
			Staff Technical Expertise	Q2. Please provide details of the project team providing the requirements set out in the Specification. (50% of technical score available)
			Risk assessment	Please provide a project risk assessment. (10% of technical score available)
Commercial	50%	Whole life cost of the Contract	Commercial Model	Q3. Please provide costs (100% of commercial score available)

7.1 Technical (50%)

Technical evaluations will be based on responses to specific questions covering key criteria which are outlined below. Scores for questions will be based on the following:

Description	Score	Definition
Very good	100	Addresses all the Authority's requirements with all the relevant supporting information set out in the RFQ. There are no weaknesses and therefore the tender response gives the Authority complete confidence that all the requirements will be met to a high standard.
Good	70	Addresses all the Authority's requirements with all the relevant supporting information set out in the RFQ. The response contains minor weaknesses and therefore the tender response gives the Authority confidence that all the requirements will be met to a good standard.
Moderate	50	Addresses most of the requirements with most of the relevant supporting information set out in the RFQ. The response contains moderate weaknesses and therefore the tender response gives the Authority confidence that most of the requirements will be met to a suitable standard.
Weak	20	Substantially addresses the requirements but not all and provides supporting information that is of limited or no relevance or a methodology containing significant weaknesses and therefore raises concerns for the Authority that the requirements may not all be met.
Unacceptable	0	No response or provides a response that gives the Authority no confidence that the requirement will be met.

Technical evaluation is assessed using the evaluation topics and sub-criteria stated in the Evaluation Criteria section above.

Tenderers should provide answers that meet the criteria of each technical question set out in the following tables.

Q1. Methodology	Detailed Evaluation Criteria
<p>Your response must not exceed a maximum of 6 sides of A4 (in addition to any title page), font size Arial 11.</p>	<p>The response must demonstrate the delivery method for each requirement specified in Section 2 of this RFQ or provide reasons for why they do not. The response must include information in sufficient detail to allow a full appraisal of the suitability of the approach to deliver for the project. Your response will be evaluated on the basis of whether it:</p> <ul style="list-style-type: none"> • Demonstrates a clear understanding of the nature of the requirements. • Includes a clear, practical, achievable and cost-effective methodology to deliver these requirements including provision of: <ul style="list-style-type: none"> ➤ a clear survey plan, protocol and programme for delivery of tasks 1 & 2; ➤ details of clear and established procedures for capturing, securing, storing, processing and QA-ing count data with typical durations from data capture to fully available data; ➤ details of contingency processes for disrupted or aborted surveys; ➤ information on any added value your organization can bring to the project. <p>A minimum score of 50 averaged across evaluators is required to be met for this question. Any average score below this will be scored as a Fail.</p>

Q2. Staff Technical Expertise	Detailed Evaluation Criteria
<p>Your response must not exceed a maximum of 6 sides of A4 (in addition to any title page), font size Arial 11.</p>	<p>The response must demonstrate that the staff members (including any sub-contractors if appropriate) who will be assigned to delivery of this specific project have sufficient technical expertise across the broad range of technical skills required to deliver the project objectives including both generic skills and specific skills including but not limited to:</p> <ul style="list-style-type: none"> • Project management. • Planning and conducting breeding bird surveys on a variety of habitats. • Identification of all species likely to be encountered in the study area. • Handling, storing and securing data. • Ensuring Quality Assurance of data products. • Use of appropriate data processing tools.

Q2. Staff Technical Expertise	Detailed Evaluation Criteria
	<ul style="list-style-type: none"> Implementing data standards. <p>This will include examples of skills, expertise, and relevant training. The project team should have an appropriate balance of inputs by senior and junior staff. Lines of reporting to staff (to senior staff and/or the project manager) should be clearly presented and sufficient.</p> <p>The information provided should include:</p> <ul style="list-style-type: none"> For each member of the Project team, information on the amount of time input to this specific project, their roles, responsibilities, levels of seniority, the value added that they will bring to the project, their lines of reporting and their availability to do the work. The name(s) of the individual(s) who will have overall management responsibility for the project and will report to Natural England's project officer and the person who will be responsible for ensuring that the Project is completed satisfactorily. <p>Your response will be evaluated based on:</p> <ul style="list-style-type: none"> The level and relevance of expertise and skills, provided by the Project team and any sub-contractors and the value added delivered by this. This will consider expertise and skills in: project management; ornithology; field surveys of breeding birds, data collection and collation and knowledge of data standards. The suitability and adequacy of the staff making the inputs to each stage of the Project (in terms of their expertise and skills), the quantity of their inputs and their availability to do the work. For each member of the Project team, information on the amount of time input (days/hours) to this specific project. We suggest this information is provided in a table. The appropriateness of the balance of inputs by senior and junior staff and clarity and sufficiency of lines of reporting. Please provide the name(s) of the individual(s) who will have overall management responsibility for the project and will report to Natural England's project officer and the person who will be responsible for ensuring that the Project is completed satisfactorily. We suggest a project specific organogram is provided. Consideration should be given to cover for key roles given any unforeseen circumstances. <p>A minimum score of 50 averaged across evaluators is required to be met for this question. Any average score below this will be scored as a Fail.</p>

Q3 Risk assessment	Detailed evaluation criteria
<p>Your response must not exceed a maximum of 6 sides of A4 (in addition to any title page), font size Arial 11.</p>	<p>Provide a project risk assessment tailored to the requirement to cover matters regarding:</p> <ul style="list-style-type: none"> • Health and Safety risks associated with conducting the surveys needed to fulfil the objectives of this project, and associated mitigation measures. • All other (non-H&S) risks associated with delivery of the surveys and subsequent data processing, analyses, reporting etc needed to fulfil the objectives of this project, and associated mitigation measures and contingencies. <p><u>Evaluation criteria:</u></p> <p>Your response will be evaluated on the basis of whether it:</p> <ul style="list-style-type: none"> • Demonstrates a clear understanding of the Health & Safety issues associated with delivery of the surveys needed to fulfil the objectives of this project and describes effective measures to mitigate those risks. <p>Demonstrates a clear understanding of all other risks associated with delivery of the surveys specifically and the project in general to fulfil the objectives of this project and describes effective measures to mitigate those risks.</p> <p>A minimum score of 50 averaged across evaluators is required to be met for this question. Any average score below this will be scored as a Fail.</p>

7.2 Commercial (50%)

The Contract is to be awarded as a fixed price which will be paid according to the completion of the deliverables stated in the Specification of Requirements. Suppliers are required to submit a total cost to provide the deliverables stated in the Specification of Requirements. In addition to this, the Commercial Response template (supplied separately) must be completed to provide a breakdown of the whole life costs against **each deliverable** used in the delivery of this requirement.

7.3 Calculation Method

The method for calculating the weighted scores is as follows:

Commercial

Score = (Lowest Quotation Price / Supplier's Quotation Price) x 50% (Maximum available marks)

Technical

Score = (Bidder's Total Technical Score / Highest Technical Score) x 50% (Maximum available marks)

The total score (weighted) (TWS) is then calculated by adding the total weighted commercial score (WC) to the total weighted technical score (WT): $WC + WT = TWS$.

8. Information to be returned

Please note, **the following information requested must be provided**. Incomplete tender submissions may be discounted.

- Completed Commercial Response template (supplied separately).
- Responses for each technical question in accordance with the response instructions.
- Completed Mandatory Requirements (Annex 1).
- Completed Acceptance of Terms and Conditions (Annex 2).

9. Award

Once the evaluation of the Response(s) is complete all suppliers will be notified of the outcome via email. The successful supplier will be issued the contract, incorporating their Response, for signature. The Authority will then counter sign and generate a Purchase Order.

Annex 1 Mandatory Information

Part 1 Potential Supplier Information

Please answer the following self-declaration questions in full and include this Annex in your quotation response.

Part 1.1 Potential Supplier Information:

Question no.	Question	Response
1.1(a)	Full name of the potential supplier submitting the information	
1.1(b)	Registered office address (if applicable)	
1.1(c)	Company registration number (if applicable)	
1.1(d)	Charity registration number (if applicable)	
1.1(e)	Head office DUNS number (if applicable)	
1.1(f)	Registered VAT number	
1.1(g)	Are you a Small, Medium or Micro Enterprise (SME)?	(Yes / No)

Note: See EU definition of SME https://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en

Part 1.2 Contact details and declaration

By submitting a quotation to this RFQ I declare that to the best of my knowledge the answers submitted and information contained in this document are correct and accurate.

I declare that, upon request and without delay you will provide the certificates or documentary evidence referred to in this document.

I understand that the information will be used in the selection process to assess my organisation's suitability to be invited to participate further in this procurement.

I understand that the authority may reject this submission in its entirety if there is a failure to answer all the relevant questions fully, or if false/misleading information or content is provided in any section.

I am aware of the consequences of serious misrepresentation.

Question no.	Question	Response
1.2(a)	Contact name	
1.2(b)	Name of organisation	
1.2(c)	Role in organisation	
1.2(d)	Phone number	
1.2(e)	E-mail address	
1.2(f)	Postal address	
1.2(g)	Signature (electronic is acceptable)	
1.2(h)	Date	

Part 2 Exclusion Grounds

Part 2.1 Grounds for mandatory exclusion

Question no.	Question	Response
2.1(a)	Please indicate if, within the past five years you, your organisation or any other person who has powers of representation, decision or control in the organisation been convicted anywhere in the world of any of the offences within the summary below.	
	Participation in a criminal organisation.	(Yes / No) If yes please provide details at 2.1 (b)
	Corruption.	((Yes / No) If yes please provide details at 2.1 (b)
	Fraud.	(Yes / No) If yes please provide details at 2.1 (b)
	Terrorist offences or offences linked to terrorist activities	(Yes / No) If yes please provide details at 2.1 (b)
	Money laundering or terrorist financing	(Yes / No) If yes please provide details at 2.1 (b)
	Child labour and other forms of trafficking in human beings	(Yes / No) If yes please provide details at 2.1 (b)
2.1(b)	<p>If you have answered yes to question 2.1(a), please provide further details.</p> <p>Date of conviction, specify which of the grounds listed the conviction was for, and the reasons for conviction.</p> <p>Identity of who has been convicted.</p> <p>If the relevant documentation is available electronically please provide the web address, issuing authority, precise reference of the documents.</p>	
2.1 (c)	If you have answered Yes to any of the points above have measures been taken to demonstrate the reliability of the organisation despite the existence of a relevant ground for exclusion? (i.e. Self-Cleaning)	(Yes / No)

Question no.	Question	Response
2.1(d)	Has it been established, for your organisation by a judicial or administrative decision having final and binding effect in accordance with the legal provisions of any part of the United Kingdom or the legal provisions of the country in which the organisation is established (if outside the UK), that the organisation is in breach of obligations related to the payment of tax or social security contributions?	(Yes / No)
2.1(e)	If you have answered yes to question 2.3(a), please provide further details. Please also confirm you have paid or have entered into a binding arrangement with a view to paying, the outstanding sum including where applicable any accrued interest and/or fines.	

Part 2.2 Grounds for discretionary exclusion

Question no.	Question	Response
2.2(a)	<p>The detailed grounds for discretionary exclusion of an organisation are set out on this webpage, which should be referred to before completing these questions.</p> <p>Please indicate if, within the past three years, anywhere in the world any of the following situations have applied to you, your organisation or any other person who has powers of representation, decision or control in the organisation</p>	
2.2(b)	Breach of environmental obligations?	(Yes / No) If yes please provide details at 2.2 (f)
2.2(c)	Breach of social obligations?	(Yes / No) If yes please provide details at 2.2 (f)
2.2(d)	Breach of labour law obligations?	(Yes / No) If yes please provide details at 2.2 (f)
2.2(e)	Shown significant or persistent deficiencies in the performance of a substantive requirement under a	(Yes / No) If yes please provide details at 2.2 (f)

Question no.	Question	Response
	prior public contract, a prior contract with a contracting entity, or a prior concession contract, which led to early termination of that prior contract, damages or other comparable sanctions?	
2.2 (f)	If you have answered Yes to any of the above, explain what measures been taken to demonstrate the reliability of the organisation despite the existence of a relevant ground for exclusion? (Self Cleaning)	

Annex 1 Mandatory Information

I/We accept in full the terms and conditions appended to this Request for Quote document.

Company: _____

Signature: _____

Print Name: _____

Position: _____

Date: _____

Annex 2 Survey Compartment Notes

Compartment A: Mucking Wetlands

The focus of survey in this compartment should be on the Stanford Warren Essex Wildlife Trust reserve, more comprehensively than has previously been the case, with a concentration on the marshy or otherwise wet areas. This is with the view to better understand the W314 'reed-fen and pools' and other wet (but terrestrial) habitats. Previous surveys have shown no clear assemblage dominance, and this present survey aims to confirm this initial conclusion or otherwise strengthen the assemblage scores through further sampling.

Compartment C: Mucking Landfill Site (Enovert) inc. Golden Gates / Gobions Lake

This variably active landfill complex has experienced localised changes in recent years, and so a targeted survey is needed of the following areas:

- **C1 – Mucking landfill south.** This area includes a zone of more active operations but requires further survey in the more stable southern and eastern areas (away from the scrub), which have not previously been pitfall trapped.
- **C3 – Mucking landfill north-west.** This area has recently been used to create a reptile receptor site. Survey should focus on the northern half to account for these changes.
- **C4 – Mucking landfill north-east.** This zone includes some new scrub planting but is largely set aside for natural regeneration.
- **C7 – LTC Enovert Zone A.** The western half of this sub-compartment has been used to create a reptile habitat. The eastern grasslands are thought to remain intact. Both should be sampled.

Compartment D – East Tilbury Quarry (Walsh) Site

The main quarry area marked here as '**D1 – East Tilbury Quarry**' (but including '**D3 – Disused Sewage Treatment Works**') should be surveyed. The scrape area D2 should not be surveyed. The quarry has recently been restored, and its position adjacent or close to habitats of known high quality indicates that it holds greater potential than recent surveys suggest. A comprehensive survey is needed to evidence the expected growing importance of this compartment.

Compartment F – Inter-tidal zone (between Coalhouse & Tilbury Forts)

The inter-tidal zone between Coalhouse and Tilbury forts has small pockets of saltmarsh. These have not yet been sampled for the saltmarsh / transitional brackish assemblage M311. A more detailed map of the target areas within this zone will be provided.

Compartment G: Ashfields & Goshem's Farm

Within this compartment, survey effort should focus on the PFA ashfields, to gain an up to date understanding of the extent and stability of the PFA-based habitat resource in this area. The restored ashfield 'A1' has been extensively surveyed over recent years and is not proposed for survey. Complementary grassland and scrub habitats contribute to the overall mosaic of the compartment. Notes on any specific PFA habitat features that add value to this substrate would be welcome to inform future habitat creation opportunities

(e.g. slope, aspect, wetness, extent, vegetation cover, height, etc.) The following sub-compartments require survey for terrestrial invertebrates:

- **G3 – Goshem’s Landfill.** This area is known to have been worked in recent years (and some operations are thought to continue), but appears to have stabilised in the short-medium term in places, and has generated a ruderal vegetation cover.
- **G4 – Freeport 50 acres.** This area has been capped and levelled more recently, and is only very sparsely vegetated. A scoping survey is required to inform any further sampling effort.
- **G5 – ‘Goshem’s Farm Conservation Area’.** This area comprises rank grassland and scrub due to management neglect, but some areas of rabbit-grazed short grassland remain, as do some wetter habitats arising from bottle digger excavations.
- **G6 – ‘Goshem’s Pool’.** The largest of the waterbodies at Goshem’s Farm with a receding margin containing PFA sediments.
- **G7 – ‘Ash B East’.** A larger area of PFA extraction of uncertain condition east of the haul road.
- **G8 – ‘Ash B West’.** A sinuous ditch and varied marginal habitats west of the haul road.
- **G9 – ‘Ash C1’.** An arable field presumed to be restored from PFA related purposes. The margins, including the western ditch area, eastern ditch corridor, and northern route of the ‘Tilbury Main’ watercourse are thought likely to hold greater interest.
- **G10 – ‘Ash C2’.** This parcel contains the main PFA processing area. More stable habitats are thought to be present in the margins.
- **G11 – ‘Ash C3’.** This parcel is thought to contain more stable PFA deposits, including a high cliff feature with wetter areas.
- **G13 – ‘Ash A2’.** PFA has been extracted from this area and capped. The resulting vegetation is thought to be of interest to invertebrates, but the marginal ditches and adjacent habitats are thought to hold the greater value.
- **G14 – ‘Ash A3’.** Similar to ‘Ash A2’ with the addition of a PFA-depression in the northern area holding water seasonally.
- **G15 – ‘Pylon Area’.** This is an area of scrubby grassland adjacent to the substation and pylons.
- **G16 – Tilbury2 Mitigation Area.** This is a complex of wetlands used as mitigation for water voles. The potential for terrestrial invertebrates is unknown, and so a scoping visit is sought to inform any specific sampling. Some localised OMH may be present.

Compartment H – DHL landfill (LTC4), field at Coalhouse Point, Bowaters Scrubland

Only sub-compartment H4, the DHL landfill (LTC4) is required to be surveyed. The survey should concentrate on the central core of the site, to supplement earlier surveys in the margins.

Compartment J – Low Street Pit & surrounds

The only sub-compartment requested for survey is J2 – European Metal Recycling site. This comprises a seasonal wet area, scrubby grassland, and is thought to contain areas of sparsely vegetated more open ground.

Compartment K – Tilbury2 Surrounds

Within this compartment, the following sub-compartments require survey:

- **K1 – Tilbury2 Central Ditch.** The drainage ditch is flanked by grassland which is not known as to its terrestrial invertebrate potential. A scoping survey is sought initially to inform any further sampling effort.
- **K2 – Infill North of Sewage Treatment Works.** This area is not well known, but appears to comprise grassland and scrub habitats that may offer potential for terrestrial invertebrates. A scoping survey is sought initially to inform any further sampling effort.

Compartment TFM: Tilbury Fort Marshes

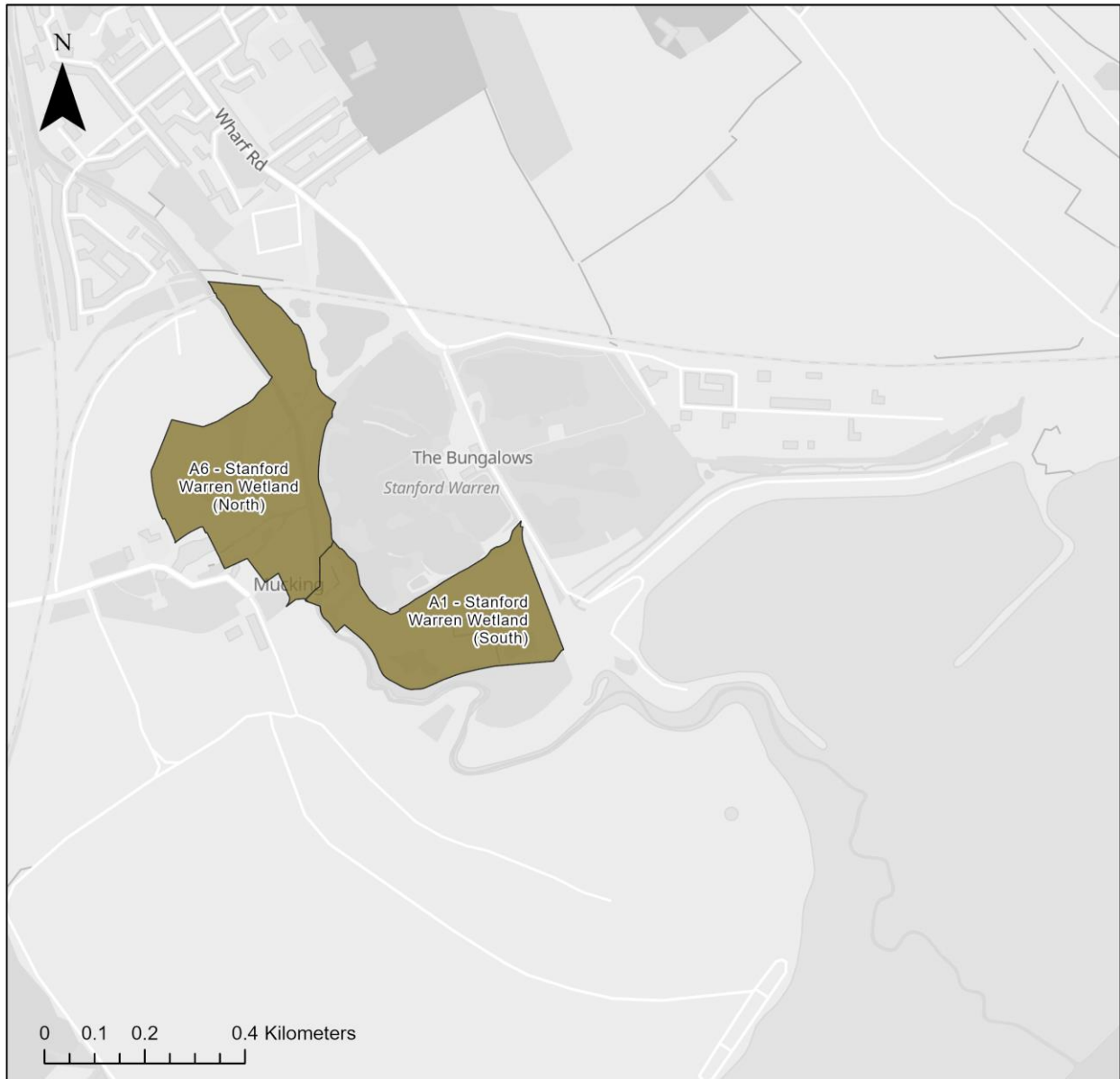
The northern marshes should be surveyed for terrestrial invertebrates. These parcels are variably grazed, with a taller sward than the southern marshes, boundary hedgerows, and a reptile mitigation area. Some seasonally wet areas may be present. The following parcels should be surveyed:

- **TFM6 – Northern Marsh East of Fort Road (Western half).** The parcel should be surveyed to understand how it contributes to the terrestrial invertebrate resource of the area.
- **TFM7 – Northern Marsh East of Fort Road (Eastern half).** The parcel should be surveyed to understand how it contributes to the terrestrial invertebrate resource of the area.
- **TFM8 – Northern Marsh West of Fort Road.** The parcel should be surveyed to understand how it contributes to the terrestrial invertebrate resource of the area. Part of this sub-compartment is a reptile mitigation area.
- **TFM10 – Inter-tidal area adjacent cruise terminal.** Saltmarsh is present here which is known to support the sea aster mining bee *Colletes halophilus*. This, along with others from this habitat type should be targeted.
- **TFM12 – Attenuation pond area.** A scoping survey is required to inform any further sampling for terrestrial invertebrates.
- **TFM13 – Cruise Terminal grasslands.** This grassland is pony grazed with a wet depression. A scoping visit is required to inform the need for further sampling effort.

Annex 3 Survey Compartment Maps



North Thames Estuary and Marshes Terrestrial Inverts 2024 Survey Compartments



- A - Mucking Wetlands
- B - Thameside Nature Park
- C - Mucking Landfill Site (Enovert) inc. Golden Gates/Gobions Lake
- D - East Tilbury Quarry (Walsh) Site
- E - Coalhouse Fort
- F - Intertidal Zone (between Coalhouse & Tilbury Forts)
- G - Ashfields & Goshems Farm
- H - DHL Landfill (LTC4) at Coalhouse Point, Bowaters Scrubland
- J - Low Street Pit & Surrounds
- K - Tilbury2 Surrounds
- L - Fields East of Coalhouse Battery
- SSSI - Mucking Flats SSSI
- SW - Sea Wall
- TFM - Tilbury Fort Marshes

Map created 30 January 2024.
Scale: 1:11,000

Map Center: 0°26'25"E
51°30'13"N

British National Grid
Basemap: Open Street Map

Contains OS data © Crown
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Zoomstack

Map produced by Rob Brunt,
West Anglia Area Team,
Natural England



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Map created 30 January 2024.
Scale: 1:13,000

Map Center: 0°25'37"E
51°29'33"N
British National Grid
Basemap: Open Street Map

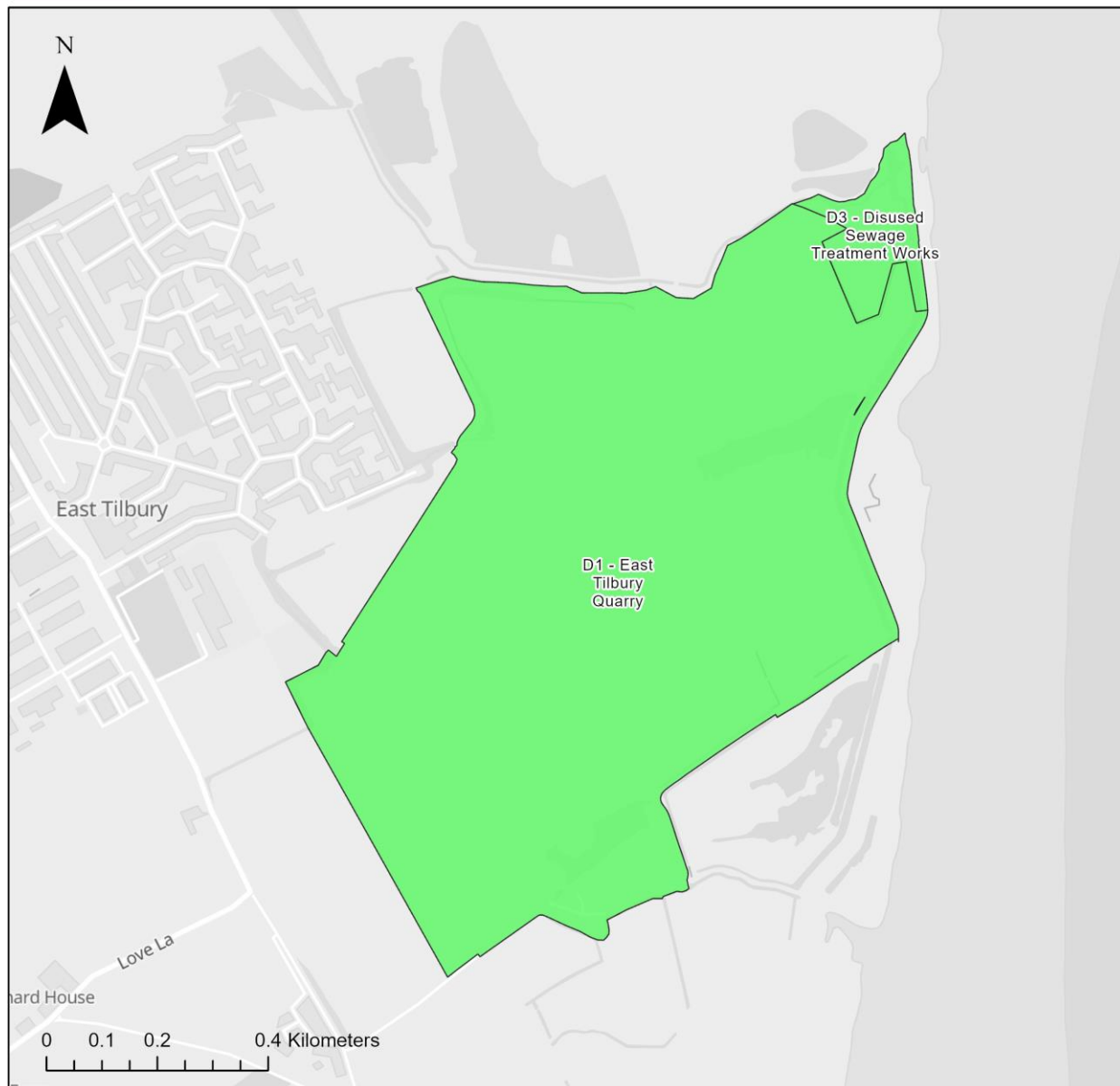
Contains OS data © Crown
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Map created 30 January 2024.
Scale: 1:10,000

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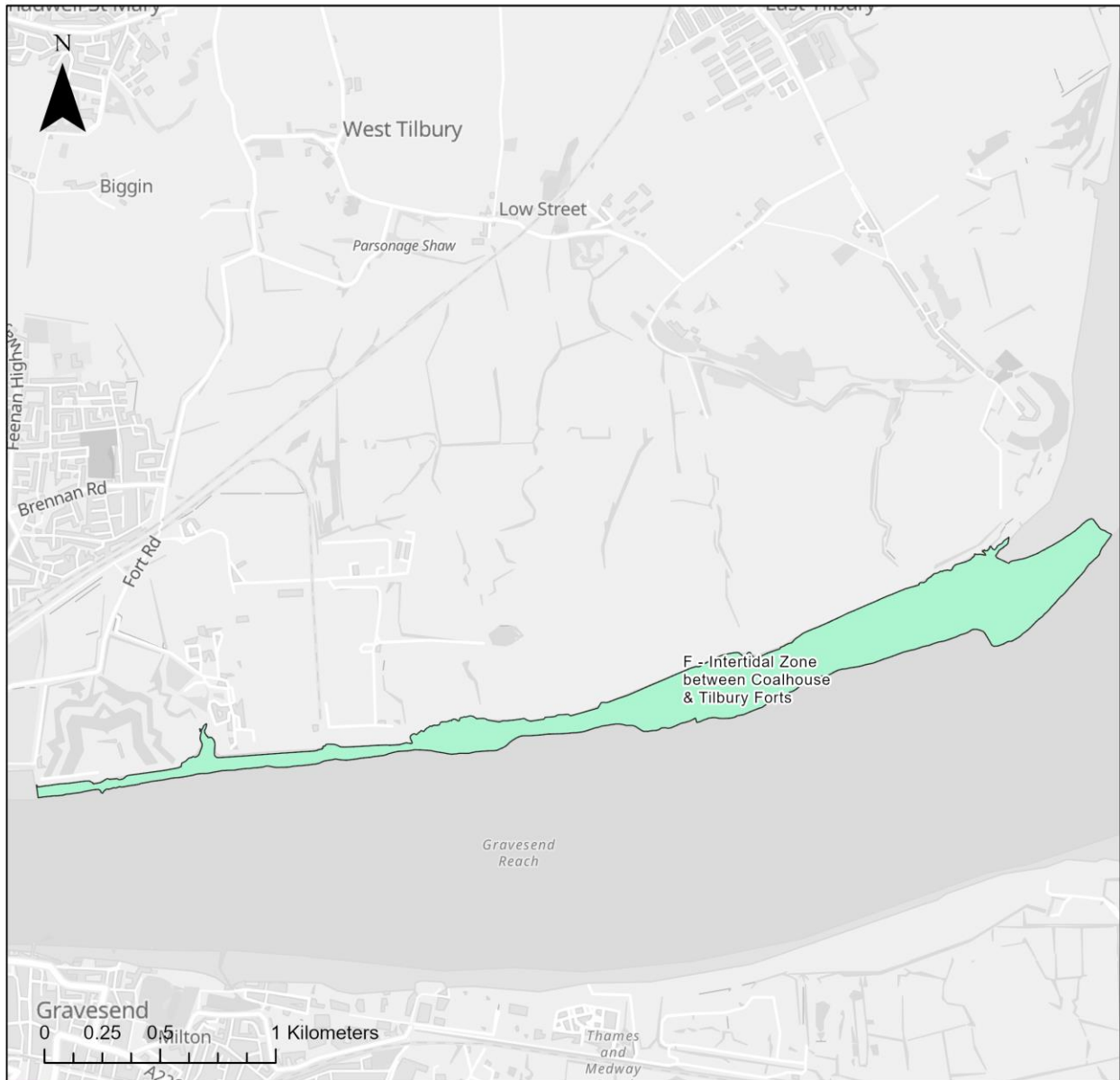
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Map created 30 January 2024.
Scale: 1:23,842

Map Center: 0°24'19"E
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British National Grid
Basemap: Open Street Map

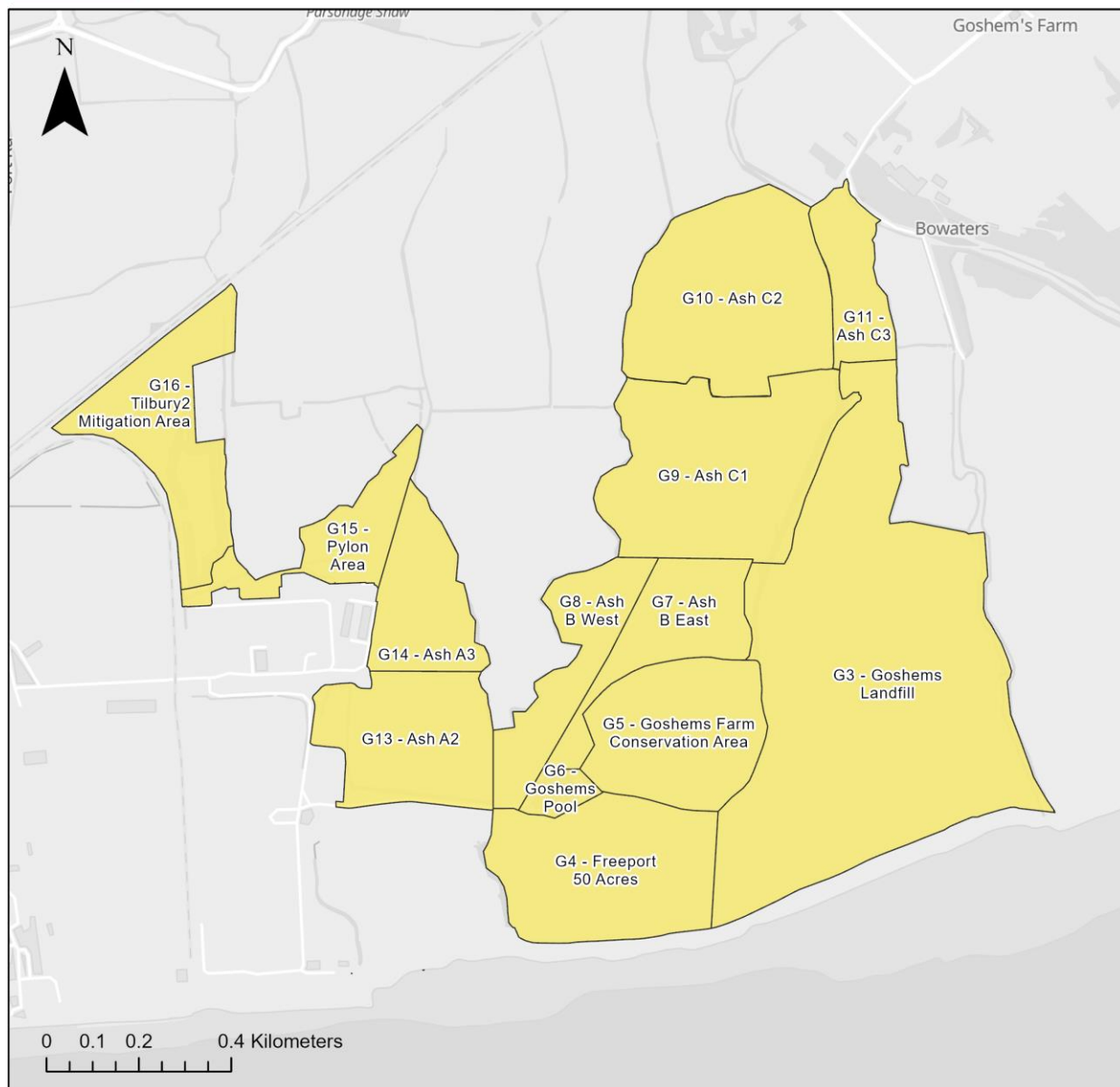
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- SW - Sea Wall
- TFM - Tilbury Fort Marshes

Map created 30 January 2024.
Scale: 1:12,000

Map Center: 0°24'7"E
51°27'40"N
British National Grid
Basemap: Open Street Map

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Map produced by Rob Brunt,
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Natural England



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- F - Intertidal Zone (between Coalhouse & Tilbury Forts)
- G - Ashfields & Goshems Farm
- H - DHL Landfill (LTC4) at Coalhouse Point, Bowaters Scrubland
- J - Low Street Pit & Surrounds
- K - Tilbury2 Surrounds
- L - Fields East of Coalhouse Battery
- SSSI - Mucking Flats SSSI
- SW - Sea Wall
- TFM - Tilbury Fort Marshes

Map created 30 January 2024.
Scale: 1:10,000

Map Center: 0°25'16"E
51°27'47"N
British National Grid
Basemap: Open Street Map

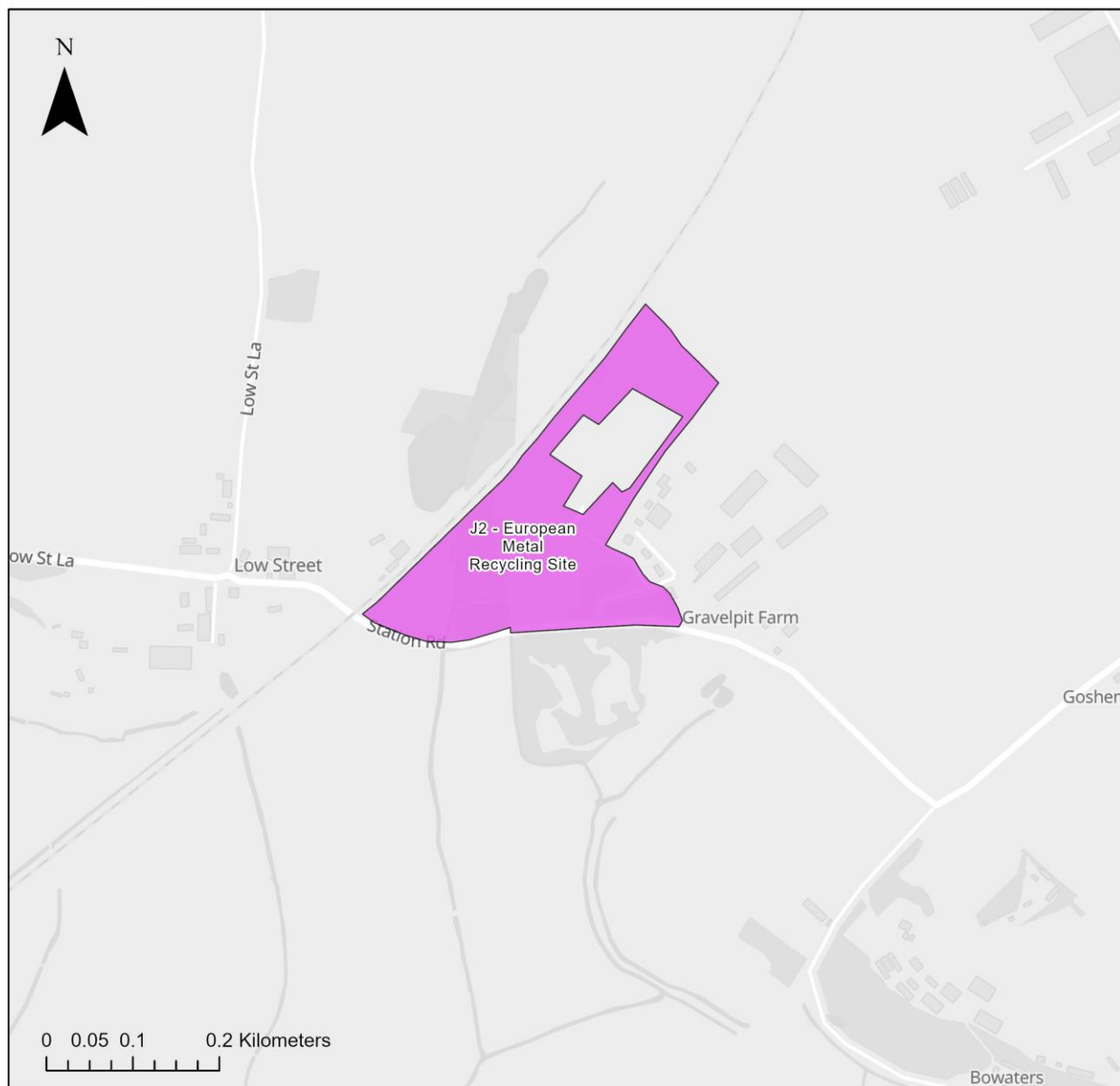
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Zoomstack

Map produced by Rob Brunt,
West Anglia Area Team,
Natural England



North Thames Estuary and Marshes Terrestrial Inverts 2024 Survey Compartments



- A - Mucking Wetlands
- B - Thameside Nature Park
- C - Mucking Landfill Site (Enovert) inc. Golden Gates/Gobions Lake
- D - East Tilbury Quarry (Walsh) Site
- E - Coalhouse Fort
- F - Intertidal Zone (between Coalhouse & Tilbury Forts)
- G - Ashfields & Goshems Farm
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- L - Fields East of Coalhouse Battery
- SSSI - Mucking Flats SSSI
- SW - Sea Wall
- TFM - Tilbury Fort Marshes

Map created 30 January 2024.
Scale: 1:6,400

Map Center: 0°24'26"E
51°28'22"N
British National Grid
Basemap: Open Street Map

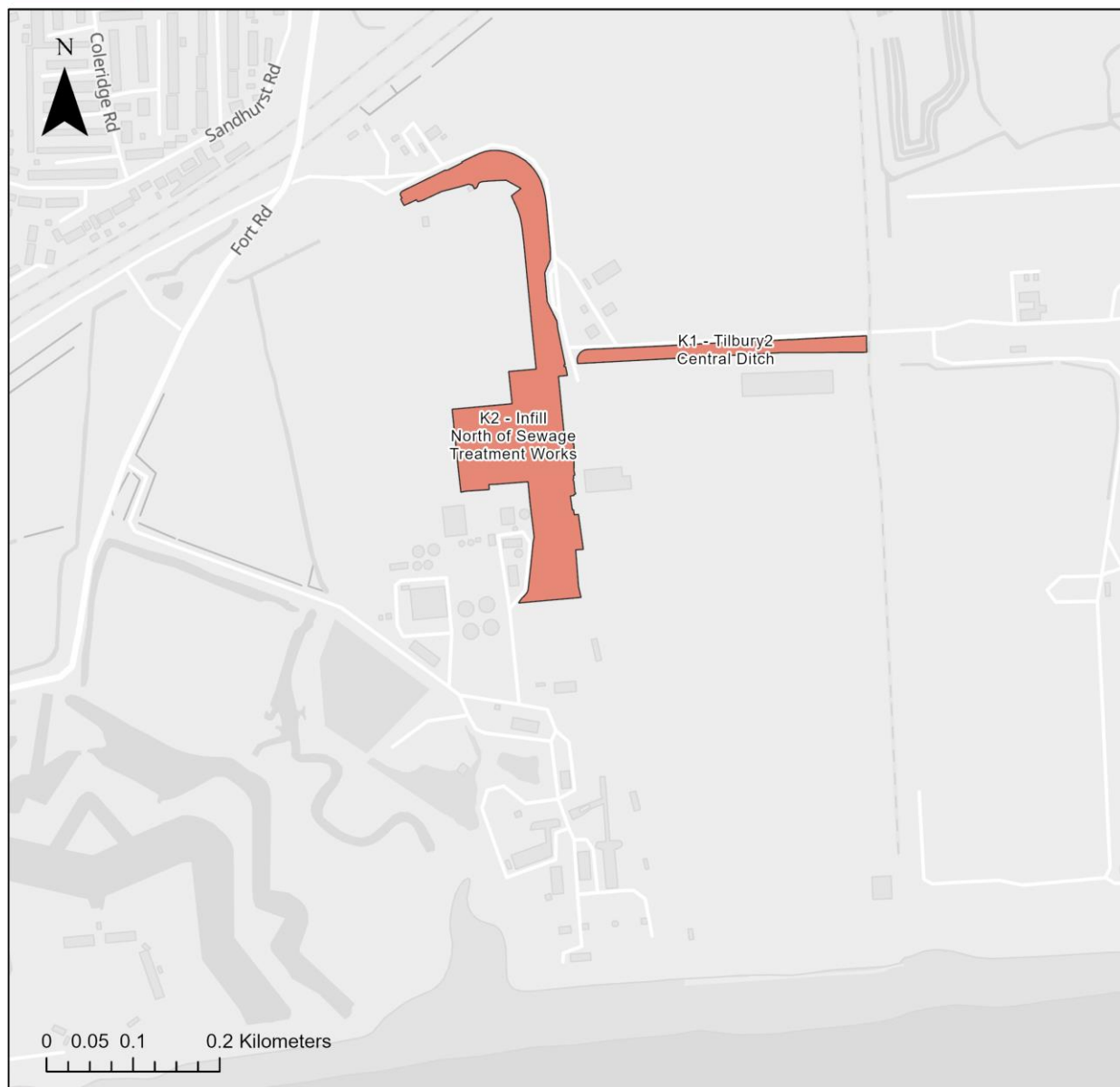
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North Thames Estuary and Marshes Terrestrial Inverts 2024 Survey Compartments



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Map created 30 January 2024.
Scale: 1:6,400

Map Center: 0°23'4"E
51°27'24"N
British National Grid
Basemap: Open Street Map

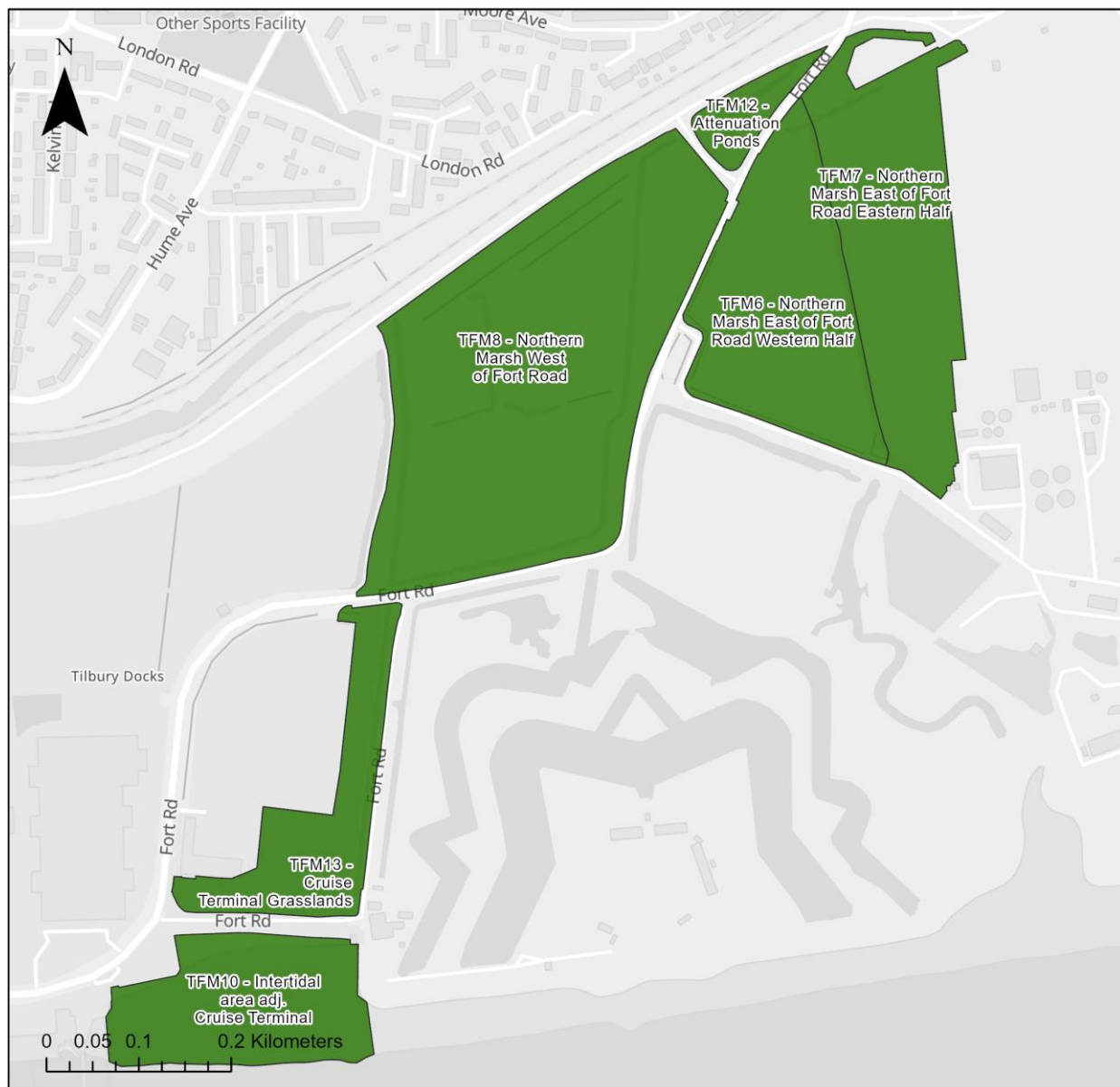
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Natural England



North Thames Estuary and Marshes Terrestrial Inverts 2024 Survey Compartments



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- SSSI - Mucking Flats SSSI
- SW - Sea Wall
- TFM - Tilbury Fort Marshes

Map created 30 January 2024.
Scale: 1:6,000

Map Center: 0°22'31"E
51°27'20"N
British National Grid
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