Stonestreet Green Solar

Biodiversity Net Gain Assessment

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1 Executive Summary

1.1.1 This Biodiversity Net Gain ('BNG') Assessment (this 'Assessment') has been prepared on behalf of EPL 001 Limited ('the Applicant') to set out the anticipated effect on biodiversity and consider the role of habitat mitigation and enhancements proposed in relation to the Development Consent Order ('DCO') application for Stonestreet Green Solar ('the Project').

1.1.2 The Project comprises the construction, operational phase and maintenance, and decommissioning of solar photovoltaic ('PV') arrays and energy storage, together with associated infrastructure and an underground cable connection to the existing National Grid Sellindge Substation.

1.1.3 The Project will include a generating station (incorporating solar arrays) with a total capacity exceeding 50 megawatts ('MW'). The agreed grid connection for the Project will allow the export and import of up to 99.9 MW of electricity to the grid. The Project will connect to the existing National Grid Sellindge Substation via a new 132 kilovolt ('kV') substation constructed as part of the Project and cable connection under the Network Rail and High Speed 1 ('HS1') railway.

1.1.4 The location of the Project is shown on **ES Volume 3, Figure 1.1: Site Location Plan (Doc Ref. 5.3).** The Project will be located within the Order limits (the land shown on the **Works Plans (Doc Ref. 2.3)** within which the Project can be carried out). The Order limits plan is provided as **ES Volume 3, Figure 1.2: Order Limits (Doc Ref. 5.3)**. Land within the Order limits is known as the 'Site'.

1.1.5 The majority of the Site comprises agricultural fields used for arable cropping and is delineated by hedgerows and tree belts, as shown on BNG Assessment **Appendix 1, Figure 1: Habitats Prior to Development**. The Site also supports hedgerow, parcels of woodland, drainage ditches, ponds, arable field margins and a section of the East Stour River. The Site extends to approximately 192ha.

1.1.6 This BNG Assessment uses the Department for Environment, Food & Rural Affairs ('Defra') 'Statutory Biodiversity Metric' calculation tool[1,2] which is based on biodiversity 'units', to assess the overall loss of the following on-Site:

- c. 163 hectares of arable crop fields;
- c. 1.48 hectares of grassland (Other neutral grassland);
- c. 0.28ha of woodland and 0.37ha of scrub (this includes a worst case assessment of total loss for the Sellindge Substation habitats); and
- c. 150 metres of native hedgerow.

1.1.7 The majority of boundary habitat is to be retained and enhanced, with the majority of initial habitat 'losses' being arable cropland, which will be replaced with flower rich grasslands of greater biodiversity value. Some temporary and permanent habitat loss is associated with the creation of infrastructure and the installation of cables.

However, the majority of habitat change is due to the change from arable cropland to grassland.

1.1.8 The proposed operational period for the Project is 40 years. During the operational period, the habitats present on-Site are anticipated to include:

- *c*. 167 hectares of grassland, classed as 'other neutral grassland', created and enhanced within the PV Arrays and within Biodiversity Improvement Areas ('BIAs') free of solar panels;
- *c*. 5.1 hectares of woodland (wet and broadleaved deciduous) as a result of habitat creation;
- c. 0.7 hectares of Traditional Orchard (a Habitat of Principal Importance) with diverse grassland understorey;
- *c*. 1.6 hectares of mixed scrub including woodland buffer planting and BIA diversification;
- c. 2.2 hectares of arable field margins seeded with a game bird seed mix as part of the farmland bird mitigation;
- *c*. 0.9 hectares of wetland features comprising habitat ponds, scrapes, swales and drainage;
- *c* 17 km of native hedgerow and treelines; and
- *c*. 1.142km enhancement of riparian zone habitats within 10m of the East Stour River and c.2.2km within 5m of drainage ditches, through conversion of arable habitats to grassland and trees to remove riparian zone encroachment.

1.1.9 The **Outline Landscape and Ecological Management Plan ('LEMP') (Doc Ref. 7.10)** sets out the management measures that would be put in place to establish and maintain the habitats created.

1.1.10 The design of the landscape proposals, through submission of detailed LEMP(s) as well as the submission of a Biodiversity Design Strategy, are secured by a Requirement in the **Draft Development Consent Order (Doc Ref. 3.1)**. These documents would detail how those proposals secure a BNG of at least 100% for habitat units, at least 10% for hedgerow units and at least 10% for river units during the operational phase of the authorised development. The final BNG Assessment included in future detailed LEMP(s) will be informed by the further surveys and ecological works that are set out within the **Outline LEMP (Doc Ref. 7.10)**.

1.1.11 The total predicted net biodiversity unit change (based on the **Vegetation Removal Plan (Doc Ref 2.7)** and the **Illustrative Landscape Drawings (Doc Ref 2.7)**) is as follows:

- Habitat units **+ 186.65 %** (507.21 baseline - 1453.91 operational stage = +946.70 units);
- Hedgerow units **+36.28%** (160.09 baseline – 218.17 operational stage units) = + 58.08 units); and

- River **+15.24%** (25.33 baseline - 29.20 operational stage = +3.86 units).

1.1.12 The creation and enhancement of these habitats represents a significant increase in the extent and quality of on-Site habitats which is assessed as providing a substantial contribution towards both local and national biodiversity enhancement objectives.

2 Introduction

2.1 Scope of Works

2.1.1 This BNG Assessment has been informed by a suite of ecological surveys conducted at the Site between 2020 and 2024 to inform **ES Volume 2, Chapter 9: Biodiversity (Doc Ref. 5.2).** All survey work has been undertaken by Lloydbore Ltd.

2.1.2 An evaluation of recent and historic aerial images and Ordnance Survey maps was also undertaken as part of the desk study.

2.1.3 This BNG Assessment has been produced in accordance with the 'Statutory Biodiversity Metric' User Guide[1] and statutory biodiversity metric tools and guides[2]. Reference is also made to the BNG 'Good Practice Principles' produced by the Chartered Institute of Ecology and Environmental Management ('CIEEM'), the Construction Industry Research and Information Association ('CIRIA') and the Institute of Environmental Management and Assessment ('IEMA') (2019[3]). This BNG Assessment confirms the predicted initial biodiversity unit loss that will occur through construction of the Project and provides details of a suitable habitat enhancement scheme in order to deliver overall BNG for the Project.

2.2 Existing Site

2.2.1 The majority of the Site comprises agricultural fields delineated by hedgerows and tree belts, as shown within BNG Assessment **Appendix 1, Figure 1: Habitat Prior to Development Plan** of this report. The Site extends to approximately 192 hectares and is currently predominantly used for arable cropping with less than 10% of the total Site area managed as grazing pasture. The Site also supports hedgerow, parcels of woodland, drainage ditches, ponds and arable field margins. The East Stour River flows in an east to west direction within, and adjacent to, the northern part of the Site.

2.2.2 The surrounding agricultural landscape supports broad land uses and habitat types similar to those present on Site, but also includes the Backhouse Wood Local Wildlife Site ('LWS') ancient woodland to the east, an operational railway and the M20 to the north, the village of Aldington to the south and intersecting roads within and beyond the Site.

2.3 The Project

2.3.1 The Project comprises the construction, operational phase and maintenance, and decommissioning of solar photovoltaic ('PV') arrays and energy storage, together with associated infrastructure and an underground cable connection to the existing National Grid Sellindge Substation.

2.3.2 The Project will include a generating station (incorporating solar arrays) with a total capacity exceeding 50 megawatts ('MW'). The agreed grid connection for the Project will allow the export and import of up to 99.9 MW of electricity to the grid. The Project will connect to the existing National Grid Sellindge Substation via a new 132 kilovolt ('kV') substation constructed as part of the Project and cable connection under the Network Rail and High Speed 1 ('HS1') railway.

2.4 Objectives of this Biodiversity Net Gain Assessment

2.4.1 The objectives of this BNG Assessment are to:

- Review the existing habitats present on-Site, including an assessment of their condition, ecological connectivity and strategic significance.
- Determine and quantify the Site's ecological baseline in the form of total biodiversity units and units retained or lost in accordance with Defra's 'Statutory Biodiversity Metric' calculation tool.
- Demonstrate that a BNG of at least 100% (for habitat units) and at least 10% for hedgerow and river units is deliverable, and which is secured by DCO Requirement;
- Provide an assessment of the Illustrative Landscape Drawings and confirm the potential BNG that these proposals are capable of delivering; and
- Identify suitable on-Site habitat creation scheme(s) that are appropriate for delivering relevant biodiversity units to offset losses.

2.5 Associated Documents

2.5.1 The Site has been subject to a suite of ecological surveys conducted between 2020 and 2024 to inform the assessment set out within **ES Volume 2, Chapter 9: Biodiversity (Doc Ref. 5.2)**. A number of survey reports, figures, assessments and mitigation strategies are referenced as part of this BNG Assessment, with the most relevant as follows:

- **ES Volume 4, Appendix 9.4: Preliminary Ecological Appraisal (Doc Ref. 5.4);**
- **ES Volume 4, Appendix 9.5a: Hedgerow Condition and Importance Assessment (Doc Ref. 5.4);**
- **Outline LEMP (Doc Ref. 7.10);**
- **ES Volume 3, Figure 9.5: East Stour River - Proximity Plans (Doc Ref. 5.3);**
- **ES Volume 3, Figure 9.6: Habitat Prior to Development Plan (Doc Ref. 5.3);**
- **ES Volume 3, Figure 9.8: Locations of Habitats of Principal Importance (Doc Ref. 5.3);**
- **ES Volume 3, Figure 9.10: Habitat Impacts Plan (Doc Ref. 5.3);** and
- **ES Volume 3, Figure 9.11: Post-Development Habitat Plan (Doc Ref.**

5.3).

2.5.2 To assess the post-development habitat baseline and the expected habitat impacts associated with construction of the Project, the following documents have been reviewed:

- **Works Plans (Doc Ref. 2.3);**
- **Illustrative Project Drawings – Not for Approval (Doc Ref. 2.6);**
- **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7); and**
- **Vegetation Removal Plan (Doc Ref. 2.8).**

3 Legislation, National Policy and Guidance

3.1 Overview

3.1.1 A summary of relevant legislation, planning policy and guidance is provided below, with further detailed provided in **ES Volume 4, Appendix 9.1: Legislation, Planning Policy and Guidance (Doc Ref. 5.4)**.

3.2 Legislation

Planning Act 2008

3.2.1 The Planning Act 2008 ('PA 2008') provides the legislative basis and defines the application process under which consent for Nationally Significant Infrastructure Projects ('NSIPs') is sought. The PA 2008 sets out that projects meeting certain defined criteria are classified as NSIPs. It provides that a DCO is required for development that is or forms part of an NSIP (section 31 PA 2008).

3.2.2 The Project is defined as an NSIP under section 14(1)(a) and 15(1) and (2) of the PA 2008.

Environment Act 2021

3.2.3 The Environment Act 2021 introduced a requirement for new developments to deliver a measurable 10% net gain in biodiversity, normally measured in 'biodiversity units' under Defra/Natural England methodology. This legal duty came into force for 'major' development projects (subject to exceptions) from 12 February 2024, under Schedule 7a of the Town and Country Planning Act 1990 (as inserted by Schedule 14 of the Environment Act 2021).

3.2.4 Regulations for biodiversity net gain came into force on 2 April 2024 for 'small sites' (those that do not fall into the category of a major development and that meet the Defra 'small site' criteria (Defra, 2024c)). In addition, it is intended the BNG will apply to all terrestrial NSIPs accepted for examination from November 2025.

3.2.5 Schedule 7a intends to encourage developers to avoid the most important existing habitat and focus habitat creation and enhancement where it will be most ecologically appropriate in helping to halt and reverse biodiversity decline.

3.2.6 In addition, Schedule 7a also:

- introduces a new system of strategic Local Nature Recovery Strategies;
- places a new general duty on public bodies to conserve and enhance biodiversity;
- introduces Conservation Covenants as a new alternative mechanism to Section 106 Agreements for securing off-site habitat provision and other conservation measures that deliver public good; and

- introduces a framework for Natural England to develop Protected Site and Species Conservation Strategies.

3.2.7 The following statutory instruments, published in February 2024, provide further detail of legal duties in relation to biodiversity net gain:

- The Biodiversity Gain Site Register Regulations 2024;
- The Biodiversity Gain Site Register (Financial Penalties and Fees) Regulations 2024;
- The Biodiversity Gain Requirements (Exemptions) Regulations 2024;
- The Biodiversity Gain Requirements (Irreplaceable Habitat) Regulations 2024;
- The Biodiversity Gain (Town and Country Planning) (Consequential Amendments) Regulations 2024; and
- The Biodiversity Gain (Town and Country Planning) (Modifications and Amendments) Regulations 2024.

Natural Environment & Rural Communities (NERC) Act 2006

3.2.8 The NERC Act places a duty on public bodies and statutory undertakers to ensure due regard to the conservation of biodiversity. Section 41 of the Act requires the Secretary of State to publish a list of species and habitats which are of 'principal importance for the purpose of conserving or enhancing biodiversity'. These lists generally reflect the species and habitats previously listed as priorities under the UK Biodiversity Action Plan[4].

3.3 Policy Context

3.3.1 Pursuant to the PA 2008, the Secretary of State ('SoS') must decide the application in accordance with any relevant National Policy Statement ('NPS'), and have regard to the relevant NPS, any local impact report, and any other matters considered both *'important and relevant'* to the decision.

3.3.2 On 17 January 2024, the overarching NPS for Energy ('NPS EN-1') and the NPS for Renewable Energy Infrastructure ('NPS EN-3') came into force. This means that these NPSs are the relevant NPSs that have effect for the determination of the Project. The main documents that may be considered relevant and important to the SoS's decision would also include:

- Policies from the adopted development plan and other relevant planning policy documents;
- National Planning Policy Framework ('NPPF')[5]; and
- Planning Practice Guidance.

3.3.3 Whilst the NPPF[4] does not contain specific policies for projects consented under the DCO regime, it can be an important and relevant consideration under the PA 2008. This would be where there are no directly applicable NPS policies, or where there are no relevant and/or up to date development plan policies.

3.3.4 Paragraph 4.1.15 of NPS EN-1 states that:

'In the event of a conflict between these documents and an NPS, the NPS prevails for the purpose of Secretary of State decision making given the national significance of the infrastructure'.

3.3.5 An assessment of the Project against relevant planning policy and guidance is set out within the **Planning Statement (Doc Ref. 7.6)**.

The Kent Biodiversity Strategy

3.3.6 The Kent Biodiversity Strategy (Kent Nature Partnership (2020)[6] is a relevant biodiversity guidance document, with targets and objectives applicable to developments in Kent. Its stated aims are as follows:

'The Kent Biodiversity Strategy aims to deliver, over a 25 year period, the maintenance, restoration and creation of habitats that are thriving with wildlife and plants and ensure that the county's terrestrial, freshwater, intertidal and marine environments regain and retain good health.

The strategy looks to protect and recover threatened species and enhance the wildlife habitats that Kent is particularly important for. It also aims to provide a natural environment that inspires citizen engagement and is well used and appreciated, so that the mental and physical health benefits of such a connection can be realised by the people of Kent.'

3.4 Principles of Biodiversity Net Gain

3.4.1 A summary of the CIEEM's Good Practice Principles for Development (2016)[7] and associated requirements (CIEEM, 2021a)[8], templates (CIEEM, 2021b)[9] and CIRIA guidance (2019a[3] and 2019b[10]) in relation to BNG are provided within BNG Assessment **Appendix 4: Principles of Biodiversity Net Gain**.

4 Method

4.1 Site survey

4.1.1 Site survey visits to categorise, map and assess on-Site habitats have been carried out between 2020 and 2024 as described below.

4.2 UK Habitat Classification and Habitat Condition Assessment

4.2.1 Habitats present on the Site have been classified and mapped using the UK Habitat Classification ('UKHab') system, following standard UKHab habitat descriptions (UK HCWG, 2020[11]). Habitat survey work was undertaken in spring 2020, in spring and summer 2022 and again in summer 2023. Habitat condition assessment surveys were also conducted in June to August 2022, June to July 2023, and January 2024 with habitat classification updated in accordance with the latest 2022 version of the 'UKHab' system (UK, HCWG, 2022[19]).

4.2.2 The UKHab mapping method does not record very small-scale habitat features such as individual trees or ponds. Where these are considered to be of importance, they have been addressed separately in the relevant habitat sections of this report.

4.2.3 Habitat Prior to Development Plans (i.e., baseline habitat plans) have been produced using the UKHab mapping method, to show the locations, extents and areas of the habitat types present on the Site. These plans are included as **Figure 1: Habitat Prior to Development Plan, Appendix 1** of this report.

4.2.4 Habitat Condition Assessment results are summarised in **Appendix 2: Habitat Condition Assessment Results** of this Assessment.

4.2.5 The initial Preliminary Ecological Appraisal ('PEA') site visit was undertaken by two appropriate qualified and experienced ecologists on 21 April 2020 and on various dates in 2022 (during spring and summer) to update the habitat baseline. The 2023 survey visits were undertaken by a Chartered Environmentalist (CEnv) and full Member of CIEEM. A survey of the Sellindge Substation was undertaken on 10 January 2024 by a full Member of CIEEM.

4.2.6 A hedgerow condition assessment was conducted separately, with full results and methods detailed within **ES Volume 4, Appendix 9.5a: Hedgerow Condition and Importance Assessment (Doc Ref. 5.4)**.

4.2.7 The hedgerow surveys were undertaken in accordance with the Hedgerow Survey Handbook (2nd edition) (Defra, 2007[12]) in conjunction with the Biodiversity Metric 4.0 Habitat Condition Assessment Sheets[13] (updated 18/5/2022). These condition assessments have been reviewed in accordance with the 'Statutory Biodiversity Metric' to ensure compatibility.

4.2.8 The full lengths of all hedgerows were surveyed, and plant species were noted along the entirety of the hedgerows on Site. Each hedgerow section was split into a hedgerow unit and given a number. Both sides of each hedgerow were surveyed.

4.2.9 Hedgerow surveys were undertaken in June - August 2022 by a qualified ecologist (MCIEEM).

4.3 River Condition Assessment

4.3.1 The river condition assessment of the East Stour River was undertaken in accordance with the guidance provided by Gurnell, et al 2020[14]. This document was used in conjunction with the Modular River Physical Survey ('MoRPh') Survey Technical Refence Manual 2022 version[15]. The MoRPh forms an integral part of the field element of the condition assessment.

Selection of survey units

4.3.2 Five representative sections of the sub-reach (sub-reach being the length of the river within the Site) of the East Stour River were selected for survey. These survey units ('modules') were selected to ensure that the survey captured a representative range of river character features, both artificial and natural.

4.3.3 Two additional survey modules that were not directly connected to the sub reach were also surveyed, but since these were not part of the sub-reach, did not have a direct bearing on the river condition assessment for the East Stour River sub-reach.

4.3.4 Each river module was based on the river width, which for the East Stour River was taken between 5 - <10m. As such, each module length was taken to be 20m, as the MoRPh methodology requires module length to be twice the river width.

Timing

4.3.5 Ideal timing for this survey type is either May / June or October when vegetation is visible but not so well developed that it makes access or observation to physical features difficult. Surveys were undertaken during low flow conditions to ensure riverbed visibility and consistent hydraulic conditions (i.e., avoiding times of temporarily high water levels or flows which may not be representative of typical conditions).

4.3.6 Once the field elements are completed, information from the field is used in conjunction with the online program cartographer.io (online Geographic Information System ('GIS') program) to calculate a river type and final river condition assessment score for the sub reach.

4.3.7 The Site visits were undertaken on 19 May 2023 and 23 June 2023 by a full member of CIEEM with other over 15 years of experience of habitat survey and ecological appraisal and a surveyor over five years of experience habitat survey and ecological appraisal. Both surveyors are River Condition Assessment ('RCA') accredited.

4.4 DEFRA's 'Statutory Biodiversity Metric' Calculation Tool

4.4.1 Defra's 'Statutory Biodiversity Metric' Calculation Tool[2] was utilised to calculate the biodiversity units on Site. This tool quantifies each habitat type into 'units' based on a number of factors including; habitat distinctiveness, area, condition and strategic significance. Further details on each of these factors is provided below.

Distinctiveness

4.4.2 Each UKHab category is automatically assigned a distinctiveness score by the metric tool, which is based on rarity, proportion of habitat protected within SSSIs (the less protected the higher the distinctiveness), UK Priority Habitat Status and the European Red List Categories. **Table 1** presents the distinctiveness categories applied in the assessment.

Table 1: Distinctiveness Categories (Panks et al., 2022a[16])

Category	Score	Example of habitat type	Intertidal habitat type	Hedgerows
Very High	8	Priority habitats as defined in Section 41 of the Natural Environment and Rural Communities ('NERC') Act 2006 that are highly threatened, internationally scarce and require conservation action, e.g. blanket bog. Small amount of remaining habitat with a high proportion unprotected by designation. Endangered or critical European red list habitats.	Natural habitats on bedrock including peat, clay or chalk.	Native species rich hedgerow with trees - with bank or ditch.
High	6	Priority habitats as defined in Section 41 of the NERC Act 2006 requiring conservation action, e.g. lowland fens.	Most other naturally occurring intertidal habitats.	Native species rich hedgerow with trees; Native species rich hedgerow - with bank or ditch; or

Category	Score	Example of habitat type	Intertidal habitat type	Hedgerows
		Remaining priority habitats not in very high distinctiveness band and other red list habitats.		Native hedgerow with trees - with bank or ditch.
Medium	4	Semi-natural habitats not classed as priority habitats but with significant wildlife benefit, e.g. mixed scrub. Arable field margins (Priority habitat) only.	Artificial hard structures with integrated greening of grey infrastructure (IGGI) Littoral coarse sediment Littoral sand	Native species rich hedgerow; Native hedgerow - associated with bank or ditch; Native hedgerow with trees; Line of trees (ecologically valuable); or Line of trees (ecologically valuable) - with bank or ditch.
Low	2	Habitat of low biodiversity value e.g. temporary grass and clover ley. Agricultural and urban land use of lower biodiversity value.	All other artificial habitats	Native hedgerow; Line of trees; or Line of trees - with bank or ditch.
Very Low	0	Little or no biodiversity value e.g. hard standing or sealed surface.	N/A	Any hedgerow containing 20% or more canopy cover of a non-native species.

Condition

4.4.3 The condition of each habitat type is assessed against specific requirements listed within the guidance documents. These requirements are specific to each habitat type and relate to physical characteristics, structural attributes, typical species present and positive and negative indicators, such as the presence of invasive species.

4.4.4 The condition assessment uses agreed standards and methodology tailored to each habitat type, which is similar to that used for Common Standards Monitoring[17] and

supersede the previously used Farm Environment Plan methodology, which can be difficult to apply for non-agricultural schemes.

4.4.5 A condition assessment is not required for certain habitat types (e.g. certain cropland and urban habitats) and some habitat types have a fixed condition score (e.g. bramble scrub).

4.4.6 The condition categories are 'Good', 'Fairly good', 'Moderate', 'Fairly poor', 'Poor' and 'N/A', the definition for each category varying according to habitat type. The applicable score multiplier for each habitat condition category is shown in **Table 2**.

Table 2: Habitat condition category scores (Panks et al., 2022a)

Condition Category	Score
Good	3
Fairly good	2.5
Moderate	2
Fairly poor	1.5
Poor	1
N/A	1

Strategic Significance

4.4.7 Strategic significance is considered separately for each individual habitat type. Only habitat specified in some form of strategy, map or plan for that area should be identified. If a strategy, map, or plan identifies an area as ecologically significant without specifying particular habitats, all habitats occurring within that area are identified as 'formally identified in a local strategy'.

4.4.8 Strategic significance relates to the spatial location of a habitat parcel and is measured at a landscape scale, taking into consideration local plans for green infrastructure and biodiversity, national character areas and national objectives. This category gives value to habitats that are situated within optimal locations which could enable biodiversity objectives to be met and gives additional biodiversity unit value to habitats that have been identified as habitats of strategic importance to that local area.

4.4.9 For the purposes of this Project, a search of published local strategies and objectives has been undertaken to identify any local priorities for targeting biodiversity and nature improvement, such as local nature recovery strategies, local biodiversity plans, national character areas objectives, Local Planning Authority (LPA) local ecological networks, shoreline management plans, estuary strategies and green infrastructure strategies.

4.4.10 **Table 3** shows the multiplier scores that apply across all pre- and post-intervention and on and off-site calculations for habitat and hedgerow units.

Table 3: Strategic significance categories for habitat and hedgerows (Panks et al., 2022a)

Category	Description	Score
High strategic significance	High potential - area/action formally identified within a local plan, strategy or policy	1.15
Medium strategic significance	Good potential - location ecologically desirable but area/action not identified in local plan, strategy or policy.	1.1
Low strategic significance	Low potential - area/action not identified in any local plan, strategy or policy; or No local strategy in place.	1

4.4.11 Strategic significance for rivers and streams is determined using the delivery of identified actions within river basin management plans, catchment plans and local plans. **Table 4** shows the strategic significance multiplier scores for river units.

Table 4: Strategic significance categories for river units (Panks et al., 2022a)

Category	Description of multiplier	Strategic multiplier
High strategic significance	Delivery of river restoration actions within: ▪ Local plans; ▪ Local nature recovery strategies ▪ River basin management plan; ▪ Catchment plans; ▪ Catchment planning system; or ▪ Priority habitats for restoration.	1.15
Low strategic significance	Low potential - area/action not identified in any local plan, strategy or policy.	1

Temporal Risk

4.4.12 Temporal and difficulty multipliers are applied to the biodiversity unit calculation in the case of habitat creation or enhancement in order to take into account the time it will likely take to achieve the target condition and how difficult it will be to achieve the desired result.

4.4.13 This gives some weighting to the level of uncertainty that these factors create.

4.4.14 There can be a negative impact on biodiversity for a period of time whilst newly created or enhanced habitat is establishing to its required level of maturity. The temporal risk accounts for this time lag.

4.4.15 Where habitat creation is delayed significantly beyond the point at which the baseline losses occur the number of years delay in starting habitat creation will be added to the below temporal risk (adjusting habitat unit score by that multiplier). **Table 5** shows the temporal risk categories and multipliers applied in the assessment.

Table 5: Temporal risk categories and multipliers (Panks et al., 2022a)

Time to Target Condition (years)	Time to Target Multiplier	Time to Target Condition (years)	Time to Target Multiplier
0	1.000	16	0.566
1	0.965	17	0.546
2	0.931	18	0.527
3	0.899	19	0.508
4	0.867	20	0.490
5	0.837	21	0.473
6	0.808	22	0.457
7	0.779	23	0.441
8	0.752	24	0.425
9	0.726	25	0.410
10	0.700	26	0.396
11	0.676	27	0.382
12	0.652	28	0.369
13	0.629	29	0.356
14	0.607	30	0.343
15	0.586	>30	0.320

4.4.16 The metric considers how difficult it is to create or enhance different habitat types based on a number of ecological factors and applies a multiplier to account for the

uncertainty of achieving the target state. **Table 6** shows the difficulty risk categories and multipliers applied in the assessment.

Table 6: Difficulty risk categories and multipliers (Panks et al., 2022a)

Difficulty of Creation Category	Difficulty of Creation Multiplier
Very High	0.1
High	0.33
Medium	0.67

Spatial Risk

4.4.17 Spatial risk reflects the relationship between the locations where a biodiversity loss is occurring and where the off-site habitat is being delivered. This risk factor is only applied to the off-site post-intervention calculations.

4.4.18 Compensatory habitat created a greater distance from the site of habitat loss will deplete a local area of natural habitat, risking reduced habitat connectivity and limiting available food sources for a variety of wildlife. Distant habitat creation is therefore attributed a higher level of spatial risk. Habitat created closer to the site of loss is attributed a lower level of spatial risk. **Table 7** shows the spatial risk categories and multipliers applied in the assessment.

Table 7: Spatial risk categories and multipliers (Panks et al., 2022a)

Score	Area habitats	Intertidal habitats	Rivers and stream habitats
1.0	Compensation inside LPA or National Character Area (NCA) of impact site.	Compensation inside same Marine Plan Area (MPA), or deemed to be sufficiently local, to site of biodiversity loss.	Within waterbody.
0.75	Compensation outside LPA or NCA of impact site but in neighbouring LPA or NCA.	Compensation outside same MPA but in neighbouring MPA.	Within catchment.
0.5	Compensation outside LPA or NCA of impact site and beyond neighbouring LPA or NCA.	Compensation outside MPA of impact site and beyond neighbouring MPA.	Outside catchment.

4.5 Assessment and Evaluation

4.5.1 The assessment approach used within this BNG Assessment has been informed by guidelines provided within *BS 42020:2013: Biodiversity: Code of practice for planning and development* (BSI, 2013)[18].

4.5.2 Section 5.5 of BS *42020:2013* states that:

'The work involved in preparing and implementing all ecological surveys, impact assessments and measures for avoidance, mitigation, compensation and enhancement should be proportionate to the predicted degree of risk to biodiversity and to the nature and scale of the proposed development.'

4.5.3 The Site assessment was undertaken in broad accordance with Defra's biodiversity metric technical supplement guidance (2023[2]) and The UK Habitat Classification User Manual (2023)[19].

Limitations

4.5.4 Interpretation of operational stage habitats requires professional judgement where detailed landscaping prescriptions are not available.

4.5.5 All habitats within the Project's Order limits have been included within the calculation to provide the baseline biodiversity values.

4.5.6 The survey of the Sellindge Substation and surroundings was completed in January 2024 (outside the main botanical survey season) as access could not be granted prior to this date. Habitat condition results however appear representative given the limited extent and types of habitats present, and the recorded habitats are a small proportion of the overall Site habitat extents.

4.5.7 A River Habitat Condition Assessment of the tributaries of the East Stour River (Horton Prior Dyke) adjacent to the Sellindge Substation was not possible. However, the Horton Prior Dyke is not expected to be impacted by the Project (specifically the Sellindge Substation works). For the purposes of this assessment, Horton Prior Dyke is classed as being in moderate condition, based upon survey results of the nearby sections of the East Stour River

4.5.8 All habitat areas and lengths have been measured manually using GIS based on the pre-development habitat plan, as such habitat areas are approximations only.

4.5.9 Automatic rounding in the Metric means that stated habitat areas and lengths may differ slightly from those shown on Figures as a result of cumulative rounding of multiple parcels and lengths, especially when habitats are broken down into many sub-units or lengths (i.e. hedgerows). The overall results in the Metric are however assesses as representative despite this limitation.

4.5.10 Strategic significance has been assessed using regional and national associated Policies, as local policies are not available.

Lifespan of this Assessment

4.5.11 The lifespan of this BNG Assessment and the ecological survey information contained herein has been determined based on CIEEM's Advice Note: On the Lifespan of Ecological Reports and Surveys (CIEEM, 2019[20]), as the presence, condition and distribution of habitats may change over time.

4.5.12 If the commencement of Site works is delayed beyond 18 months from the date of issue of this BNG Assessment, an update site walkover should be undertaken by a suitably experienced ecologist.

4.5.13 Following the update walkover, the ecologist will need to then determine whether there have been any material changes to the ecological baseline and the potential impacts of the Project.

4.5.14 If there have been any material changes, or any material changes to relevant ecology-related legislation, standing advice, best practice and/or guidance, an updated BNG Assessment should be produced by a suitably experienced ecologist.

5 Biodiversity Losses and Gains on Site

5.1 Overview

5.1.1 This section summarises the calculations of biodiversity losses and gains on Site, through habitat loss, creation and enhancement.

5.1.2 The Defra Biodiversity Metric uses separate calculations for three broad habitat groupings. The baseline and predicted net change in biodiversity units are calculated separately for each of these three broad groupings, which are as follows:

- Habitat areas ('habitat units');
- Hedgerows (linear) ('hedgerow units'); and
- Rivers and streams (linear) ('river units').

5.1.3 For ease of reference, this section of the BNG Assessment is primarily split between the pre-development baseline and the proposed operational stage habitats, with predicted net changes in each of the three biodiversity unit types contained within.

5.1.4 A biodiversity design strategy will provide details of how the landscape and biodiversity enhancement works provided as part of the authorised development will comply with the biodiversity net gain Requirement secured by the **Draft Development Consent Order (Doc Ref. 3.1)**. This Requirement secure biodiversity net gain during the operational phase of the authorised development of at least 100% for habitat units, at least 10% for hedgerow units and at least 10% for river units, calculated using the statutory biodiversity metric published by Defra on 12 February 2024).

5.1.5 The assessment presented in the following sections calculates the total predicted net biodiversity unit change (based on the **Vegetation Removal Plan (Doc Ref. 2.7)** and the **Illustrative Landscape Drawings (Doc Ref. 2.7)** in order to demonstrate that the Draft DCO Requirement is achievable.

5.2 Habitat Baseline

Calculation Overview

Habitat Type, Area and Distinctiveness

5.2.1 Calculation of the biodiversity unit baseline for the three unit types (habitat, hedgerow and river) is primarily informed by the results of the UK Habitat Classification and Habitat Condition Assessment surveys conducted on Site. Note that habitat distinctiveness is automatically assigned within the Defra BNG metric to the habitat types recorded by UK Habitat Classification survey.

5.2.2 The Habitat Condition Assessment results are summarised in **Appendix 2: Habitat Condition Assessment Results** of this Assessment.

5.2.3 GIS-based digital mapping of habitat areas and types has been used to produce the baseline areas within the Order limits.

Condition

5.2.4 The Site baseline is based upon the extent and condition of habitats as recorded during the latest habitat condition assessment surveys, which were undertaken in 2023 (raw data attached as **Appendix 2: Habitat Condition Assessment Results** of this report). The results of baseline surveys carried out in previous years are considered where appropriate.

Strategic significance

5.2.5 A search of published local strategies and objectives has been used to assigned strategic significance to the baseline and proposed habitats as set out within **Paragraphs 4.4.7 to 4.4.11** of this BNG Assessment. The basis for assigning scores is outlined below.

- Arable crops (all types): Default strategic significance assigned in the metric as low, as these are intensively managed agricultural land of generally limited agricultural value.
- Grassland - Other neutral grassland: Assigned as medium significance due to inherent value of grassland, its extent and connectivity to local habitats. While some areas qualify as a Habitat of Principal Importance ('HPI') as arable field margins, they lack the rare and scarce arable flora that characterise this habitat and so remain as medium significance (quality is accounted for as part of the condition assessment).
- Woodland and pond: Assigned as high strategic significance due to being a Habitat of Principal Importance and directly referenced within the Kent Biodiversity Strategy (Kent Nature Partnership, 2020[6]).
- Native hedgerow. Hedgerows of medium distinctiveness or higher (i.e. species rich native hedgerow) have been assigned high strategic significance due to being a HPI and directly referenced within the Kent Biodiversity Strategy (Kent Nature Partnership, 2020[4]). Native hedgerows that are not species rich, and tree lines, are assigned medium strategic significance due to their habitat connectivity and biodiversity value but note these still qualify as HPIs.
- Mixed scrub: All habitat assessed as low strategic significance as primarily comprised of common habitat types (bramble scrub is assigned low significance by default).
- East Stour River: Assigned as high strategic significance as rivers are an HPI and part of the regional River District Basin ('RDB').
- Ditches: Assigned medium significance due to inherent value of grassland, its extent and connectivity to local habitats.

Habitat unit summary

5.2.6 The Site currently supports a total of c. 507 habitat units, summarised in **Table 8**. For the full data, refer to the metric spreadsheet and BNG Assessment **Appendix 3: Detailed Results of Statutory Biodiversity Metric Calculations**.

Table 8: Baseline Habitat Units and Areas

Habitat type	Distinctiveness	Condition	Area (ha)	Ecological baseline (Total units)
Cereal crops	Low	N/A	73.02	146.04
Developed land; sealed surface	V. Low	N/A	4.06	0.00
Horticulture	Low	N/A	29.23	58.46
Lowland mixed deciduous woodland	High	Moderate	1.23	16.97
Mixed scrub	Medium	Poor - Moderate	1.18	9.94
Non-cereal crops	Low	N/A	34.66	69.31
Other neutral grassland	Medium	Poor - Good	18.17	138.19
Ponds (priority habitat)	High	Poor	0.08	1.15
Ruderal/Ephemeral	Low	Poor	0.09	0.18
Temporary grass and clover leys	Low	N/A	28.03	56.05
Watercourse footprint	V. Low	N/A	1.14	0.00
Wet woodland	High	Moderate	0.79	10.9
			Total (rounded)	507

Hedgerow unit summary

5.2.7 The Site currently supports a total of c. 160 hedgerow units, as summarised in **Table 9**. For the full data, refer to the metric and BNG Assessment **Appendix 3: Detailed Results of Statutory Biodiversity Metric Calculations**.

Table 9: Baseline Hedgerow Units and Lengths

Habitat type	Distinctiveness	Condition	Length (km)	Ecological baseline (Total units)
Line of trees	Low	Moderate - Good	0.56	3.45
Native hedgerow	Low	Poor - Good	3.71	23.03
Native hedgerow - associated with bank or ditch	High	Moderate	0.24	2.56
Native hedgerow with trees	Medium	Poor - Good	1.86	16.87
Native hedgerow with trees - associated with bank or ditch	High	Moderate - Good	1.34	24.56
Species-rich native hedgerow	Medium	Moderate	0.39	3.51
Species-rich native hedgerow - associated with bank or ditch	High	High	1.74	36.02
Species-rich native hedgerow with trees	High	Moderate - Good	0.79	15.70
Species-rich native hedgerow with trees - associated with bank or ditch	V. High	Moderate - Good	1.28	34.38
			Total (rounded)	160

River Unit Summary

5.2.8 The Site currently supports a total of c. 25 river units as summarised in **Table 10**. For the full data, refer to the metric and BNG Assessment **Appendix 3: Detailed Results of Statutory Biodiversity Metric Calculations**.

Table 10: Baseline River Unts and Lengths Units

Habitat type	Distinctiveness	Condition	Length (km)	Ecological baseline (Total units)
Ditches	Medium	Poor - Moderate	2.17	11.17
Other rivers and streams	High	Moderate	1.44	14.17

Habitat type	Distinctiveness	Condition	Length (km)	Ecological baseline (Total units)
			Total (rounded)	25

5.3 Retention, enhancement and loss of areas / units

5.3.1 The Project (based on the **Vegetation Removal Plan (Doc Ref 2.8)** and the **Illustrative Landscape Drawings – Not for Approval (Doc Ref 2.7)**) will result in the expected changes to the existing baseline habitats, broadly categorised as retention, enhancement or loss.

5.3.2 The overall unit habitat loss is calculated from the Site currently supporting the following habitat types and biodiversity units. For the full data, see BNG Assessment **Appendix 3: Detailed Results of Statutory Biodiversity Metric Calculations**.

5.4 Habitat Unit Summary

5.4.1 **Table 11** shows a summary breakdown of the habitat areas and units that would be retained, enhanced and lost on-Site. This shows the majority of arable habitats would be lost (comprising the majority of Site) while boundary grassland, scrub, woodland are to be mostly retained in terms of both areas and units. All ponds would be retained.

Table 11: Baseline Habitat Areas and Habitat Units – Retained, Enhanced and Lost

Habitat type	Area Retained (ha)	Area Enhanced (ha)	Area Lost (ha)	Habitat Units Retained	Habitat Units Enhanced	Habitat Units Lost
Cereal crops	1.96	-	71.06	3.92	-	142.12
Developed land; sealed surface	3.813	-	0.25	0.00	-	0.00
Horticulture	-	-	29.23	0.00	-	58.46
Lowland mixed deciduous woodland	1.23	-	-	16.974	-	-
Mixed scrub	0.81	-	0.37	7.08	-	2.86
Non-cereal crops	-	-	34.66	0.00	-	69.31

Habitat type	Area Retained (ha)	Area Enhanced (ha)	Area Lost (ha)	Habitat Units Retained	Habitat Units Enhanced	Habitat Units Lost
Other neutral grassland	1.94	14.76	1.48	17.05	113.112	8.05
Ponds (priority habitat)	0.08	-	0.00	1.15	-	0.00
Ruderal/Ephemeral	-	-	0.09	0.00	-	0.18
Temporary grass and clover leys	-	-	28.03	0.00	-	56.05
Watercourse footprint	1.14	-	0.00	0.00	-	0.00
Wet woodland	0.51	-	0.278	7.07	-	3.84

Hedgerow Unit Summary

5.4.2 **Table 12** below shows the majority of the Site hedgerow network would be retained (in terms of both lengths and hedgerow units) with minimal losses overall.

5.4.3 Note it is assumed that the entire retained hedgerow network will be enhanced but that hedgerows that are already in good condition have been assessed as retained to avoid errors in the metric.

Table 12: Baseline Hedgerow Lengths and Units – Retained, Enhanced and Lost

Habitat type	Length Retained (km)	Length Enhanced (km)	Length Lost (km)	Hedgerow Units Retained	Hedgerow Units Enhanced	Hedgerow Units Lost
Line of trees	0.45	0.12	0.00	2.94	0.51	0.00
Native hedgerow	3.18	0.44	0.08	21.16	1.37	0.50
Native hedgerow - associated with bank or ditch	0.16	0.08	0.00	2.19	0.37	0.00
Native hedgerow with trees	0.93	0.91	0.02	10.35	6.36	0.16
Native hedgerow with trees - associated with bank or ditch	1.02	0.29	0.03	20.12	3.84	0.60
Species-rich native hedgerow	0.17	0.21	0.02	2.35	0.96	0.21

Habitat type	Length Retained (km)	Length Enhanced (km)	Length Lost (km)	Hedgerow Units Retained	Hedgerow Units Enhanced	Hedgerow Units Lost
Species-rich native hedgerow - associated with bank or ditch	1.72	-	0.02	35.62	0.00	0.39
Species-rich native hedgerow with trees	0.70	0.08	0.00	14.57	1.09	0.04
Species-rich native hedgerow with trees - associated with bank or ditch	1.18	0.09	0.01	32.43	1.67	0.28

River Unit Summary

5.4.4 **Table 13** below shows the entire river network to be enhanced (through removal of encroachment (through removal of arable land use and landscape enhancement proposals) within the riparian zone). No river units would be lost.

Table 13: Baseline River Lengths and Units – Retained, Enhanced and Lost

Habitat type	Length Retained (km)	Length Enhanced (km)	Length Lost (km)	River Units Retained	River Units Enhanced	River Units Lost
Ditches	-	2.17	-	-	11.17	-
Other rivers and streams	0.30	1.14	-	1.22	10.72	-

Retention and Losses Description

Key Principles

5.4.5 The habitat retention and loss areas and units have been calculated with reference to key control documents and design principles as discussed below.

Retention

5.4.6 All boundary grassland margins have been assessed as retained aside from where grassland removal is shown within the **Vegetation Removal Plan (Doc Ref. 2.8).** Any grassland present within BIA and boundary areas is to be retained and enhanced.

5.4.7 While arable cropland is to be removed to create the PV Array grassland (i.e. within security fence and managed as operational solar farm), existing pasture will be retained (and enhanced through management).

5.4.8 All woodlands, ponds and the vast majority of hedgerows are assessed as retained based on the **Vegetation Removal Plan (Doc Ref. 2.8)**.

Losses

5.4.9 The Project is assessed as removing all arable cropland, with the exception of the retained cable route. Note grassland arable margins are retained, as described within retention and enhancement. The quantums of woodland, hedgerow and scrub removal required within the Site have been calculated from the **Vegetation Removal Plan (Doc Ref. 2.8)** and assessment of the layout and **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7)**.

5.4.10 Where minor areas of new habitat are created within retained grassland areas, this has been assessed on a case-by-case basis, noting this is limited to the BIAs that are being created on retained grassland areas. Generally, creation of wetland features or extensive plantings are assessed as a loss of grassland. Where minor areas of scrub (of less than 25m²) are proposed, these are below the Minimum Mapping Unit ('MMU') size in accordance with UKHab guidance (2022)[11] and classed as retention. Similarly, where tree planting is to take place within grassland, this is generally assessed as retention and enhancement of the existing grassland habitat type.

5.4.11 On a precautionary basis, the habitats present within the existing National Grid Sellindge Substation area (mixed scrub, wet woodland and ruderal/ephemeral) have been assessed as being removed in their entirety. While proposals are not yet finalised for this area, it is expected that full loss of these habitats is unlikely to occur and that such habitat loss would be minimised and not encompass the entire area. This BNG Assessment has however been produced using a worst-case assessment that assumes total loss.

5.4.12 Where temporary grassland losses are required to facilitate the cable route, internal haul roads or access as part of construction, these are to be reinstated through reinstatement of existing topsoil, turf or re-seeding. As such, this meets the criteria for temporary losses and is stated as retained in the metric in accordance with BNG user guide criteria[1] as follows:

'Accounting for temporary losses

You do not need to account for habitat loss where there are temporary impacts to a habitat and the area can be restored to both:

-baseline habitat type within two years of the initial impact; and

-baseline condition within two years of the initial impact'

5.4.13 Very minor temporary loss of habitat within the riparian zone could occur from the installation of crossing points (i.e., temporary bank to bank bridges). Temporary crossing points have been accounted as 'temporary losses' as per the above definition, noting that the permanent crossings comprise underground cables and therefore will not alter above ground habitats.

5.4.14 Where hedgerow is to be lost as part of construction but later reinstated, this is still accounted for as a loss (due to the time required for hedgerow re-establishment in excess of 2 years).

Enhancement

5.4.15 Where a habitat is to be retained within the Project and subject to long term habitat management, this will be in accordance with the **Outline LEMP (Doc Ref. 7.10)**.

5.4.16 Enhancement principles are provided within the following section to enable the interpretation of the post development landscape.

Enhancement and Creation Description

Key Principles

5.4.17 Habitat enhancement and creation areas and units have been calculated with reference to the following key documents and design principles.

Habitat enhancement interpretation

5.4.18 The broad principles for retention and enhancement of existing habitats are provided within the **Outline LEMP (Doc Ref. 7.10)**. For the purposes of the assessment, it is assumed that the entire retained hedgerow network, grassland areas and riparian zone of the East Stour River will be enhanced through a combination of beneficial habitat management and cessation of agricultural activities.

5.4.19 Due to the limited proposed interventions for retained scrub, woodlands and ponds within the **Outline LEMP (Doc Ref. 7.10)**, these habitats are assessed to be retained but not enhanced.

Condition

5.4.20 The retained and enhanced 'other neutral grassland' within the BIAs is assigned a predicted condition score of good, given the use of diverse meadow mixes, proposed management primarily for biodiversity, opportunity for further diversification through natural plant colonisation from adjacent areas seeded with diverse meadow mixes, elimination of nutrient enrichment from adjacent on-Site agricultural land and cessation of damage from agricultural machinery.

5.4.21 Retained and enhanced pasture has been assigned a predicted condition score of moderate, the same as created areas seeded with BS MeadowMax or equivalent. It is likely that the enhanced swards could achieve greater structure and diversity than 'moderate', but the assigned condition level overall reflects the distinction

between the pasture mix seeding (and retained pasture) and meadow mix seeded areas across the Site.

5.4.22 Hedgerows across the Site are predicted to achieve 'good' condition given the extensive relaxation of hedgerow management within the Site and the reinforcement of existing hedgerows with native, species rich plantings.

Strategic Significance

5.4.23 The other neutral grassland and hedgerows to be enhanced are assigned the same strategic significance scores within the Metric as for the on-Site habitat baseline equivalent (medium distinctiveness, semi-natural habitats not classed as priority habitats but with significant wildlife benefit, e.g. mixed scrub) as follows:

- Grassland - Other neutral grassland: Assigned as medium significance due to inherent value of grassland, its extent and connectivity to local habitats.
- Woodland, pond and native species rich hedgerow: Assigned as high strategic significance due to being a Habitat of Principal Importance and directly referenced within the Kent Biodiversity Strategy (Kent Nature Partnership, 2020).
- Mixed scrub: All habitat assessed as low strategic significance as primarily comprised of common habitat types (bramble scrub is assigned low significance by default).

European Protected Species Mitigation Exclusions

5.4.24 Based upon understood legal precedent and in response to consultation feedback (Kent Wildlife Trust, 2023), habitats that are created or enhanced to compensate for impacts to the habitats of European Protected Species ('EPS') can be counted towards achieving a position of no net loss of biodiversity units but cannot be counted towards a predicted net gain in biodiversity units. This means that EPS compensatory habitats cannot be used to allow a project to cross the threshold from no net loss to net gain.

5.4.25 In this case however, the extent of EPS compensatory habitats required is so small (due to minimal loss of EPS habitats and therefore minimal need for EPS compensation) that they fall well below the threshold of no net loss.

5.4.26 While the Metric is not designed to account for such artificial distinctions, a 'best fit approach' has been included within this assessment.

5.4.27 The expected EPS compensatory habitats (which would be confirmed as part of a final EPS mitigation licence issue) are small areas contributing a relatively minor percentage of operational phase habitats and units. Furthermore, such areas have not been designed solely for EPS as they fulfil other purposes in the broader ecological and landscape strategies.

5.4.28 The proposed EPS compensatory habitat requirements in terms of habitat creation and enhancement have been calculated from the draft licences (Lloydbore, 2024)

produced for the Natural England pre-screening submission service (noting these are draft only). The habitats are limited within the Project to the following:

Great crested newt compensation:

- Loss of suitable great crested newt (*Triturus cristatus*) terrestrial habitat (suitable habitat within 250m of ponds with confirmed presence) is limited across the Site to minor boundary margins of approx. 1.75ha, noting no aquatic habitat loss is to occur.
- This is compensated for by the enhancement of a small grassland field between Fields 10 and 12 and the south east corner of Field 8 as BIAs to potentially accommodate construction stage translocations. Enhancement of these existing grassland areas (*c*. 0.93ha for the Fields 10-12 BIA and *c*. 0.29ha of the Field 8 BIA) total *c*. 1.09ha.

Hazel dormouse compensation:

- Like for like compensation of hedgerow removals accounts for 150m of created hedgerow.
- Like for like compensation of scrub loss accounts for c. 0.28ha of the habitat creation proposals.

5.4.29 As the EPS mitigation areas are not required to provide net gain, are draft only, fulfil other ecological and landscape benefits and contribute only a minor habitat area and unit amounts to the calculation, they have been identified within the Metric spreadsheet but no artificial modification or removal of units or areas in the Metric has been applied.

Habitat creation interpretation

5.4.30 Habitats to be created within the Site have been interpreted from the **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7)**. The broad principles for creation of habitats are provided within the **Outline LEMP (Doc Ref. 7.10)**. BNG Assessment **Appendix 1, Figure 2: Habitat Impacts Plan** and **Figure 3: Proposed Post Development Habitat Plan** have accounted for the retention of boundary grassland, rather than small areas of habitat creation suggested on the **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7)**. The broad habitat enhancement (as detailed above) and creation measures factored into this Assessment have been developed through coordination between the Project ecologist, Project landscape architect, the Applicant and wider Project team. These broad habitat measures will be subject to review and further development at the detailed habitat design stage, through submission of a Biodiversity Design Strategy as secured by a Requirement of the **Draft Development Consent Order (Doc Ref. 3.1)**.

5.4.31 The extensive areas of arable habitat that will be removed within the PV Arrays and BIAs be replaced by newly created habitats. Additionally, some habitat creation (rather than enhancement) will occur within existing BIA grassland at small scale in order to diversify pre-existing habitats (i.e. creation of ponds and scrapes, scrub areas and woodland screening belts).

Habitat creation classifications and condition

5.4.32 The interpretation of habitat creation as shown within the **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7)** and detailed within the Metric spreadsheet is summarised below, including the assigned condition:

- PV Array EM1 seeded grassland will be classed as the medium distinctiveness 'Other Neutral Grassland', to reflect that grassland will be unlikely to meet the quality required for 'Lowland Meadow'. Condition has been assigned as 'good' to reflect the seed mix and management.
- PV Array 'MeadowMax- grassland' will be classed as the medium distinctiveness 'Other Neutral Grassland', given the diverse grassland seed mix proposed (more diverse than intensive pasture mixes), management and expected colonisation from adjacent seedbanks. 'Moderate' condition has been assigned to this mixture, acknowledging it is not as diverse as the EM1 mix.
- It is assessed that, within PV Arrays, grassland habitat underneath the panels will be able to achieve the same condition score as grassland habitat that is not under panels. This is because grassland species will be able to grow beneath the panels (based upon the height and structure of the PV panels, which will allow sufficient light and moisture to reach ground level). While the areas under panels may include a portion of shade tolerant species, this is overall not assessed to change the proposed habitat type, predicted condition score or introduce any need to distinguish between areas below and around panels in the assessment.
- Internal access tracks through the PV Arrays will function as part of the wider grassland given it will be subject to grass seeding, but to reflect the use of permeable grass-paving hardstanding surface (and lack of a best fit urban habitat category in BNG) has been assigned as modified grassland in poor condition - seeded with a five species fescue and bent grass mix.
- Boundary grassland seeding EM10 is assigned as 'Other neutral grassland, tussocky' and assigned 'good' condition to reflect the proposed seed mix, management.
- Meadow mixtures and seeding within the BIAs has been classed as the medium distinctiveness 'Other neutral grassland' (similar to the PV Array grassland).
- New woodland areas have been assigned as meeting the species composition for 'Lowland mixed deciduous woodland' and 'Wet woodland', from review of the native mixes proposed. Assessed as achieving 'moderate' condition to account of a degree of uncertainty regarding successful establishment and maturation, which occurs over long timescales.
- The new orchard has been assessed as meeting HPI criteria as it will be non-intensively managed with a species rich grassland understorey. It has been assessed as meeting 'moderate' condition to account for establishment on nutrient rich arable soils and that ancient/veteran trees are required to meet 'good' condition for this habitat type.
- Scrub / woodland edge planting has been classed as 'mixed scrub' and is

predicted to achieve 'good' condition, to reflect the diverse native mix proposed and proposed management.

- Created ponds have been assessed as meeting the criteria for a HPI and are predicted to achieve 'good' condition to reflect the targeting of these features as wildlife habitat ponds.
- Created habitat scrapes have been classed as wetland features and are predicted to achieve 'moderate' condition to reflect wet meadow seeding with EM8 Wet Meadow mixture, but taking account of some uncertainty over maintenance of water levels.
- Sustainable urban drainage features have been classified as 'eutrophic standing water, sustainable urban drainage' and are predicted to achieve 'moderate' condition, to reflect their creation to benefit biodiversity but with their primary functionality being to provide drainage.
- Hedgerows have been classed as native and species rich based upon the proposed species mixes and classified as with or without trees depending on details within the **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7).**
- The remaining infrastructure areas (substations, access roads, invertors etc) have been aggregated as 'urban - developed land, sealed surface' for simplicity within the Metric, noting a value of zero biodiversity units.

Strategic Significance

5.4.33 A search of published local strategies and objectives (as identified in **Section 4** of this BNG Assessment) has been used to assign strategic significance levels to the habitats outlined in the **Illustrative Landscape Drawings (Doc Ref. 2.7)** using the strategic significance criteria detailed within **Section 4**. The basis for assigning scores for habitats not addressed within baseline or enhanced habitats is outlined below:

- Orchard creation is assigned a strategic significance of 'high' to acknowledge this habitat can meet HPI criteria.
- Created habitat scrapes are assigned a strategic significance of 'high' to acknowledge wetland feature creation and enhancement of the East Stour River riparian corridor.
- Sustainable urban drainage features are assigned a strategic significance of 'moderate' to acknowledge additional wetland habitat creation but that these features will be principally for drainage functionality.
- Bird crop strips are assigned a precautionary strategic significance of 'low' to match baseline arable habitats but noting this habitat is managed as specific mitigation for Species of Principal Importance (‘SPI’s).

5.5 Habitat Enhancement and Creation Summary

5.5.1 The Project is anticipated to deliver the following created habitats and associated biodiversity units on-Site, which are summarised in **Tables 14** to **16** below. The final BNG Assessment will be completed post final design and will confirm how the

Project will secure a BNG of at least 100% (for habitat units), at least 10% for hedgerow units and at least 10% for river units. The submission of a biodiversity design strategy which provides details of how the landscape and biodiversity enhancement works provided as part of the authorised development will comply with these BNG percentages (as the BNG requirement) is secured by Requirement in the **Draft Development Consent Order (Doc Ref. 3.1)**.

5.5.2 For the full data, refer to the metric and BNG Assessment **Appendix 2: Detailed Results of Statutory Biodiversity Metric Calculations**.

Habitat Units

5.5.3 The Project is anticipated to deliver a total of c. 1,247 created habitat units. These will be created across 165 hectares. Note that the vast majority of habitat units are a result of grassland creation either within the PV Arrays or BIAs.

5.5.4 Details of the default time to target condition and difficulty multipliers can be found within BNG Assessment **Appendix 2: Detailed Results of Statutory Biodiversity Metric Calculations**.

Table 14: Created Habitat Units – Areas and Units

Habitat type	Distinctiveness	Condition	Area Created (ha)	Habitat Units Delivered
Arable field margins game bird mix	Medium	N/A	2.21	9.81
Developed land; sealed surface	V. Low	N/A -Other	4.061	0.00
Lowland mixed deciduous woodland	High	Moderate	3.068	4.47
Mixed scrub	Medium	High	0.77	7.11
Modified grassland	Low	Poor	2.38	4.59
Other neutral grassland (Meadow max within PV Arrays))	Medium	Moderate	100.116	737.63
Other neutral grassland (EM1 within PV Arrays))	Medium	Good	27.22	251.63
Other neutral grassland (EM8 boundaries and BIAs))	Medium	Good	14.631	135.24
Other neutral grassland (BIA 26-29 Wet Meadow))	Medium	Good	9.245	85.46
Ponds (priority habitat)	High	Good	0.09	1.02
Sustainable drainage system	Low	Moderate	0.25	0.67
Temporary lakes ponds and pools	High	Moderate	0.44	3.68
Traditional orchards	High	Moderate	0.66	4.44
Wet woodland	High	Moderate	0.251	1.36
			Total (rounded)	1247

5.5.5 Enhancement of existing grassland (margins and existing pasture) will deliver a total of c. 153 habitat units (which includes the retained baseline units) as shown in **Table 15**.

Table 15: Enhanced Habitat Units – Areas and Units

Habitat type	Distinctiveness	Existing Condition	Target Condition	Area Enhanced (ha)	Habitat Units Delivered
Other neutral grassland (proposed BIA between field 10 and 11 - but already good condition)	Medium	Good	Good	0.934	- (already good condition)
Other neutral grassland (Grassland margins to be enhanced through management)	Medium	Poor - Moderate	Good	10.108	114.66
Other neutral grassland (Field 8 BIA existing pasture to be enhanced)	Medium	Poor	Good	5.194	38.88
				Total (rounded)	153

Hedgerow Units

5.5.6 To simplify the calculation of hedgerow creation, all created hedgerow lengths have been aggregated into a single category of species-rich native hedgerow (medium distinctiveness good condition), based upon the planting mix within the **Outline LEMP (Doc Ref. 7.10)**, which delivers c. 49 hedgerow units.

5.5.7 Details of the default time to target condition and difficulty multipliers can be found within BNG Assessment **Appendix 2: Detailed Results of Statutory Biodiversity Metric Calculations**.

5.5.8 The enhancement of the existing hedgerow network overall delivers c. 27 hedgerow units as shown in **Table 16**.

Table 16: Enhanced Hedgerow Units – Length and Units

Habitat type	Distinctiveness	Existing Condition	Target Condition	Length Enhanced (km)	Hedgerow Units Delivered
Line of trees	Low	Moderate - Good	Good	0.12	0.71
Native hedgerow	Low	Poor - Good	Good	0.44	2.71
Native hedgerow - associated with bank or ditch	High	Moderate	Good	0.08	0.99
Native hedgerow with trees	Medium	Poor - Good	Good	0.92	10.74
Native hedgerow with trees - associated with bank or ditch	High	Moderate - Good	Good	0.30	5.51
Species-rich native hedgerow	Medium	Moderate	Good	0.21	2.46
Species-rich native hedgerow with trees	High	High	Good	0.08	1.56
Species-rich native hedgerow with trees - associated with bank or ditch	High	Moderate - Good	Good	0.09	2.30

River Units

5.5.9 The enhancement of the riparian zone (removal of arable encroachment) for both ditches and rivers delivers a total of c. 26 river units.

5.5.10 Details of the encroachment multipliers can be found within BNG Assessment **Appendix 2: Detailed Results of Statutory Biodiversity Metric Calculations**.

5.6 Conclusion

5.6.1 The post-development habitats shown on the **Illustrative Landscape Drawings – Not for Approval (Doc Ref. 2.7)** are predicted to result in a positive biodiversity change on Site as shown in **Table 17** below. For the detailed results, see the Metric spreadsheet and BNG Assessment

5.6.2 **Appendix 2: Detailed Results of Statutory Biodiversity Metric Calculations**.

Table 17: Overall net biodiversity unit change

Description	Unit	Net Change
Total net unit change (including all on site retention, creation and enhancement	Habitat	**+ 186.65 %** (507.21 baseline - 1453.91 post development = +946.70 units)
	Hedgerow	**+36.28%** (160.09 baseline – 218.17 post development = +58.08 units)
	River	**+15.24%** (25.33 baseline- 29.20 post development = +3.86 units)

5.6.3 The above indicates a significant increase of habitat and hedgerow units. The river unit increase represents the retention of the existing river and drain network and terrestrial habitat enhancement within the riparian zone.

5.6.4 The submission of the detailed LEMP(s) as well as the submission of a Biodiversity Design Strategy are secured by a Requirement in the **Draft Development Consent Order (Doc Ref. 3.1)**, which would detail how those proposals secure a BNG during the operational phase of the authorised development of at least 100% for habitat units, at least 10% for hedgerow units and at least 10% for river units. The final BNG Assessment included in future detailed LEMP(s) will be informed by the further surveys and ecological works that are set out within the **Outline LEMP (Doc Ref. 7.10)**.

5.6.5 While the metric shows 'trading rules not satisfied', this is a result of the worst-case wet woodland loss for the Sellindge Substation Area of -2.48 habitat units. The trading rules require higher distinctiveness habitat losses to be compensated with the exact same habitat type. There is a net increase overall in woodland units (+1.99 habitat units in this worst case assessment) with the trading rules not being met due to the division between the created wet and lowland, deciduous woodland habitat types. In the eventuality additional wet woodland is required, the Site has sufficient space to accommodate this habitat type.

6 Creation, Enhancement and Long-Term Management of Habitats

6.1 Overview

6.1.1 Ongoing, appropriate habitat management and monitoring will be required to deliver the proposed biodiversity units.

6.1.2 The detailed habitat creation, enhancement and management prescriptions will be set out in detailed LEMP(s), with the overarching requirements set out in the **Outline LEMP (Doc Ref. 7.10)**.

6.1.3 The habitat management prescriptions that will be required to secure the long-term ecological value of the proposed habitats, and the associated net gain in biodiversity units, will comprise basic vegetation management prescriptions that are compatible with the continued operational phase and management of the Project. The biodiversity net gain secured by a Requirement in the **Draft Development Consent Order (Doc Ref. 3.1)** is therefore achievable, deliverable and appropriate to the wider land use.

6.1.4 The detailed LEMP(s) will also set out (where the results from monitoring show that conservation aims and objectives of the **Outline LEMP (Doc Ref. 7.10)** are not being met) how contingencies and/or remedial action will be identified, agreed and implemented so that the development still delivers the fully functioning biodiversity objectives of the originally approved Project.

6.2 Management of Key Habitats to Meet Target Condition

6.2.1 An overview of the target condition criteria and their feasibility for key habitats to be created, managed and enhanced is provided below.

6.2.2 Criteria have been taken from 'Natural England Joint Publication JP039 The biodiversity metric 4.0: auditing and accounting for biodiversity'[21] and 'Statutory Biodiversity Metric' Condition assessment sheets'[2].

6.2.3 Further detail on habitat management prescriptions and associated requirements for monitoring of habitat establishment (and thereby condition) can be found within the **Outline LEMP (Doc Ref. 7.10)**.

Other neutral grassland

6.2.4 Creation and enhancement of other neutral grassland is achievable within both the PV Arrays, BIAs and boundary habitats, noting that while structure and species composition will vary, both areas should be able to achieve this habitat through increasing species diversity. Note that while several differing grass mixes are proposed on Site (i.e., PV Array diverse pasture, other neutral grassland of

tussocky, wet or flower rich types), the below condition criteria are applicable to all as 'medium distinctiveness' grasslands.

6.2.5 The condition criteria for this grassland type are summarised below, noting that generally;

- Good condition passes five of six criteria including those essential for good condition;
- Moderate condition passes three of four criteria including those essential for moderate condition; and
- Poor condition passes less than three, or more than three but fails essential criteria.

6.2.6 Further detail is provided within 'Natural England Joint Publication JP039' as further methodology is specified but the above forms a useful guide. A summary of the six applicable criteria is provided below.

- The appearance and composition of the vegetation closely matches characteristics of the specific grassland habitat type (see UKHab[16] definition);
- Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm). Essential for achieving moderate condition;
- Cover of bare ground between 1% and 5%;
- Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%;
- There is an absence of invasive non-native species (as listed on Schedule 9 of Wildlife and Countryside Act, 1981[22]);
- Combined cover of species indicative of sub-optimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area; and
- There are greater than 9 species per metre squared. NB - This criterion is essential for achieving good condition (non-acid grassland types only).

Woodland and forest - Lowland deciduous mixed and wet

6.2.7 Management will ensure overall habitat condition of moderate or better by achieving the following parameters including:

- Five or more woody species are distributed across the woodland;
- An absence of invasive non-native species (as listed on Schedule 9 of the Wildlife and Countryside Act 1981 ('WCA 1981')) and species indicative of sub-optimal condition will make up less than 5% of the total area;
- Deadwood is present throughout (this can be provided as a result of any vegetation removal); and

- >80% of tree canopy and understorey shrubs.

6.2.8 The management measures are then set out within the **Outline LEMP (Doc Ref. 7.10)** to ensure establishment and through control of any invasive species identified as part of ecological monitoring.

Traditional Orchard

6.2.9 An orchard is proposed within the south east of the Site (Field 22) which will include a meadow understorey as detailed above and be managed in a non-intensive manner (i.e., limited use of pesticides). Its non-intensive and non-commercial management along with management of grassland as meadow means that once established this will meet the criteria for the HPI of 'Traditional Meadow'.

6.2.10 It should be noted that 'good' condition requires the presence of veteran or ancient trees, which cannot be met through new habitat creation.

6.2.11 'Fairly good or moderate' condition can however be met by meeting the following targets which are all achievable within the Project:

- Less than 5% of fruit trees are smothered by scrub. Small patches of dense scrub and/or scattered scrub growing between trees can be beneficial to biodiversity, however these should occupy less than 10% of ground cover;
- There is evidence of formative and/or restorative pruning to maintain longevity of trees;
- Presence of standing and/or fallen dead wood: all mature trees have standing or fallen branches, stems and stumps greater than 10 cm diameter associated with them;
- At least 95% of the trees are free from damage caused by humans or animals e.g., browsing, bark stripping or rubbing on non-adjusted ties;
- Sward height is varied (between 5 cm and 30 cm) and small patches of bare ground are present creating structural diversity. Up to 10% cover of patches of tall herb vegetation may be present;
- Species richness of the grassland is equivalent to a medium, high, or very high distinctiveness grassland; and
- There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981) and species of sub-optimal condition make up less than 10% of ground cover.

Heathland and shrub- mixed scrub

6.2.12 The scrub areas within the Project include woodland buffer plantings and patches within the BIAs to create the scrub / grassland mosaic favoured by reptiles.

6.2.13 Management will ensure overall habitat condition of high (all five parameters), moderate (three to four) or low (zero to two) better by achieving a number of the following parameters:

- Habitat is representative of UKHab description (where in its natural range).

There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box, which can be up to 100% cover);

- There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs;
- There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981) and species indicative of sub-optimal condition make up less than 5% of ground cover;
- The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s); and
- There are clearings, glades or rides present within the scrub, providing sheltered edges.

6.2.14 The indicative species mix and habitat management proposed within the **Outline LEMP (Doc Ref. 7.10)** means that good condition should be achievable in most if not all locations.

Lakes - Ponds (priority habitat)

6.2.15 New naturalised ponds with marginal wetland habitats are to be created to enhance Site ecology and form part of the BIAs located throughout the Site.

6.2.16 Management will ensure overall habitat condition of moderate or better by achieving a number of parameters including:

- A range of depths achieved through 'shelving' and with a basin component of ideally a depth of 0.5m or more;
- Ideally pond slopes are shallow, less than 1:5 (12°) and preferably less than 1:20 (3°);
- A diverse range of marginal, emergent and submerged plants;
- A diverse faunal community of invertebrates and other species (i.e. amphibians); and
- Such parameters will require review against the use of the ponds as part of the sustainable drainage system ('SuDS'), but noting that even small seasonally wet ponds are of value to a range of species.

6.2.17 Management may include occasional vegetation and sediment removal (including any invasive species).

Native hedgerow

6.2.18 Existing and newly created native, species rich hedgerow (qualifying as a HPI) will both be subject to management and enhancement to maintain or improve their condition.

6.2.19 The condition criteria for hedgerows are summarised below, noting that generally;

- Good condition fails no more than two criteria;
- Moderate condition fails no more than four criteria; and
- Poor condition fails a total of more than four criteria.

6.2.20 Further detail is provided within '*Natural England Joint Publication JP039*'[2] as further methodology for condition criteria but the above forms a useful guide.

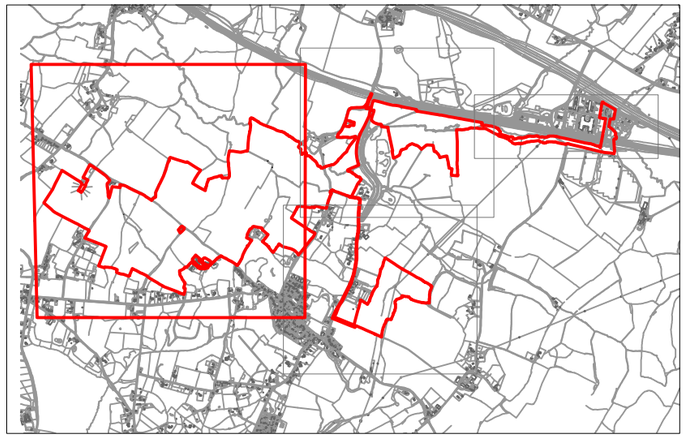
- Criteria A1 Height - >1.5 m average along length
- Criteria A1 Width - >1.5 m average along length
- Criteria B1 Gap - hedge base. Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')
- Criteria B2 Gap - hedge canopy continuity. Gaps make up <10% of total length and no canopy gaps >5 m
- Criteria C1 Undisturbed ground and perennial vegetation. 1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length:
  - measured from outer edge of hedgerow, and
  - is present on one side of the hedge (at least)
- Criteria C1 Undesirable perennial vegetation. Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.
- Criteria D Invasive and neophyte species. >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species.
- Criteria E Current damage. >90% of the hedgerow or undisturbed ground is free of damage caused by human activities.

6.2.21 Assessment of the landscape plans indicates that moderate condition should be easily achievable and good condition achievable if management and establishment is successful in maintaining the Criteria A1 and A2 height and widths.

Appendix 1: Figures

Contents:

Notes:
* This figure is the same as **ES Volume 3, Figure 9.6: Habitat Prior to Development Plan (Doc Ref. 5.3)**.
** This figure is the same as **ES Volume 3, Figure 9.10: Habitat Impacts Plan (Doc Ref. 5.3)**.
*** This figure is the same as **ES Volume 3, Figure 9.11: Habitat Prior to Development Plan (Doc Ref. 5.3)**.



5535-LLB-XX-XX-DR-Ec-0150-S4-P01_Figure 1

5535-LLB-XX-XX-DR-Ec-0151-S4-P01_Figure 1

LEGEND:

- c1 - Arable and horticulture
  Total area approx: 29.230 ha.
- c1b - Temporary grass and clover ley
  Total area approx: 28.025 ha.
- c1c - Cereal crop
  Total area approx: 73.021 ha.
- c1d - Non-cereal crop
  Total area approx: 34.657 ha.
- g3 - Neutral grassland
  Total area approx: 4.844 ha.
- g3c - Other neutral grassland
  Total area approx: 13.330 ha.
- h2 - Hedgerow
  Total length approx: 11544.8 m.
- h3h - Mixed scrub
  Total area approx: 1.176 ha.
- r1a - Eutrophic standing water
  Total area approx: 0.083 ha.
- r2 - River and stream
  Total length approx: 3607.8 m.
- r2 - River and stream
  Total area approx: 1.073 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.247 ha.
- u1e - Built linear feature
  Total length approx: 104.4 m.
- w1f - Lowland mixed deciduous woodland
  Total area approx: 1.230 ha.
- w1g6 - Line of trees
  Total length approx: 704.3 m.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 75 150 m

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P01	06/06/24	MW	Initial issue.

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drawing no. **5535-LLB-XX-XX-DR-Ec-0149**

drawing title. **Biodiversity Net Gain Assessment - Figure 1**
Habitat Prior to Development Plan
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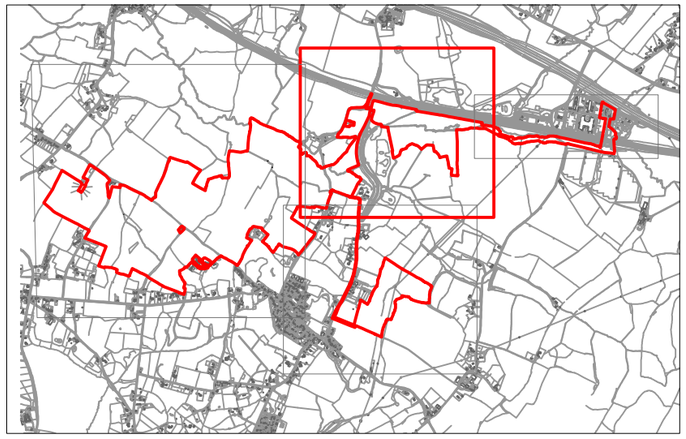

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5535-LLB-XX-XX-DR-Ec-0152-S4-P01_Figure 1

5535-LLB-XX-XX-DR-Ec-0151-S4-P01_Figure 1

LEGEND:

- c1b - Temporary grass and clover ley. Total area approx: 28.025 ha.
- c1c - Cereal crop. Total area approx: 73.021 ha.
- c1d - Non-cereal crop. Total area approx: 34.657 ha.
- g3c - Other neutral grassland. Total area approx: 13.330 ha.
- h2 - Hedgerow. Total length approx: 11544.8 m.
- h3h - Mixed scrub. Total area approx: 1.176 ha.
- r2 - River and stream. Total length approx: 3607.8 m.
- r2 - River and stream. Total area approx: 1.073 ha.
- u1b - Developed land. sealed surface. Total area approx: 2.247 ha.
- w1d - Wet woodland. Total area approx: 0.790 ha.
- w1g6 - Line of trees. Total length approx: 704.3 m.
- Order limits. Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 50 100 m

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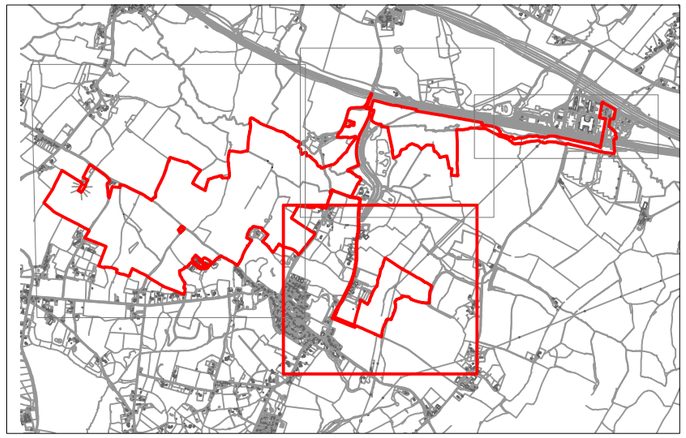

5535-LLB-XX-XX-DR-Ec-0150-S4-P01_Figure 1

5535-LLB-XX-XX-DR-Ec-0149-S4-P01_Figure 1

LEGEND:

- c1 - Arable and horticulture
  Total area approx: 29.230 ha.
- c1c - Cereal crop
  Total area approx: 73.021 ha.
- g3 - Neutral grassland
  Total area approx: 4.844 ha.
- h2 - Hedgerow
  Total length approx: 11544.8 m.
- r2 - River and stream
  Total length approx: 3607.8 m.
- r2 - River and stream
  Total area approx: 1.073 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.247 ha.
- w1g6 - Line of trees
  Total length approx: 704.3 m.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 50 100 m

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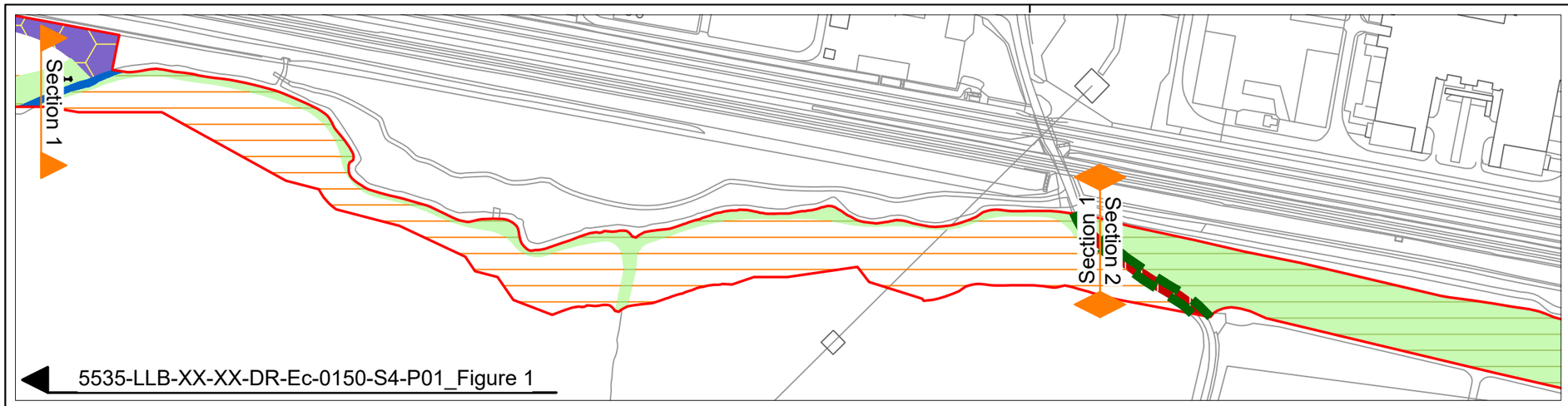

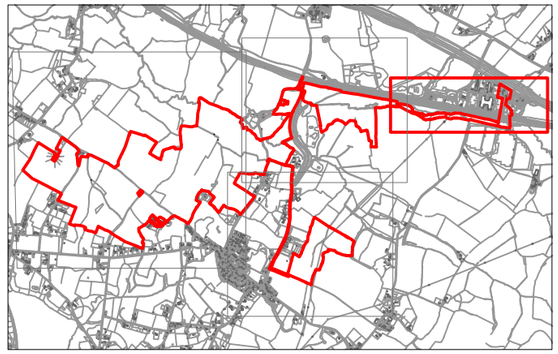

LEGEND:

- c1c - Cereal crop
  Total area approx: 73.021 ha.
- g3c - Other neutral grassland
  Total area approx: 13.330 ha.
- h3h - Mixed scrub
  Total area approx: 1.176 ha.
- r2 - River and stream
  Total length approx: 3607.8 m.
- r2 - River and stream
  Total area approx: 1.073 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.247 ha.
- u1b6 - Other developed land
  Total area approx: 1.818 ha.
- u1f - Sparsely vegetated urban land
  Total area approx: 0.092 ha.
- w1d - Wet woodland
  Total area approx: 0.790 ha.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

Note:

Habitat boundaries depicted may not accurately reflect the current conditions on the ground due to potential outdated aerial photography and the variable nature of seasonal vegetation.

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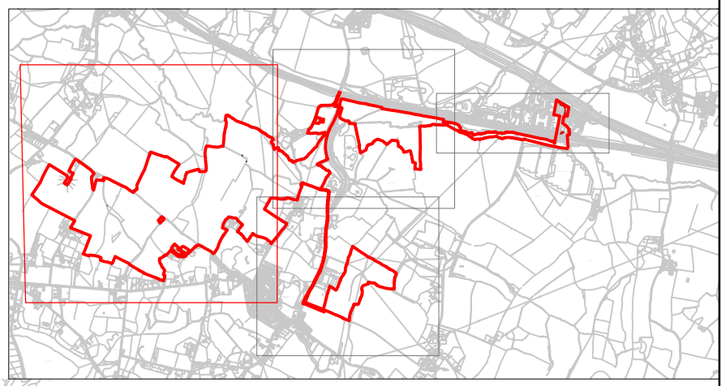

5535-LLB-XX-XX-DR-Ec-0155-S4-P01_Figure 2

LEGEND:

Impacted Habitats:

- g3 - Neutral grassland
  Total area approx: 0.349 ha.
- g3c - Other neutral grassland
  Total area approx: 1.126 ha.
- w1g6 - Line of trees
  Total length approx: 2.0 m.
  Total area approx: 0.001 ha.
- h2 - Hedgerow
  Total length approx: 98.8 m.
  Total area approx: 0.025 ha.
- h3h - Mixed scrub
  Total area approx: 0.278 ha.
- c1 - Arable and horticulture
  Total area approx: 29.218 ha.
- c1b - Temporary grass and clover ley
  Total area approx: 28.025 ha.
- c1c - Cereal crop
  Total area approx: 71.252 ha.
- c1d - Non-cereal crop
  Total area approx: 34.667 ha.
- u1b - Developed land. sealed surface
  Total area approx: 0.250 ha.
- u1e - Built linear feature
  Total length approx: 104.4 m.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 0.001 ha.
- Order limits
  Total area approx: 191.538 ha.

LEGEND:

Enhanced Habitats:

- g3 - Neutral grassland
  Total area approx: 4.464 ha.
- g3c - Other neutral grassland
  Total area approx: 10.335 ha.

Retained Habitats:

- g3 - Neutral grassland
  Total area approx: 0.035 ha.
- g3c - Other neutral grassland
  Total area approx: 1.903 ha.
- w1d - Wet woodland
  Total area approx: 0.468 ha.
- w1f - Lowland mixed deciduous woodland
  Total area approx: 1.311 ha.
- w1g6 - Line of trees
  Total length approx: 447.2 m.
  Total area approx: 0.112 ha.
- h2 - Hedgerow
  Total length approx: 11202.3 m.
  Total area approx: 2.799 ha.
- u1b - Developed land. sealed surface
  Total area approx: 1.996 ha.
- r1a - Eutrophic standing water
  Total area approx: 0.083 ha.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 1.074 ha.
- Order limits
  Total area approx: 191.538 ha.

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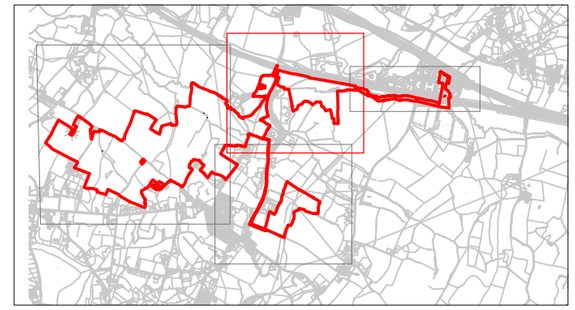

5535-LLB-XX-XX-DR-Ec-0153-S4-P01_Figure 2

5535-LLB-XX-XX-DR-Ec-0156-S4-P01_Figure 2

5535-LLB-XX-XX-DR-Ec-0155-S4-P01_Figure 2

LEGEND:

Impacted Habitats:

- g3c - Other neutral grassland
  Total area approx: 1.126 ha.
- w1g6 - Line of trees
  Total length approx: 2.0 m.
  Total area approx: 0.001 ha.
- h2 - Hedgerow
  Total length approx: 98.8 m.
  Total area approx: 0.025 ha.
- h3h - Mixed scrub
  Total area approx: 0.278 ha.
- c1b - Temporary grass and clover ley
  Total area approx: 28.025 ha.
- c1c - Cereal crop
  Total area approx: 71.252 ha.
- c1d - Non-cereal crop
  Total area approx: 34.667 ha.

Retained Habitats:

- g3c - Other neutral grassland
  Total area approx: 1.903 ha.
- w1d - Wet woodland
  Total area approx: 0.468 ha.
- w1g6 - Line of trees
  Total length approx: 447.2 m.
  Total area approx: 0.112 ha.
- h2 - Hedgerow
  Total length approx: 11202.3 m.
  Total area approx: 2.799 ha.
- h3h - Mixed scrub
  Total area approx: 0.901 ha.
- c1c - Cereal crop
  Total area approx: 1.962 ha.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 1.074 ha.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 50 100 m

1:5000

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P01	06/06/24	MW	Initial issue.

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Land North And West Of Aldington
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drawing no. *5535-LLB-XX-XX-DR-Ec-0154*

drawing title.
Biodiversity Net Gain Assessment - Figure 2
Habitat Impacts Plan
Sheet 2 of 4

rev. *P01*
suit. *S4*
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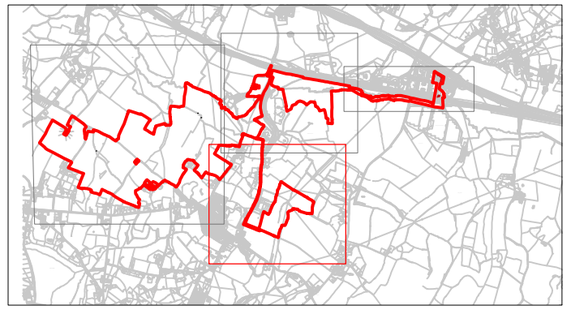
5535-LLB-XX-XX-DR-Ec-0154-S4-P01_Figure 2

5535-LLB-XX-XX-DR-Ec-0153-S4-P01_Figure 2



Aldington

LEGEND:

Impacted Habitats:

c1 - Arable and horticulture
Total area approx: 29.218 ha.

c1c - Cereal crop
Total area approx: 71.252 ha.

Enhanced Habitats:

g3 - Neutral grassland
Total area approx: 4.464 ha.

Retained Habitats:

w1g6 - Line of trees
Total length approx: 447.2 m.
Total area approx: 0.112 ha.

h2 - Hedgerow
Total length approx: 11202.3 m.
Total area approx: 2.799 ha.

u1b - Developed land. sealed surface
Total area approx: 1.996 ha.

Order limits
Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 50 100 m
1:5000

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P01	06/06/24	MW	Initial issue.

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drawing title.
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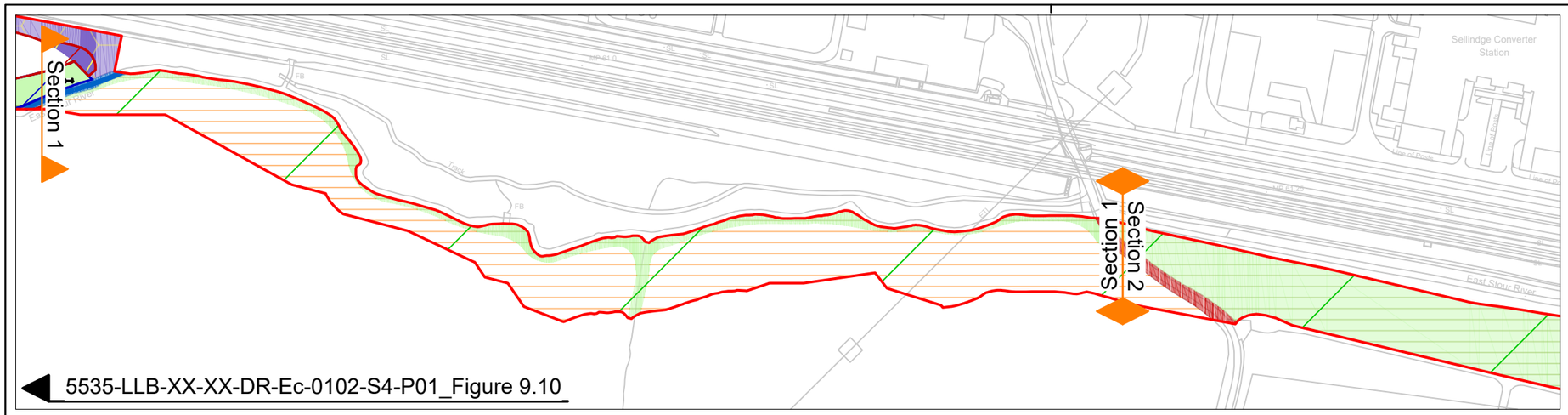

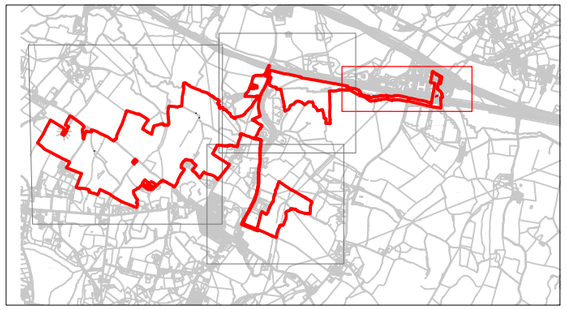

LEGEND:

Retained Habitats:

- g3c - Other neutral grassland. Total area approx: 1.903 ha.
- w1d - Wet woodland. Total area approx: 0.468 ha.
- h3h - Mixed scrub. Total area approx: 0.901 ha.
- c1c - Cereal crop. Total area approx: 1.962 ha.
- u1b - Developed land. sealed surface. Total area approx: 1.996 ha.
- u1b6 - Other developed land. Total area approx: 1.818 ha.
- u1f - Sparsely vegetated urban land. Total area approx: 0.092 ha.
- r2 - River and stream. Total length approx: 3264.6 m.
- r2 - River and stream. Total area approx: 1.074 ha.
- Order limits. Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

Note:

Habitat boundaries depicted may not accurately reflect the current conditions on the ground due to potential outdated aerial photography and the variable nature of seasonal vegetation.

0 30 60 m

1:3000

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P01	06/06/24	MW	Initial issue.

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Land North And West Of Aldington
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drawing no. **5535-LLB-XX-XX-DR-Ec-0156**

drawing title. **Biodiversity Net Gain Assessment - Figure 2**
Habitat Impacts Plan
Sheet 4 of 4

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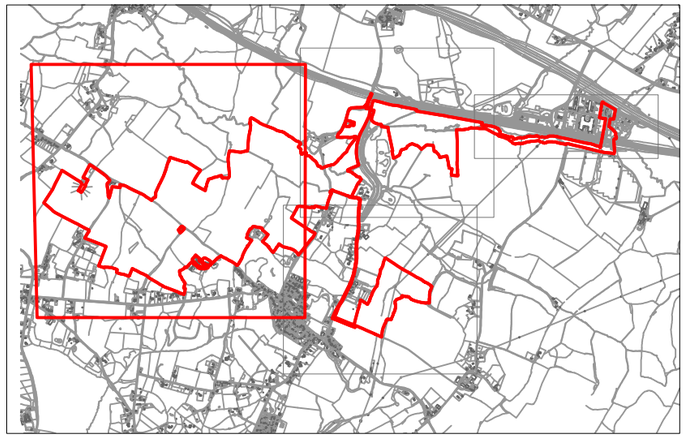

5535-LLB-XX-XX-DR-Ec-0158-S4-P01_Figure 3

5535-LLB-XX-XX-DR-Ec-0159-S4-P01_Figure 3

LEGEND:

- g3 - Neutral grassland
  Total area approx: 1.200 ha.
- g3c - Other neutral grassland
  Total area approx: 3.952 ha.
- g3c - Other neutral grassland (Within perimeter fence)
  Total area approx: 37.917 ha.
- g3c.161 - Other neutral grassland (Tussocky)
  Total area approx: 14.631 ha.
- g3c.161 & 119 - Other neutral grassland (seasonal wet, sward mosaic)
  Total area approx: 9.245 ha.
- g3c6 - Lolium-cynosurus neutral grassland
  Total area approx: 100.166 ha.
- w1d - Wet woodland
  Total area approx: 1.041 ha.
- w1f - Lowland mixed deciduous woodland
  Total area approx: 4.298 ha.
- w1g6 - Line of trees
  Total length approx: 447.2 m.
- h2 - Hedgerow
  Total length approx: 11202.3 m.
- h3h - Mixed scrub
  Total area approx: 1.667 ha.
- h2a - Hedgerow (priority habitat)
  Total length approx: 5226.9 m.
- c1a8 - Arable field margin
  Total area approx: 2.210 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.883 ha.
- u1b6 - Other developed land
  Total area approx: 4.778 ha.
- u1d.1210 - Suburban mosaic of developed / natural surface
  Total area approx: 2.738 ha.
- r1a.19 - Eutrophic standing water
  Total area approx: 0.171 ha.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 1.135 ha.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 75 150 m

1:7500

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P01	06/06/24	MW	Initial issue.

rev.	rev. date	auth.	rev. note

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drawing no. *5535-LLB-XX-XX-DR-Ec-0157*

drawing title. *Biodiversity Net Gain Assessment - Figure 3*
Post-Development Habitat Plan
Sheet 1 of 4

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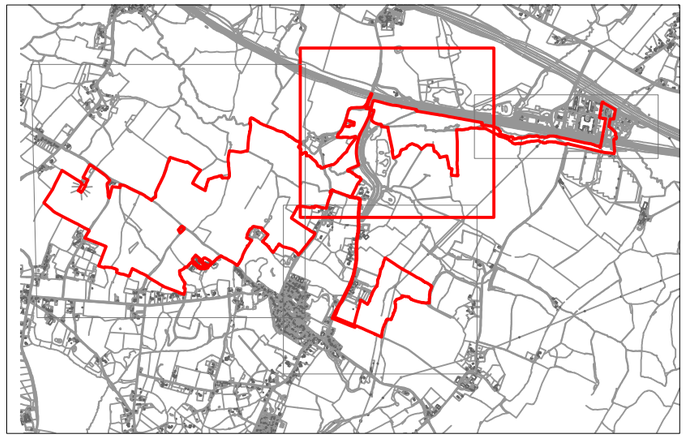

5535-LLB-XX-XX-DR-Ec-0157-S4-P01_Figure 3

5535-LLB-XX-XX-DR-Ec-0160-S4-P01_Figure 3

5535-LLB-XX-XX-DR-Ec-0159-S4-P01_Figure 3

LEGEND:

- g3c - Other neutral grassland
  Total area approx: 3.952 ha.
- g3c - Other neutral grassland (Within perimeter fence)
  Total area approx: 37.917 ha.
- g3c.161 - Other neutral grassland (Tussocky)
  Total area approx: 14.631 ha.
- g3c.161 & 119 - Other neutral grassland (seasonal wet, sward mosaic)
  Total area approx: 9.245 ha.
- g3c6 - Lolium-cynosurus neutral grassland
  Total area approx: 100.166 ha.
- w1d - Wet woodland
  Total area approx: 1.041 ha.
- w1f - Lowland mixed deciduous woodland
  Total area approx: 4.298 ha.
- w1g6 - Line of trees
  Total length approx: 447.2 m.
- h2 - Hedgerow
  Total length approx: 11202.3 m.
- h3h - Mixed scrub
  Total area approx: 1.667 ha.
- h2a - Hedgerow (priority habitat)
  Total length approx: 5226.9 m.
- c1a8 - Arable field margin
  Total area approx: 2.210 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.883 ha.
- u1b6 - Other developed land
  Total area approx: 4.778 ha.
- u1d.1210 - Suburban mosaic of developed / natural surface
  Total area approx: 2.738 ha.
- r1a.19 - Eutrophic standing water
  Total area approx: 0.171 ha.
- r1a.1190 - Eutrophic standing water
  Total area approx: 0.443 ha.
- r1.162 - Standing open water and canal
  Total area approx: 0.254 ha.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 1.135 ha.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

N

0 50 100 m

1:5000

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Land North And West Of Aldington
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drawing title: **Biodiversity Net Gain Assessment - Figure 3**
Post-Development Habitat Plan
Sheet 2 of 4

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APFP **5(2)(I)(ii)** | sheet. **A3**
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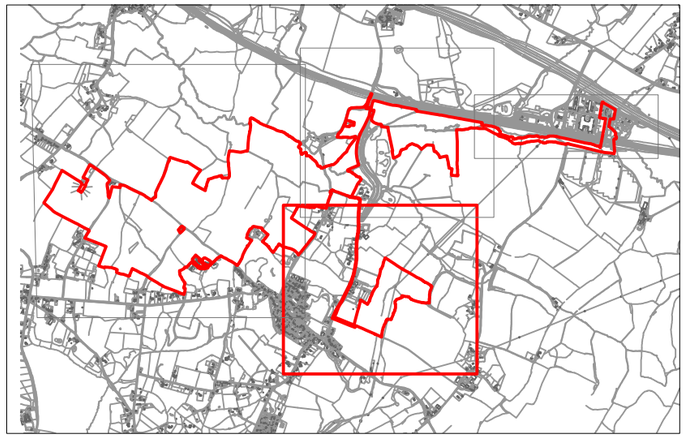

5535-LLB-XX-XX-DR-Ec-0158-S4-P01_Figure 3

5535-LLB-XX-XX-DR-Ec-0157-S4-P01_Figure 3

LEGEND:

- g21 - Traditional Orchard
  Total area approx: 0.656 ha.
- g3 - Neutral grassland
  Total area approx: 1.200 ha.
- g3c - Other neutral grassland
  Total area approx: 3.952 ha.
- g3c - Other neutral grassland (Within perimeter fence)
  Total area approx: 37.917 ha.
- g3c.161 - Other neutral grassland (Tussocky)
  Total area approx: 14.631 ha.
- g3c.161 & 119 - Other neutral grassland (seasonal wet, sward mosaic)
  Total area approx: 9.245 ha.
- g3c6 - Lolium-cynosurus neutral grassland
  Total area approx: 100.166 ha.
- w1f - Lowland mixed deciduous woodland
  Total area approx: 4.298 ha.
- w1g6 - Line of trees
  Total length approx: 447.2 m.
- h2 - Hedgerow
  Total length approx: 11202.3 m.
- h3h - Mixed scrub
  Total area approx: 1.667 ha.
- h2a - Hedgerow (priority habitat)
  Total length approx: 5226.9 m.
- c1a8 - Arable field margin
  Total area approx: 2.210 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.883 ha.
- u1b6 - Other developed land
  Total area approx: 4.778 ha.
- u1d.1210 - Suburban mosaic of developed / natural surface
  Total area approx: 2.738 ha.
- r1a.19 - Eutrophic standing water
  Total area approx: 0.171 ha.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 1.135 ha.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

0 50 100 m
1:5000

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Post-Development Habitat Plan
Sheet 3 of 4

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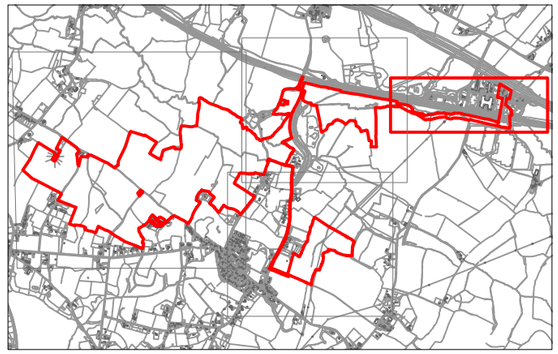

LEGEND:

- g3c - Other neutral grassland
  Total area approx: 3.952 ha.
- g3c - Other neutral grassland (Within perimeter fence)
  Total area approx: 37.917 ha.
- g3c.161 - Other neutral grassland (Tussocky)
  Total area approx: 14.631 ha.
- g3c.161 & 119 - Other neutral grassland (seasonal wet, sward mosaic)
  Total area approx: 9.245 ha.
- w1d - Wet woodland
  Total area approx: 1.041 ha.
- w1f - Lowland mixed deciduous woodland
  Total area approx: 4.298 ha.
- w1g6 - Line of trees
  Total length approx: 447.2 m.
- h3h - Mixed scrub
  Total area approx: 1.667 ha.
- c1c - Cereal crop
  Total area approx: 1.962 ha.
- u1b - Developed land. sealed surface
  Total area approx: 2.883 ha.
- u1b6 - Other developed land
  Total area approx: 4.778 ha.
- r2 - River and stream
  Total length approx: 3264.6 m.
- r2 - River and stream
  Total area approx: 1.135 ha.
- Order limits
  Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

Note:

Habitat boundaries depicted may not accurately reflect the current conditions on the ground due to potential outdated aerial photography and the variable nature of seasonal vegetation.

0 30 60 m
1:3000

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Appendix 2: Habitat Condition Assessment Results

Condition Sheet: DITCH Habitat Type

Habitat Type

Watercourses - Ditches

Habitat Description

See the Biodiversity Metric 4.0 User Guide.

WB1 - water filled ditch with less than 50cm water and generally lacking aquatic vegetation - encroaching bramble, ruderal and tussock grass on bankside. Connects to and includes pond WB1.
WB12 / WB13 - both similar dry / almost dry hedgerow ditches at hedgerow base, Generally no emergent / marginal vegetation and encroaching bramble, ruderal and tussock grass on bankside

Site name and location	5535 - Stonestreet Green Solar 24.10.23 Mark Wingrove BSc(Hons) CEnv MCIEEM	**On-site or off-site**										
Limitations (if applicable)	Survey outside key botanical season but all ditchescontaining water or damp vegetation characterirstic of conditon seen during summer season.	**Survey reference (if relating to a wider survey)**										
		Habitat parcel reference	WB1	WB12	WB13	R11 (south						
		Grid reference										

	Condition Assessment Criteria	**Criterion passed (Yes or No)**										**Notes (such as justification)**
A	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution.	Y	N	N	Y							
B	A range of emergent, submerged and floating-leaved plants are present. As a guide >10 species of emergent, floating or submerged plants present in a 20 m ditch length.	N	N	N	N							
C	There is less than 10% cover of filamentous algae and or duckweed *Lemna* spp. (these are signs of eutrophication).	Y	Y	Y	Y							
D	A fringe of aquatic marginal vegetation is present along more than 75% of the ditch.	N	N	N	N							
E	Physical damage is evident along less than 5% of the ditch, with examples of damage including: excessive poaching, damage from machinery use or storage, or any other damaging management activities.	Y	Y	Y	Y							
F	Sufficient water levels are maintained - as a guide a minimum summer depth of approximately 50 cm in minor ditches and 1 m in main drains.	N	N	N	Y							
G	Less than 10% of the ditch is heavily shaded.	Y	N	Y	N							
H	There is an absence of non-native plant and animal species[1].	Y	Y	Y	Y							
	Number of criteria passed	5	3	4	5							

Condition Assessment Result (out of 8 criteria)	**Condition Assessment Score**	**Score Achieved ×/□**									
Passes 8 criteria	Good (3)										
Passes 6 or 7 criteria	Moderate (2)										
Passes 5 or fewer criteria	Poor (1)	X	X	X	X						

Suggested enhancement interventions to improve condition score

All = management of encroaching bramble and ruderal on bankside, if realistically possible. Proposed habitat enhancements and removal of arable land will increase riparian zone buffer and minimise nutrient / soil run off.
WB12/WB13 would benefit from some dredging of base of ditch and management of bankside vegetation if feasible.
R11 located within wooded / shaded corridor and so shading / limited aquatic veg interventions are likely limited

Footnotes

Condition Sheet: GRASSLAND Habitat Type (medium, high and very high distinctiveness)

UK Habitat Classification (UKHab) Habitat Type(s)

Grassland - Lowland calcareous grassland
Grassland - Lowland dry acid grassland
Grassland - Lowland meadows
Grassland - Other lowland acid grassland
Grassland - Other neutral grassland
Grassland - Tall herb communities (H6430) [Note Tall herb habitat that does not meet the Annex 1 definition should be recorded as 'Other neutral grassland'] [Not to be confused with the Tall forbs secondary code – see UKHab guidance for details.]
Grassland - Upland acid grassland
Grassland - Upland calcareous grassland
Grassland - Upland hay meadows
Sparsely vegetated land - Calaminarian grassland

Habitat Description

A. South West Margins (Fields 1, 10) - network of arable field fringes in south west of site. Good mix of grasses but overall limited forb diversity with many species being indicators of sub-optimal condition / common arable 'weeds' where present. Bare areas where mostg frequently used as a agricultural machine access, though extent of damage varies across area. Likely subject to nutrient run off from adjacent arable like most fringes on site. In some areas a notable damaged / bareground character adjacent to arable mainly comprised of perinneal rye grass, pineapple mayweed, ribwort plantain and bareground as most abundant species. This however grounds into a more diverse undisturbed hedgerow / woodland edge margin consisting of bent grasses, , cocksfoot, couch grass, false oat, yorkshire fog, hogweed, creeping buttercup as most abundant species. Timothy grass, fescue grasses, crested dogs tail, hogweed, creeping thistle, curled dog are among the more frequently occuring rarer species and provide and

ukhab – UK Habitat Classification

Site name and location	5535 - Stonestreet Green Solar 23.06.23 and 26.07.23 Mark Wingrove BSc(Hons) Cenv MCIEEM	**On-site or off-site**	On site								
		Survey reference (if relating to a wider survey)									
Limitations (if applicable)	N/A - assessed during June and July	**Habitat parcel reference**									
		A - Arable fringes south	B - Arable fields in south east of site	C - Arable fields in north	D - Central field grass	E. Grass paddock	F. Field 8.				
Condition Assessment Criteria		**Grid reference**									
		Criterion passed (Yes or No)									**Notes (such as justification)**
A	The grassland is a good representation of the habitat type it has been identified as, based on its UKHab description - the appearance and composition of the vegetation closely matches the characteristics of the specific grassland habitat type. Indicator species listed by UKHab for the specific grassland habitat type are consistently present. **Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.**	Y - while some areas are damaged and track marked, continuous areas of diverse grassland sward are present in many areas	N - limited areas of continous grass sward as arable extends almost up to hedgerow row with some areas more aking to ruderal arable margin	Y - majority of extent has good grassland sward with relatively little tracking damage	Y- encroachment by arable plants but comprises large areas of continous sward	Y - continous variable sward as one of best examples on site	N - due to grazing pressure and short sward but higher quality than modified grassland				
B	Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20% is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	Y - variation in sub areas across extent and also due to	Y - variation in sub areas across extent and also due to vehicle tracking	Y - variation in sub areas across extent and also due to vehicle	Y- encroachment by arable plants but comprises large areas of	Y	N				
C	Cover of bare ground is between 1% and 5%, including localised areas, for example, rabbit warrens[1].	N - bare ground above 5% due to vehicle tracking	N - bare ground above 5% due to vehicle tracking	N - bare ground above 5% due to vehicle tracking	Y - limited tracking damage	Y	N - generally uniform short sward				
D	Cover of bracken *Pteridium aquilinum* is less than 20% and cover of scrub (including bramble *Rubus fruticosus* agg.) is less than 5%.	Y	Y	Y	Y	Y	Y				
E	Combined cover of species indicative of sub-optimal condition[2] and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species[3] (as listed on Schedule 9 of WCA[4]) are present, this criterion is automatically failed.	N - due to physical damage from agricultural tracking	N - due to physical damage from agricultural tracking	N - damage less than some other areas but still above	Y - avoids vehicle damage present in other margins	Y - appears well managed	N				

Additional Criterion - must be assessed for all non-acid grassland types												
F	There are 10 or more vascular plant species per m^2 present, including forbs that are characteristic of the habitat type (species referenced in Footnote 2 and 4 cannot contribute towards this count). **Note - this criterion is essential for achieving Good condition for non-acid grassland types only.**	N - grass species diversity is reasonable but generally lacking	N - forbs are generally species indicative of sub-optimal condition	N - though some localised areas include a diverse grass mix with	N	Y - decent sward diversity	N					
Essential criterion for Good condition achieved (for non-acid grassland) (Yes or No)		Yes	No	Yes	Yes	Yes	No					
Number of criteria passed		3	2	3	5	6	1					

Condition Assessment Result	Condition Assessment Score	Score Achieved ×/□									
Acid Grassland types (Result out of 5 criteria)											
Passes 5 criteria	Good (3)										
Passes 3 or 4 criteria	Moderate (2)										
Passes 2 or fewer criteria	Poor (1)										
Non-acid grassland types (Result out of 6 criteria)											
Passes 5 or 6 criteria, including essential criterion A and additional criterion F.	Good (3)					Good					
Passes 3 - 5 criteria, including essential criterion A.	Moderate (2)	Mod		Mod	Mod						
Passes 2 or fewer criteria; OR Passes 3 or 4 criteria excluding criterion A and F.	Poor (1)		Poor				Poor				

Suggested enhancement interventions to improve condition score

A, B, C, D Overall limit argicultural tracking and fertilizer run off for all parcels. In many places sward height is reasonably tall and possibly preventing establisment of forbs - a limited grazing or cutting regime will help. Generally relaxing of arable management will benefit all areas.

Parcel B South east areas may require more significant intervention to achieve good condition, as arable field character (soil, crop types and weeds) extent alomost to hedgerow margin in many places

Notes

Footnote 1 – For example, this could include small, scattered areas of bare ground allowing for plant colonisation, or localised patches not exceeding 5% cover.

Footnote 2 - Species indicative of sub-optimal condition for this habitat type include: creeping thistle *Cirsium arvense* , spear thistle *Cirsium vulgare* , curled dock *Rumex crispus* , broad-leaved dock *Rumex obtusifolius* , common nettle *Urtica dioica* , creeping buttercup *Ranunculus repens* , greater plantain *Plantago major* , white clover *Trifolium repens* and cow parsley *Anthriscus sylvestris* . There may be additional relevant species local to the region and or site.

Footnote 3 – Assess this for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, by applying professional judgement.

Footnote 4 – Wildlife and Countryside Act 1981 (as amended).

Condition Sheet: POND Habitat Type

Habitat Type(s)

Lakes - Ponds (priority habitat)
Lakes - Ponds (non-priority habitat)
Lakes - Temporary lakes ponds and pools (H3170) [Use this condition sheet for Temporary ponds and pools, use Lake condition sheet for Temporary lakes]
Lakes - Ornamental lake or pond [Use this condition sheet for Ornamental ponds, use Lake condition sheet for Ornamental lakes]

Habitat Description

WB2 / WB3 - Ponds within woodland and heavily shaded. Appear relatively shallow, without much aquatic vegetation, likely leaf litter in base
WB11 - small depression along hedgerow dry ditch on slope, filled with aquatic grasses (primarily glyceria sp.). Dry at time of survey after wet autumn, so likely often dry
WB25 - small pond at end of ditch, connecting two drainage ditches in corner of field. Typha encroached but with areas of open water
Note WB1 has been included within ditch assessment

ukhab – UK Habitat Classification

For ponds (non-priority) – see the Biodiversity Metric 4.0 Technical Annex 2.

Site name and location	5535 - Stonestreet Green Solar 24.10.23 Mark Wingrove BSc(Hons) CEnv MCIEEM	**On-site or off-site**	On site
		Survey reference (if relating to a wider survey)	
Limitations (if applicable)	Survey outside key botanical season but all ponds containing water or damp vegetation characterirstic of conditon seen during summer season.		

Habitat parcel reference										
WB2	WB3	WB11	WB15							
Grid reference										

Condition Assessment Criteria		**Criterion passed (Yes or No)**										**Notes (such as justification)**
Core Criteria - applicable to all ponds (woodland[1] and non-woodland):												
A	The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.	N	N	N (dry)	N							
B	There is semi-natural habitat (moderate distinctiveness or above) completely surrounding the pond, for at least 10 m from the pond edge for its entire perimeter.	N	N	N	N							
C	Less than 10% of the water surface is covered with duckweed *Lemna* spp. or filamentous algae.	Y	Y	Y	Y							
D	The pond is not artificially connected to other waterbodies, e.g. agricultural ditches or artificial pipework.	N	N	N	N							
E	Pond water levels can fluctuate naturally throughout the year. No obvious artificial dams[2], pumps or pipework.	Y	Y	Y	Y							
F	There is an absence of listed non-native plant and animal species[3].	Y	Y	Y	Y							
G	The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.	Y	Y	Y	Y							
Additional Criteria - must be assessed for all non-woodland ponds:												
H	Emergent, submerged or floating plants (excluding duckweed)[4] cover at least 50% of the pond area which is less than 3 m deep.			Y	Y							
I	The pond surface is no more than 50% shaded by adjacent trees and scrub.			N	Y							
	Number of criteria passed	4	4	5	6							

Condition Assessment Result	**Condition Assessment Score**	**Score Achieved ×/□**									
Results for woodland ponds which require assessment of 7 core criteria											
Passes 7 criteria	Good (3)										
Passes 5 or 6 criteria	Moderate (2)										
Passes 4 or fewer criteria	Poor (1)	X	X								
Results for non-woodland ponds which require assessment of 9 criteria											
Passes 9 criteria	Good (3)										
Passes 6 to 8 criteria	Moderate (2)				Y						
Passes 5 or fewer criteria	Poor (1)			X							

Suggested enhancement interventions to improve condition score

WB2 and WB3 - dredging and deepening will prevent pond infilling in the long term. WB3 in particular held little water at time of survey. Removal of adjacent arable habitats will create general benefits in more extensive local habitats and potentially less nutrient run off. WB11 - general enlargement will assist water rentention, vegetation management to maintain open water WB25 - in reasonable condition, typha managment would assist in maintaining open water areas
Footnote 1 - A woodland pond will be surrounded on all sides by woodland habitat. **Footnote 2** – This excludes natural dams such as those created by Eurasian beaver *Castor fiber*. **Footnote 3** - Any species included on the Water Framework Directive (WFD) UKTAG GB High Impact Species List should be absent: WFD UKTAG (2021) *Classification of aquatic alien species according to their level of impact* [online]. Available from:

Condition Sheet: URBAN Habitat Type

Habitat Types

Sparsely vegetated land - Ruderal/Ephemeral
Sparsely vegetated land - Tall forbs
Urban - Allotments
Urban - Biodiverse green roof
Urban - Bioswale
Urban - Cemeteries and churchyards
Urban - Facade-bound green wall
Urban - Ground based green wall
Urban - Intensive green roof
Urban - Open mosaic habitats on previously developed land
Urban - Rain garden
Urban - Sustainable drainage system (SuDS)
Urban - Vacant or derelict land
Urban - Bare ground

Habitat Description

Urban - Sparsely vegetated land - Ruderal / ephemeral - Mosses and ephemeral vegetation with some tall forbs present. Coverage by grass species is very sparse. Species include annual meadow grass (Poa annua), teasel (Dipsacus fullonum), willow-herb (Epilobium sp.), common hogweed (Heracleum sphondylium), common nettle (Urtica dioica), Lords-and-ladies (Arum maculatum), ground ivy (Glechoma hederacea) and cow parsley (Anthriscus sylvestris).

See the Statutory Biodiversity Metric User Guide for green roofs and UK Habitat Classification (UKHab) for other habitats:			UKHab – UK Habitat Classification
On-site or off-site, site name and location	On-site	**Survey date and Surveyor name**	10th December 2023 James Madden BSc MSc ACIEEM
Limitations (if applicable)		**Survey reference (if relating to a wider survey)**	
Grid reference		**Habitat parcel reference**	2, 3 and 4

	Condition Assessment Criteria	**Criterion passed (Yes or No)**	**Notes (such as justification)**
Core Criteria - must be assessed for **all urban habitat types**:			
A	Vegetation structure is varied, providing opportunities for vertebrates and invertebrates to live, eat and breed. A single structural habitat component or vegetation type does not account for more than 80% of the total habitat area.	No	
B	The habitat parcel contains different plant species that are beneficial for wildlife, for example flowering species providing nectar sources for a range of invertebrates at different times of year.	No	
C	Invasive non-native plant species (listed on Schedule 9 of WCA[1]) and others which are to the detriment of native wildlife (using professional judgement)[2] cover less than 5% of the total vegetated area[3]. **Note - to achieve Good condition, this criterion must be satisfied by a complete absence of invasive non-native species (rather than <5% cover).**	No	
Additional Criterion - must be assessed for **Open mosaic habitat on previously developed land** only:			
D	The parcel shows spatial variation and forms a mosaic of bare substrate PLUS: - At least four early successional communities (a) to (i); Communities: (a) annuals; (b) mosses/liverworts; (c) lichens; (d) ruderals; (e) inundation species; (f) open grassland; (g) flower-rich grassland; (h) heathland, (i) pools.		
Additional Criteria - must be assessed for **Bioswale and SuDS** habitat types only:			
E1	Plant species are mostly native. If non-native species are present, they should not be detrimental to the habitat or native wildlife[4].		
E2	The vegetation is comprised of plant species suited to wetland or riparian situations.		
Additional Criterion - must be assessed for **Intensive green roofs** only:			

F	The roof has a minimum of 50% native and non-native wildflowers. 70% of the roof area is soil and vegetation (including water features).		
Additional Criterion - must be assessed for **Biodiverse green roofs** only:			
G	The roof has a varied depth of 80 – 150 mm; at least 50% is at 150 mm and is planted and seeded with wildflowers and sedums or is pre-prepared with sedums and wildflowers. **Note – to achieve Good condition some additional habitat, such as sand piles, stones, logs etc. are present.**		
Essential criteria relevant for habitat type achieved (Yes or No)			No
Number of criteria passed			0

Condition Assessment Result	**Condition Assessment Score**	**Score Achieved ×/✓**
Results for habitats requiring assessment of **3 core criteria** only **(all listed urban habitats except Open mosaic habitat on previously developed land, Bioswale, SuDS and Green roofs)**:		
• Passes all 3 core criteria; AND • Meets the requirements for Good condition within criterion C.	Good (3)	
• Passes 2 of 3 core criteria; OR • Passes 3 of 3 core criteria but does not meet the requirements for Good condition within criterion C.	Moderate (2)	
• Passes 0 or 1 of 3 core criteria.	Poor (1)	x
Results for **Green roofs** and **Open mosaic habitat on previously developed land** (requiring assessment of **4 criteria** only - core criteria plus additional criterion specified for habitat type):		
• Passes all 3 core criteria; AND • Meets the requirements for Good condition within criterion C; AND • Passes additional criterion relevant to specific habitat type (D, F or G).	Good (3)	
• Passes 2 or 3 of 4 criteria; OR • Passes 4 of 4 criteria but does not meet the requirements for Good condition within criterion C.	Moderate (2)	
• Passes 0 or 1 of 4 criteria.	Poor (1)	
Results for **Bioswale or SuDS** (requiring assessment of **5 criteria** - core criteria plus additional criteria specified for habitat type):		
• Passes all 3 core criteria; AND • Meets the requirements for Good condition within criterion C; AND • Passes all additional criteria relevant to specific habitat type (Group E)	Good (3)	
• Passes 3 or 4 of 5 criteria; OR • Passes 5 of 5 criteria but does not meet the requirements for Good condition within criterion C.	Moderate (2)	
• Passes 2 or fewer of 5 criteria.	Poor (1)	

Suggested enhancement interventions to improve condition score

Footnotes

Condition Sheet: SCRUB Habitat Type

UK Habitat Classification (UKHab) Habitat Type

Heathland and shrub - Blackthorn scrub
Heathland and shrub - Gorse scrub
Heathland and shrub - Hawthorn scrub
Heathland and shrub - Hazel scrub
Heathland and shrub - Mixed scrub
Heathland and shrub - Dunes with sea buckthorn (H2160)
Heathland and shrub - Willow scrub

Habitat Description

Parcel A (Field 26/27, northern boundary) - Mixed scrub fringe along northern site boundary embankement which includes scrub and small trees. Generally dense and continous and beyind arable field boundary fence. Bramble common but diversity of other tree and scrub species also present

Parcel 5 (Sellindge, 10.01.24)- Mixed scrub. Predominantly alder (Alnus sp.) with bramble (Rubus fruticousus agg.) and Buddleia davidii. Tall forbs present including common nettle, willow-herb and teasel.

For Dunes with sea buckthorn see:	Dunes with sea-buckthorn (Dunes with Hippophae rhamnoides) - Special Areas of Conservation (jncc.gov.uk)
For other scrub types see:	ukhab – UK Habitat Classification

Site name and location	5535 - Stonestreet Green solar 23.06.23 and 26.07.23 Mark Wingrove BSc(Hons) Cenv MCIEEM - Parcel A 10.01.24 Sellindge James Madden BSc(Hons) MSc ACIEEM	**On-site or off-site**	On site
		Survey reference (if relating to a wider survey)	
Limitations (if applicable)	Parcel A Not directly acessible. Sellindge areas surveyed in January	**Habitat parcel reference**	A - Field 26/27; 5 - Sellindge; 6 - Sellindge
		Grid reference	

	Condition Assessment Criteria	Criterion passed (Yes or No)										Notes (such as justification)
A	The scrub is a good representation of the habitat type it has been identified as, based on its UKHab description (where in its natural range). The appearance and composition of the vegetation closely matches the characteristics of the specific scrub type. At least 80% of scrub is native, and there are at least three native woody species[1], with no single species comprising more than 75% of the cover (except hazel *Corylus avellana*, common juniper *Juniperus communis*, sea buckthorn *Hippophae rhamnoides* or box *Buxus sempervirens*, which can be up to 100% cover).	Yes	Yes	Yes								Relatively diverse mix of native species even though bramble frequent
B	Seedlings, saplings, young shrubs and mature (or ancient or veteran[2]) shrubs are all present.	No	No	No								Mostly mature shrubs generally dense and lacking seedlings
C	There is an absence of invasive non-native plant species[3] (as listed on Schedule 9 of WCA[4]) and species indicative of sub-optimal condition[5] make up less than 5% of ground cover.	Yes	No	No								
D	The scrub has a well-developed edge with scattered scrub and tall grassland and or forbs present between the scrub and adjacent habitat.	No	No	No								Limited grading as arable margins stop almost as scrub edge behing fence
E	There are clearings, glades or rides present within the scrub, providing sheltered edges.	No	No	No								Relatively dense shrub comprises majority of rail embankment
	Number of criteria passed	2	1	1								

Condition Assessment Result (out of 5 criteria)	Condition Assessment Score	Score Achieved ×/□									
Passes 5 criteria	Good (3)										
Passes 3 or 4 criteria	Moderate (2)										
Passes 2 or fewer criteria	Poor (1)	x	x	x							

Suggested enhancement interventions to improve condition score

Landscape buffer improvements within site will provide improvement to habitat edge. Habitat works on railway embankment likely outside scope of Project

Condition Sheet: WOODLAND Habitat Type

UK Habitat Classification (UKHab) Habitat Type(s)

Woodland and forest - Lowland beech and yew woodland
Woodland and forest - Lowland mixed deciduous woodland
Woodland and forest - Native pine woodlands
Woodland and forest - Other coniferous woodland
Woodland and forest - Other Scot's pine woodland
Woodland and forest - Other woodland; broadleaved
Woodland and forest - Other woodland; mixed
Woodland and forest - Upland birchwoods
Woodland and forest - Upland mixed ashwoods
Woodland and forest - Upland oakwood
Woodland and forest - Wet woodland

Habitat Description

Parcel A - Field 26 Northern site boundary consisting of railway fringe and small connected areas along access tracks. Lacks the most mature or veteran trees with relatively dense shrub understorey and limited ground flora visible for Site side but a good mi of native tree and shrub species including hazel, alder, hawthorn and field maple with scattered larger ash and sycamore trees.

ukhab – UK Habitat Classification

This condition sheet is based on the England Woodland Biodiversity Group (EWBG) Woodland Condition Survey Method, available here:

Woodland Wildlife Toolkit (sylva.org.uk)

IMPORTANT: This biodiversity metric woodland condition assessment must be used to assess woodland being input into the biodiversity metric. The outputs of this condition assessment are not equivalent to, nor are they comparable with the scores from the EWBG condition assessment, because the EWBG assessment has been adapted for the biodiversity metric, including the removal of EWBG Indicator 7 (Proportion of favourable land cover around woodland) and Indicator 14 (Size of woodland), and minor changes to other indicators.

Site name and location	5535 - Stonestreet Green Solar 23.06.23 and	**On-site or off-site**	On- site	**Habitat parcel reference**	A - Field	Parcel B -	Parcel C -	Parcel D -	Parcel E -					
Limitations (if applicable)	No access to parcel C - understorey viewed at distance. Survey in June/July may miss early	**Survey reference (if relating to a wider survey)**		**Grid reference**										

Condition Assessment Criteria

	Indicator	**Good (3 points)**	**Moderate (2 points)**	**Poor (1 point)**	**Score per indicator**										**Notes (such as justification)**
A	**Age distribution of trees**	Three age-classes[1] present.	Two age-classes[1] present.	One age-class[1] present.	2	3	2	2	3						
B	**Wild, domestic and feral herbivore damage**	No significant browsing damage evident in woodland[2].	Evidence of significant browsing pressure is present in 40% or less of whole woodland[2].	Evidence of significant browsing pressure is present in 40% or more of whole woodland[2].	3	3	3	3	3						No browsing pressure (i.e. deer) observed in site
C	**Invasive plant species**	No invasive species[3] present in woodland.	Rhododendron *Rhododendron ponticum* or cherry laurel *Prunus laurocerasus* not present, other invasive species[3] <10% cover.	Rhododendron or cherry laurel present, or other invasive species[3] >10% cover.	3	3	3	3	3						No invasive species observed across site
D	**Number of native tree species**	Five or more native tree or shrub species[4] found across woodland parcel.	Three to four native tree or shrub species[4] found across woodland parcel.	Two or less native tree or shrub species[4] across woodland parcel.	3	3	2	3	2						
E	**Cover of native tree and shrub species**	>80% of canopy trees and >80% of understory shrubs are native[5].	50 - 80% of canopy trees and 50 - 80% of understory shrubs are native[5].	<50% of canopy trees and <50% of understory shrubs are native[5].	3	3	3	3	3						Woodlands generally entirely native
F	**Open space within woodland**	10 - 20% of woodland has areas of temporary open space[6]. Unless woodland is <10ha, in which case 0 - 20% temporary open space is permitted[7].	21 - 40% of woodland has areas of temporary open space[6].	<10% or >40% of woodland has areas of temporary open space[6]. But if woodland <10ha has <10% temporary open space, please see Good category[7].	1	1	3	2	2						Lack of open space generally in woodland A and B.
G	**Woodland regeneration**	All three classes present in woodland[8]; trees 4 - 7 cm Diameter at Breast Height (DBH), saplings and seedlings or advanced coppice regrowth.	One or two classes only present in woodland[8].	No classes or coppice regrowth present in woodland[8].	2	3	2	2	2						

H	**Tree health**	Tree mortality less than 10%, no pests or diseases and no crown dieback[9].	11% to 25% tree mortality and or crown dieback or low-risk pest or disease present[9].	Greater than 25% tree mortality and or any high-risk pest or disease present[9].	3	3	3	3	3						
I	**Vegetation and ground flora**	Recognisable NVC plant community[10] at ground layer present, strongly characterised by ancient woodland flora specialists.	Recognisable woodland NVC plant community[10] at ground layer present.	No recognisable woodland NVC plant community[10] at ground layer present.	2	2	2	1	1						Bramble encroachment in some areas along with other dense shrub areas reduces areas of ground flora.
J	**Woodland vertical structure**	Three or more storeys across all survey plots, or a complex woodland[11].	Two storeys across all survey plots[11].	One or less storey across all survey plots[11].	2	3	2	1	2						
K	**Veteran trees**	Two or more veteran trees[12] per hectare.	One veteran tree[12] per hectare.	No veteran trees[12] present in woodland.	1	2	1	1	1						Limited veteran trees within on-Site woodlands
L	**Amount of deadwood**	50% of all survey plots within the woodland parcel have deadwood, such as standing deadwood, large dead branches and or stems, branch stubs and stumps, or an abundance of small cavities[13].	Between 25% and 50% of all survey plots within the woodland parcel have deadwood, such as standing deadwood, large dead branches and or stems, stubs and stumps, or an abundance of small cavities[13].	Less than 25% of all survey plots within the woodland parcel have deadwood, such as standing deadwood, large dead branches and or stems, stubs and stumps, or an abundance of small cavities[13].	1	2	1	1	2						
M	**Woodland disturbance**	No nutrient enrichment or damaged ground evident[14].	Less than 1 hectare in total of nutrient enrichment across woodland area and or less than 20% of woodland area has damaged ground[14].	More than 1 hectare of nutrient enrichment and or more than 20% of woodland area has damaged ground[14].	2	2	2	2	1						
				Total Score (out of a possible 39)	28	33	29	27	28						

Condition Assessment Result	**Condition Assessment Score**	**Result Achieved**										
Total score >32 (33 to 39)	Good (3)		Good									
Total score 26 to 32	Moderate (2)	Mod		Mod	Mod	Mod						
Total score <26 (13 to 25)	Poor (1)											

Suggested enhancement interventions to improve condition score

Parcel A - Field 26 northern edge Some opening of shrub layer may be beneficial to allow better establisment of ground flora, otherwise requires time for more mature trees to become established to provide greater age and structure diversity.

Parcel B - management of scrub layer key to further increase woodland understory

GENERAL INFORMATION

ID	Workspace	Project	Team	Recorded: Date	Recorded: Time
92a80607-7923-409c-97d0-6	Lloyd Bore	River Condition Assessment		23/05/2023	14:00
6b4844a0-ced7-4360-b388-8	Lloyd Bore	River Condition Assessment		23/05/2023	13:30
e8780b08-f90a-44e9-ac17-b	Lloyd Bore	River Condition Assessment		23/05/2023	13:00
fbb69521-350e-471d-919d-0	Lloyd Bore	River Condition Assessment		23/05/2023	12:30
aba712f2-95b7-451e-86bd-b	Lloyd Bore	River Condition Assessment		23/05/2023	12:00

GENERAL INFORMATION

Surveyor: ID	Surveyor: Screen Name	Status	River	Reach	Subreach
f9895298-05dc-41fe-b393-6	Philip Ames	Draft	Great Stour	River East Stour	East Stour
f9895298-05dc-41fe-b393-6	Philip Ames	Draft	Great Stour	River East Stour	East Stour
f9895298-05dc-41fe-b393-6	Philip Ames	Draft	Great Stour	River East Stour	East Stour
f9895298-05dc-41fe-b393-6	Philip Ames	Draft	Great Stour	River East Stour	East Stour
f9895298-05dc-41fe-b393-6	Philip Ames	Draft	Great Stour	River East Stour	East Stour

GENERAL INFORMATION

Module	Project Name	MoRPh Correlation Code	WFD Waterbody ID	SurveyType	Riverfly Site?
5	5535	Bank Farm		Pre-project	FALSE
4	5535	Bank Farm		Pre-project	FALSE
3	5535	Bank Farm		Pre-project	FALSE
2	5535	Bank Farm		Pre-project	FALSE
1	5535	Bank Farm		Pre-project	FALSE

GENERAL INFORMATION

Riverfly Site ID	Module Length	Midpoint Location: Latitude	Midpoint Location: Longitude	Midpoint Location: Easting	Midpoint Location: Northing
	20	51.10610709	0.940375465	605937	138202
	20	51.10431749	0.944781507	606254	138015
	20	51.10514616	0.9485231	606512	138118
	20	51.10579511	0.954278138	606912	138206
	20	51.10538845	0.958610418	607217	138173

GENERAL INFORMATION

Midpoint Location: NGR	Survey Bank	Bed Visible	Adverse Conditions?
TR 05937 38201	Both banks	TRUE	FALSE
TR 06253 38014	Both banks	TRUE	FALSE
TR 06512 38117	Both banks	TRUE	FALSE
TR 06911 38205	Right bank	TRUE	FALSE
TR 07216 38172	Both banks	TRUE	FALSE

GENERAL INFORMATION

MoRPh River Width	Left Bank Height	Right Bank Height	Bankfull Width	Water Width	Water Depth
3	1.5	1.5	4	3	0.8
3	1.5	2.5	5	4.5	1.2
3	1	1.5	5	4.5	1.2
5	0.5	0.3	5	4	1
5	0.5	0.5	5	5	1.5

CALCULATIONS

ID	Workspace	Project	Team	Recorded: Date	Recorded: Time	Surveyor: ID	Surveyor: Screen Name
92a80607-7	Lloyd Bore	River Condition Assessment		23/05/2023	14:00	f9895298-05dc-41fe	Philip Ames
6b4844a0-(	Lloyd Bore	River Condition Assessment		23/05/2023	13:30	f9895298-05dc-41fe	Philip Ames
e8780b08-1	Lloyd Bore	River Condition Assessment		23/05/2023	13:00	f9895298-05dc-41fe	Philip Ames
fbb69521-3	Lloyd Bore	River Condition Assessment		23/05/2023	12:30	f9895298-05dc-41fe	Philip Ames
aba712f2-9	Lloyd Bore	River Condition Assessment		23/05/2023	12:00	f9895298-05dc-41fe	Philip Ames

CALCULATIONS

Module	Status	River	Reach	Subreach	Module	INDEX 1: Number of flow types	INDEX 2: Highest energy flow type
5	Draft	Great Stour	River East Stour	East Stour	5	1	Rippled
4	Draft	Great Stour	River East Stour	East Stour	4	1	Rippled
3	Draft	Great Stour	River East Stour	East Stour	3	1	Smooth
2	Draft	Great Stour	River East Stour	East Stour	2	1	Smooth
1	Draft	Great Stour	River East Stour	East Stour	1	1	Smooth

CALCULATIONS

Module	INDEX 3: Number of bed material types	INDEX 4: Coarsest present/extensive bed material type	INDEX 5: Average alluvial bed material size (phi units)	INDEX 6: Average alluvial bed material size class	INDEX 7: Extent of superficial bed siltation	INDEX 8: Channel physical habitat complexity	INDEX 9: Number of aquatic vegetation morphotypes
5	1	Gravel-Pebble	-3.5	Gravel-Pebble	0	0.833333333	3
4	3	Cobble	-0.166666667	Sand	0	1.666666667	0
3	2	Sand	3.377906977	Sand	0	1.25	2
2	2	Clay	10	Clay	0	1.666666667	4
1	2	Clay	10	Clay	0	1.25	3

CALCULATIONS

Module	INDEX 10: Riparian physical habitat complexity	INDEX 11: Riparian vegetation structural complexity	INDEX 12: Human pressure imposed by bank top land cover	INDEX 13: Channel reinforcement	INDEX 14: Non-native invasive plant extent
5	1.666666667	2	0	0	0
4	1.833333333	2.5	6	0	0
3	2.5	4.5	6	0	0
2	2.083333333	3	0	0	0
1	2.916666667	3	0	0	0

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Module	Workspace	Project	Team	Recorded: Date	Recorded: Time	Surveyor: ID	Surveyor: Screen Name
5	Lloyd Bore	River Condition Assessment		23/05/2023	14:00	f9895298-05dc-41fe	Philip Ames
4	Lloyd Bore	River Condition Assessment		23/05/2023	13:30	f9895298-05dc-41fe	Philip Ames
3	Lloyd Bore	River Condition Assessment		23/05/2023	13:00	f9895298-05dc-41fe	Philip Ames
2	Lloyd Bore	River Condition Assessment		23/05/2023	12:30	f9895298-05dc-41fe	Philip Ames
1	Lloyd Bore	River Condition Assessment		23/05/2023	12:00	f9895298-05dc-41fe	Philip Ames

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Module	Status	River	Reach	Subreach	Module	Artificial Ground Cover: Dominant Artificial Ground Cover: Abundance: Left Bank	Artificial Ground Cover: Dominant Artificial Ground Cover: Abundance: Right Bank
5	Draft	Great Stour	River East Stour	East Stour	5	Absent	Absent
4	Draft	Great Stour	River East Stour	East Stour	4	Extensive	Extensive
3	Draft	Great Stour	River East Stour	East Stour	3	Extensive	Extensive
2	Draft	Great Stour	River East Stour	East Stour	2	Absent	Absent
1	Draft	Great Stour	River East Stour	East Stour	1	Absent	Absent

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Module	Artificial Ground Cover: Dominant Artificial Ground Cover: Code: Left Bank	Artificial Ground Cover: Dominant Artificial Ground Cover: Code: Right Bank	Artificial Ground Cover: Subdominant Artificial Ground Cover: Abundance: Left Bank	Artificial Ground Cover: Subdominant Artificial Ground Cover: Abundance: Right Bank	Artificial Ground Cover: Subdominant Artificial Ground Cover: Code: Left Bank	Artificial Ground Cover: Subdominant Artificial Ground Cover: Code: Right Bank	Terrestrial Vegetation: Unvegetated: Abundance: Left Bank
5			Absent	Absent			Absent
4	Arable agriculture / a	Arable agriculture / allo	Absent	Absent			Trace
3	Arable agriculture / a	Arable agriculture / allo	Absent	Absent			Absent
2			Absent	Absent			Absent
1			Absent	Absent			Trace

BANK TOP

Module	Terrestrial Vegetation: Unvegetated: Abundance: Right Bank	Terrestrial Vegetation: Mosses / lichens: Abundance: Left Bank	Terrestrial Vegetation: Mosses / lichens: Abundance: Right Bank	Terrestrial Vegetation: Short Herbs / Grasses: Abundance: Left Bank	Terrestrial Vegetation: Short Herbs / Grasses: Abundance: Right Bank	Terrestrial Vegetation: Tall Herbs / Grasses: Abundance: Left Bank	Terrestrial Vegetation: Tall Herbs / Grasses: Abundance: Right Bank
5	Absent	Absent	Absent	Trace	Absent	Extensive	Extensive
4	Trace	Absent	Absent	Trace	Trace	Extensive	Extensive
3	Absent	Absent	Absent	Absent	Absent	Extensive	Extensive
2	Trace	Absent	Absent	Present	Present	Extensive	Present
1	Trace	Absent	Absent	Present	Present	Extensive	Extensive

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Module	Terrestrial Vegetation: Scrub / Shrubs: Abundance: Left Bank	Terrestrial Vegetation: Scrub / Shrubs: Abundance: Right Bank	Terrestrial Vegetation: Saplings / Trees: Abundance: Left Bank	Terrestrial Vegetation: Saplings / Trees: Abundance: Right Bank	Terrestrial Vegetation: Leaning Trees: Abundance: Left Bank	Terrestrial Vegetation: Leaning Trees: Abundance: Right Bank	Terrestrial Vegetation: Fallen Trees: Abundance: Left Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	Present	Absent	Present	Trace	Absent	Absent	Absent
2	Absent	Absent	Absent	Absent	Absent	Absent	Absent
1	Trace	Absent	Absent	Trace	Absent	Absent	Absent

BANK TOP

Module	Terrestrial Vegetation: Fallen Trees: Abundance: Right Bank	Terrestrial Vegetation: J-Shaped Trees: Abundance: Left Bank	Terrestrial Vegetation: J-Shaped Trees: Abundance: Right Bank	Terrestrial Vegetation: Trailing Tree / Shrub Branches: Abundance: Left Bank	Terrestrial Vegetation: Trailing Tree / Shrub Branches: Abundance: Right Bank	Terrestrial Vegetation: Large Wood: Abundance: Left Bank	Terrestrial Vegetation: Large Wood: Abundance: Right Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	Absent	Absent	Absent	Absent	Trace	Absent	Absent

2	Absent	Absent	Absent	Absent	Absent	Absent	Absent
1	Absent	Absent	Absent	Absent	Absent	Absent	Absent
BANK TOP							

Module	Terrestrial Vegetation: Predominant Tree Type: Code: Left Bank	Terrestrial Vegetation: Predominant Tree Type: Code: Right Bank	Nuisance Plant Species: Himalayan Balsam: Abundance: Left Bank	Nuisance Plant Species: Himalayan Balsam: Abundance: Right Bank	Nuisance Plant Species: Japanese Knotweed: Abundance: Left Bank	Nuisance Plant Species: Japanese Knotweed: Abundance: Right Bank	
5	Absent	Absent	Absent	Absent	Absent	Absent	
4	Absent	Absent	Absent	Absent	Absent	Absent	
3	Deciduous	Deciduous	Absent	Absent	Absent	Absent	
2	Absent	Absent	Absent	Absent	Absent	Absent	
1	Absent	Deciduous	Absent	Absent	Absent	Absent	
BANK TOP							

Module	Nuisance Plant Species: Giant Hogweed: Abundance: Left Bank	Nuisance Plant Species: Giant Hogweed: Abundance: Right Bank	Nuisance Plant Species: Floating Pennywort: Abundance: Left Bank	Nuisance Plant Species: Floating Pennywort: Abundance: Right Bank	Nuisance Plant Species: Other Species 1: Abundance: Left Bank	Nuisance Plant Species: Other Species 1: Abundance: Right Bank	Nuisance Plant Species: Other Species 1: Code: Left Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	
4	Absent	Absent	Absent	Absent	Absent	Absent	
3	Absent	Absent	Absent	Absent	Absent	Absent	
2	Absent	Absent	Absent	Absent	Absent	Absent	
1	Absent	Absent	Absent	Absent	Absent	Absent	
BANK TOP							

Module	Nuisance Plant Species: Other Species 1: Code: Right Bank	Nuisance Plant Species: Other Species 2: Abundance: Left Bank	Nuisance Plant Species: Other Species 2: Abundance: Right Bank	Nuisance Plant Species: Other Species 2: Code: Left Bank	Nuisance Plant Species: Other Species 2: Code: Right Bank	Water Related Features: Disconnected Pond: Abundance: Left Bank	Water Related Features: Disconnected Pond: Abundance: Right Bank

5	Absent	Absent			Absent	Absent
4	Absent	Absent			Absent	Absent
3	Absent	Absent			Absent	Absent
2	Absent	Absent			Absent	Absent
1	Absent	Absent			Absent	Absent

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Module	Water Related Features: Connected Pond: Abundance: Left Bank	Water Related Features: Connected Pond: Abundance: Right Bank	Water Related Features: Side Channel: Abundance: Left Bank	Water Related Features: Side Channel: Abundance: Right Bank	Water Related Features: Short Non Woody Wetland: Abundance: Left Bank	Water Related Features: Short Non Woody Wetland: Abundance: Right Bank	Water Related Features: Tall Non Woody Wetland: Abundance: Left Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	Absent	Absent	Absent	Absent	Absent	Absent	Absent
2	Absent	Absent	Absent	Absent	Absent	Absent	Trace
1	Absent	Absent	Absent	Absent	Absent	Absent	Present

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Module	Water Related Features: Tall Non Woody Wetland: Abundance: Right Bank	Water Related Features: Wetland Shrubs and Trees: Abundance: Left Bank	Water Related Features: Wetland Shrubs and Trees: Abundance: Right Bank
5	Absent	Absent	Absent
4	Absent	Absent	Absent
3	Absent	Present	Present
2	Trace	Absent	Present
1	Present	Absent	Present

BANK FACE

ID	Workspace	Project	Team	Recorded: Date	Recorded: Time	Surveyor: ID	Surveyor: Screen Name	Status	River
92a80607-1	Lloyd Bore	River Condition	Assessment	23/05/2023	14:00	f9895298-05dc-	Philip Ames	Draft	Great Stour
6b4844a0-0	Lloyd Bore	River Condition	Assessment	23/05/2023	13:30	f9895298-05dc-	Philip Ames	Draft	Great Stour
e8780b08-1	Lloyd Bore	River Condition	Assessment	23/05/2023	13:00	f9895298-05dc-	Philip Ames	Draft	Great Stour
fbb69521-3	Lloyd Bore	River Condition	Assessment	23/05/2023	12:30	f9895298-05dc-	Philip Ames	Draft	Great Stour
aba712f2-9	Lloyd Bore	River Condition	Assessment	23/05/2023	12:00	f9895298-05dc-	Philip Ames	Draft	Great Stour

BANK FACE

Module	Reach	Subreach	Module	Profile: Dominant Bank Profile: Abundance: Left Bank	Profile: Dominant Bank Profile: Abundance: Right Bank	Profile: Dominant Bank Profile: Code: Left Bank	Profile: Dominant Bank Profile: Code: Right Bank	Profile: Subdominant Bank Profile: Abundance: Left Bank	Profile: Subdominant Bank Profile: Abundance: Right Bank
5	River East Stour	East Stour	5	Extensive	Extensive	Steep (> 45 degı	Steep (> 45 (	Absent	Absent
4	River East Stour	East Stour	4	Extensive	Extensive	Vertical	Steep (> 45 (	Absent	Absent
3	River East Stour	East Stour	3	Extensive	Extensive	Gentle (< 45 de	Gentle (< 45	Absent	Absent
2	River East Stour	East Stour	2	Extensive	Extensive	Gentle (< 45 de	Gentle (< 45	Absent	Absent
1	River East Stour	East Stour	1	Extensive	Extensive	Gentle (< 45 de	Gentle (< 45	Absent	Absent

BANK FACE

Module	Profile: Subdominant Bank Profile: Abundance: Left Bank	Profile: Subdominant Bank Profile: Abundance: Right Bank	Profile: Subdominant Bank Profile: Code: Left Bank	Profile: Subdominant Bank Profile: Code: Right Bank	Natural Materials: Dominant Upper Bank Sediment Size: Code: Left Bank	Natural Materials: Dominant Upper Bank Sediment Size: Code: Right Bank	Natural Materials: Dominant Lower Bank Sediment Size: Code: Left Bank	Natural Materials: Dominant Lower Bank Sediment Size: Code: Right Bank	Reinforcement: Vertical Extent: Abundance: Left Bank	Reinforcement: Vertical Extent: Abundance: Right Bank
5	Absent	Absent			Earth (i.e. mixe	Earth (i.e. mixed, mainly sand and finer)			Absent	

4	Absent	Absent	Steep (> 45 degrees)	Earth (i.e. mixe	Earth (i.e. mixed, mainly sand and finer)		Absent
3	Absent	Absent		Earth (i.e. mixe	Earth (i.e. mixec	Clay	Clay	Absent
2	Absent	Absent		Earth (i.e. mixe	Earth (i.e. mixec	Earth (i.e. m	Earth (i.e. mixe	Absent
1	Absent	Absent		Earth (i.e. mixe	Earth (i.e. mixec	Earth (i.e. m	Earth (i.e. mixe	Absent

BANK FACE

Module	Natural Materials: Dominant Lower Bank Sediment Size: Code: Left Bank	Natural Materials: Dominant Lower Bank Sediment Size: Code: Right Bank	Reinforcement: Vertical Extent: Abundance: Left Bank	Profile: Subdominant Bank Profile: Code: Left Bank	Profile: Subdominant Bank Profile: Code: Right Bank	Natural Materials: Dominant Upper Bank Sediment Size: Code: Left Bank	Natural Materials: Dominant Upper Bank Sediment Size: Code: Right Bank
5			Absent			Earth (i.e. mixec	Earth (i.e. mixed, mainly sand and finer)
4			Absent	Steep (> 45 degrees)		Earth (i.e. mixec	Earth (i.e. mixed, mainly sand and finer)
3	Clay	Clay	Absent			Earth (i.e. mixec	Earth (i.e. mixed, mainly sand and finer)
2	Earth (i.e. mixed, main	Earth (i.e. mixed,	Absent			Earth (i.e. mixec	Earth (i.e. mixed, mainly sand and finer)
1	Earth (i.e. mixed, main	Earth (i.e. mixed,	Absent			Earth (i.e. mixec	Earth (i.e. mixed, mainly sand and finer)

BANK FACE

Module	Natural Materials: Dominant Lower Bank Sediment Size: Code: Left Bank	Natural Materials: Dominant Lower Bank Sediment Size: Code: Right Bank	Reinforcement: Vertical Extent: Abundance: Left Bank	Reinforcement: Vertical Extent: Abundance: Right Bank	Reinforcement: Horizontal Extent: Abundance: Left Bank	Reinforcement: Horizontal Extent: Abundance: Right Bank	Natural Physical Features: Unvegetated Side Bar: Abundance: Left Bank	Natural Physical Features: Unvegetated Side Bar: Abundance: Right Bank	Natural Physical Features: Unvegetated Side Bar: Code: Left Bank
5			Absent	Absent	Absent	Absent	Absent	Trace	
4			Absent	Absent	Absent	Absent	Trace	Absent	Clay
3	Clay	Clay	Absent	Absent	Absent	Absent	Absent	Absent	

2	Earth (i.e. mixed, main	Earth (i.e. mixed,	Absent	Absent	Absent	Absent	Absent	Absent	
1	Earth (i.e. mixed, main	Earth (i.e. mixed,	Absent	Absent	Absent	Absent	Absent	Absent	

BANK FACE

Module	Natural Physical Features: Unvegetated Side Bar: Code: Right Bank	Natural Physical Features: Vegetated Side Bar: Abundance: Left Bank	Natural Physical Features: Vegetated Side Bar: Abundance: Right Bank	Natural Physical Features: Vegetated Side Bar: Code: Left Bank	Natural Physical Features: Vegetated Side Bar: Code: Right Bank	Natural Physical Features: Berm: Abundance: Left Bank	Natural Physical Features: Berm: Abundance: Right Bank	Natural Physical Features: Bench: Abundance: Left Bank	Natural Physical Features: Bench: Abundance: Right Bank
5		Absent	Absent			Absent	Absent	Absent	Absent
4		Absent	Absent			Absent	Absent	Absent	Absent
3		Absent	Absent			Absent	Absent	Absent	Absent
2		Absent	Absent			Absent	Absent	Absent	Absent
1		Absent	Absent			Absent	Absent	Absent	Absent

BANK FACE

Module	Natural Physical Features: Vegetated Side Bar: Abundance: Right Bank	Natural Physical Features: Vegetated Side Bar: Code: Left Bank	Natural Physical Features: Vegetated Side Bar: Code: Right Bank	Natural Physical Features: Berm: Abundance: Left Bank	Natural Physical Features: Berm: Abundance: Right Bank	Natural Physical Features: Bench: Abundance: Left Bank	Natural Physical Features: Bench: Abundance: Right Bank	Natural Physical Features: Stable Cliff: Abundance: Left Bank	Natural Physical Features: Stable Cliff: Abundance: Right Bank
5	Absent			Absent	Absent	Absent	Absent	Absent	Absent
4	Absent			Absent	Absent	Absent	Absent	Present	Absent
3	Absent			Absent	Absent	Absent	Absent	Absent	Absent
2	Absent			Absent	Absent	Absent	Absent	Absent	Absent
1	Absent			Absent	Absent	Absent	Absent	Absent	Absent

BANK FACE

Module	Natural Physical Features: Eroding Cliff: Abundance: Left Bank	Natural Physical Features: Eroding Cliff: Abundance: Right Bank	Natural Physical Features: Toe: Abundance: Left Bank	Natural Physical Features: Toe: Abundance: Right Bank	Natural Physical Features: Animal Burrows: Abundance: Left Bank	Natural Physical Features: Animal Burrows: Abundance: Right Bank	Natural Physical Features: Marginal Backwater: Abundance: Left Bank	Natural Physical Features: Marginal Backwater: Abundance: Right Bank	Natural Physical Features: Tributary Confluence: Abundance: Left Bank	
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		0
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		0
3	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		0
2	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		0
1	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent		0

BANK FACE

Module	Natural Physical Features: Tributary Confluence: Abundance: Right Bank	Artificial Features: Pipes / Outfalls: Abundance: Left Bank	Artificial Features: Pipes / Outfalls: Abundance: Right Bank	Artificial Features: Jetty: Abundance: Left Bank	Artificial Features: Jetty: Abundance: Right Bank	Artificial Features: Deflector: Abundance: Left Bank	Artificial Features: Deflector: Abundance: Right Bank	Artificial Features: Other: Abundance: Left Bank	Artificial Features: Other: Abundance: Right Bank
5	0	0	0						
4	0	0	0						
3	0	0	0						
2	0	0	0						
1	0	0	0						

BANK FACE

Module	Artificial Features: Other: Abundance: Left Bank	Artificial Features: Other: Abundance: Right Bank	Artificial Features: Other: Code: Left Bank	Artificial Features: Other: Code: Right Bank	Terrestrial Vegetation: Unvegetated: Abundance: Left Bank	Terrestrial Vegetation: Unvegetated: Abundance: Right Bank	Terrestrial Vegetation: Mosses / lichens: Abundance: Left Bank	Terrestrial Vegetation: Mosses / lichens: Abundance: Right Bank	Terrestrial Vegetation: Short Herbs / Grasses: Abundance: Left Bank
5					Absent	Absent	Absent	Absent	Absent
4					Present	Present	Absent	Present	Absent
3					Absent	Absent	Absent	Absent	Absent
2					Absent	Absent	Absent	Absent	Trace
1					Absent	Absent	Absent	Absent	Absent

BANK FACE

Module	Terrestrial Vegetation: Short Herbs / Grasses: Abundance: Right Bank	Terrestrial Vegetation: Tall Herbs / Grasses: Abundance: Left Bank	Terrestrial Vegetation: Tall Herbs / Grasses: Abundance: Right Bank	Terrestrial Vegetation: Scrub / Shrubs: Abundance: Left Bank	Terrestrial Vegetation: Scrub / Shrubs: Abundance: Right Bank	Terrestrial Vegetation: Saplings / Trees: Abundance: Left Bank	Terrestrial Vegetation: Saplings / Trees: Abundance: Right Bank	Terrestrial Vegetation: Large Wood: Abundance: Left Bank	Terrestrial Vegetation: Large Wood: Abundance: Right Bank
5	Absent	Extensive	Extensive	Trace	Absent	Absent	Absent	Absent	Absent
4	Absent	Extensive	Extensive	Absent	Absent	Trace	Trace	Absent	Absent
3	Absent	Extensive	Extensive	Present	Absent	Present	Present	Absent	Absent
2	Trace	Extensive	Extensive	Absent	Absent	Absent	Absent	Absent	Absent
1	Absent	Extensive	Extensive	Absent	Absent	Absent	Trace	Absent	Absent

BANK FACE

Module	Terrestrial Vegetation: Fallen Trees: Abundance: Left Bank	Terrestrial Vegetation: Fallen Trees: Abundance: Right Bank	Terrestrial Vegetation: Leaning Trees: Abundance: Left Bank	Terrestrial Vegetation: Leaning Trees: Abundance: Right Bank	Terrestrial Vegetation: JShaped Trees: Abundance: Left Bank	Terrestrial Vegetation: JShaped Trees: Abundance: Right Bank	Terrestrial Vegetation: Trailing Tree / Shrub Branches: Abundance: Left Bank	Terrestrial Vegetation: Trailing Tree / Shrub Branches: Abundance: Right Bank	Terrestrial Vegetation: Exposed Tree Roots: Abundance: Left Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	Absent	Absent	Trace	Trace	Trace	Trace	Absent	Trace	Absent
2	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
1	Absent	Absent	Absent	Trace	Absent	Trace	Absent	Absent	Absent

BANK FACE

Module	Terrestrial Vegetation: Exposed Tree Roots: Abundance: Right Bank	Terrestrial Vegetation: Discrete Organic Accumulations: Abundance: Left Bank	Terrestrial Vegetation: Discrete Organic Accumulations: Abundance: Right Bank	Vegetation at Water Margin: Liverworts / Mosses / Lichens: Abundance: Left Bank	Vegetation at Water Margin: Liverworts / Mosses / Lichens: Abundance: Right Bank	Vegetation at Water Margin: Emergent Broad Leaved: Abundance: Left Bank	Vegetation at Water Margin: Emergent Broad Leaved: Abundance: Right Bank	Vegetation at Water Margin: Emergent Reeds / Linear Leaved: Abundance: Left Bank	Vegetation at Water Margin: Emergent Reeds / Linear Leaved: Abundance: Right Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Trace
3	Absent	Trace	Trace	Absent	Absent	Absent	Absent	Extensive	Trace
2	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Present	Present
1	Absent	Absent	Trace	Absent	Absent	Absent	Trace	Present	Present

BANK FACE

Module	Vegetation at Water Margin: Amphibious: Abundance: Left Bank	Vegetation at Water Margin: Amphibious: Abundance: Right Bank	Vegetation at Water Margin: Filamentous Algae: Abundance: Left Bank	Vegetation at Water Margin: Filamentous Algae: Abundance: Right Bank	Nuisance Plant Species: Himalayan Balsam: Abundance: Left Bank	Nuisance Plant Species: Himalayan Balsam: Abundance: Right Bank	Nuisance Plant Species: Japanese Knotweed: Abundance: Left Bank	Nuisance Plant Species: Japanese Knotweed: Abundance: Right Bank	Nuisance Plant Species: Giant Hogweed: Abundance: Left Bank
5	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
4	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
2	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
1	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

BANK FACE

Module	Nuisance Plant Species: Giant Hogweed: Abundance: Right Bank	Nuisance Plant Species: Floating Pennywort: Abundance: Left Bank	Nuisance Plant Species: Floating Pennywort: Abundance: Right Bank	Nuisance Plant Species: Other Species 1: Abundance: Left Bank	Nuisance Plant Species: Other Species 1: Abundance: Right Bank	Nuisance Plant Species: Other Species 1: Code: Left Bank	Nuisance Plant Species: Other Species 1: Code: Right Bank	Nuisance Plant Species: Other Species 2: Abundance: Left Bank	Nuisance Plant Species: Other Species 2: Abundance: Right Bank
5	Absent	Absent	Absent	Absent	Absent			Absent	Absent
4	Absent	Absent	Absent	Absent	Absent			Absent	Absent
3	Absent	Absent	Absent	Absent	Absent			Absent	Absent
2	Absent	Absent	Absent	Absent	Absent			Absent	Absent
1	Absent	Absent	Absent	Absent	Absent			Absent	Absent

BANK FACE

Module	Nuisance Plant Species: Other Species 2: Code: Left Bank	Nuisance Plant Species: Other Species 2: Code: Right Bank
5		
4		
3		
2		
1		

CHANNEL BED

Module	Workspace	Project	Team	Recorded: Date	Recorded: Tim	Surveyor: ID
5	Lloyd Bore	River Condition Assessment		23/05/2023	14:00	f9895298-05dc-41fe-b393
4	Lloyd Bore	River Condition Assessment		23/05/2023	13:30	f9895298-05dc-41fe-b393
3	Lloyd Bore	River Condition Assessment		23/05/2023	13:00	f9895298-05dc-41fe-b393
2	Lloyd Bore	River Condition Assessment		23/05/2023	12:30	f9895298-05dc-41fe-b393
1	Lloyd Bore	River Condition Assessment		23/05/2023	12:00	f9895298-05dc-41fe-b393

CHANNEL BED

ID	Surveyor: Screen Nai	Status	River	Reach	Subreach	Module	
Module	Philip Ames	Draft	Great Stour	River East Stour	East Stour		5
5	Philip Ames	Draft	Great Stour	River East Stour	East Stour		4
4	Philip Ames	Draft	Great Stour	River East Stour	East Stour		3
3	Philip Ames	Draft	Great Stour	River East Stour	East Stour		2
2	Philip Ames	Draft	Great Stour	River East Stour	East Stour		1
1							

Module	Natural Materials: Bedrock: Abundance	Natural Materials: Boulder: Abundance	Natural Materials: Cobble: Abundance	Natural Materials: Gravel-Pebble: Abundance	Natural Materials: Sand: Abundance	Surface Flow Type: Rippled: Abundance
5	Absent	Absent	Absent	Extensive	Absent	Extensive
4	Absent	Absent	Present	Present	Absent	Extensive
3	Absent	Absent	Absent	Absent	Extensive	Absent
2	Absent	Absent	Absent	Absent	Absent	Absent
1	Absent	Absent	Absent	Absent	Absent	Absent

CHANNEL BED

Module	Surface Flow Type: Smooth: Abundance	Surface Flow Type: No Perceptible Flow: Abundance	Surface Flow Type: Dry: Abundance	Natural Physical Features: Exposed Bedrock: Abundance	Natural Physical Features: Exposed Unvegetated Rocks: Abundance	Natural Physical Features: Pool: Abundance

5	Absent	Absent	Absent	Absent	Absent	0
4	Absent	Absent	Absent	Absent	Absent	0
3	Extensive	Absent	Absent	Absent	Absent	0
2	Extensive	Absent	Absent	Absent	Absent	0
1	Extensive	Absent	Absent	Absent	Absent	0

CHANNEL BED

Module	Natural Physical Features: Exposed Vegetated Rocks: Abundance	Natural Physical Features: Unvegetated Mid-Channel Bar: Abundance	Natural Physical Features: Unvegetated Mid-Channel Bar: Code	Natural Physical Features: Vegetated Mid-Channel Bar: Abundance	Natural Physical Features: Vegetated Mid-Channel Bar: Code	Natural Physical Features: Island: Abundance
5	Absent	Absent		Absent		Absent
4	Absent	Absent		Absent		Absent
3	Absent	Absent		Absent		Absent
2	Absent	Absent		Absent		Absent
1	Absent	Absent		Absent		Absent

CHANNEL BED

Module	Natural Physical Features: Cascade: Abundance	Natural Physical Features: Pool: Abundance	Natural Physical Features: Riffle: Abundance	Natural Physical Features: Step: Abundance	Natural Physical Features: Waterfall: Abundance	Artificial Features: Large Trash: Abundance
5	Absent	0	0	0	0	Absent
4	Absent	0	0	0	0	Absent
3	Absent	0	0	0	0	Absent
2	Absent	0	1	0	0	Absent
1	Absent	0	0	0	0	Absent

CHANNEL BED

Module	Artificial Features: Major Weir: Abundance	Artificial Features: Intermediate Weir: Abundance	Artificial Features: MinorWeir: Abundance	Artificial Features: Bridge Piers in River Bed: Abundance	Artificial Features: Bridge Shadow: Abundance
5	0	0	0	0	
4	0	0	0	0	
3	0	0	0	0	
2	0	0	0	0	
1	0	0	0	0	Narrow

CHANNEL BED

Module	Artificial Features: Culvert: Abundance	InChannel Vegetation: Unvegetated (bare river bed): Abundance	InChannel Vegetation: Liverworts / Mosses / Lichens (Terrestrial & Aquatic): Abundance	InChannel Vegetation: Emergent Broad Leaved: Abundance	InChannel Vegetation: Emergent Reeds / Linear Leaved: Abundance	InChannel Vegetation: Floating Leaved: Abundance
5	0	Absent	Absent	Absent	Present	Absent
4	0	Absent	Absent	Absent	Absent	Absent
3	0	Extensive	Absent	Absent	Extensive	Absent
2	0	Present	Absent	Absent	Present	Trace
1	0	Present	Absent	Absent	Absent	Trace

CHANNEL BED

Module	InChannel Vegetation: Free Floating: Abundance	InChannel Vegetation: Amphibious: Abundance	InChannel Vegetation: Submerged Broad Leaved: Abundance	InChannel Vegetation: Submerged Linear Leaved: Abundance	InChannel Vegetation: Submerged Fine Leaved: Abundance	InChannel Vegetation: Filamentous Algae: Abundance
5	Absent	Absent	Absent	Present	Absent	Present
4	Absent	Absent	Absent	Absent	Absent	Absent
3	Absent	Absent	Absent	Trace	Absent	Present

2	Absent	Absent	Present	Present	Absent	Present
1	Absent	Absent	Trace	Present	Absent	Present

CHANNEL BED

Module	InChannel Vegetation: Channel Choked with Aquatic Plants?: Abundance	Interacting Vegetation: Short / Creeping Herbs / Grasses: Abundance	Interacting Vegetation: Tall Herbs / Grasses: Abundance	Interacting Vegetation: Scrub / Shrubs: Abundance	Interacting Vegetation: Saplings / Trees: Abundance	Interacting Vegetation: Vegetation Shading Channel: Abundance
5	FALSE	Absent	Absent	Absent	Absent	Absent
4	FALSE	Absent	Absent	Absent	Absent	Absent
3	FALSE	Absent	Absent	Absent	Absent	Absent
2	FALSE	Absent	Absent	Absent	Absent	Absent
1	FALSE	Absent	Absent	Absent	Absent	Trace

CHANNEL BED

Module	Interacting Vegetation: Submerged Tree Roots: Abundance	Interacting Vegetation: Trees / Shrubs / Saplings Growing from Submerged River Bed: Abundance	Interacting Vegetation: Large Wood: Abundance	Interacting Vegetation: Discrete Organic Material: Abundance	Interacting Vegetation: Large Wood Dam (Crosses Entire Width of Channel): Abundance	Interacting Vegetation: Fallen Tree: Abundance
5	Absent	Absent	Absent	Absent	0	0
4	Absent	Absent	Absent	Absent	0	0
3	Absent	Absent	Absent	Trace	0	0
2	Absent	Absent	Absent	Trace	0	0
1	Trace	Absent	Absent	Trace	0	0

CHANNEL BED

Module	Fallen Tree: Abundar	Nuisance Plant Species: Himalayan Balsam: Abundance	Nuisance Plant Species: Japanese Knotweed: Abundance	Nuisance Plant Species: Giant Hogweed: Abundance	Nuisance Plant Species: Floating Pennywort: Abundance	Nuisance Plant Species: Other Species 1: Abundance
5		Absent	Absent	Absent	Absent	Absent
4		Absent	Absent	Absent	Absent	Absent
3		Absent	Absent	Absent	Absent	Absent
2		Absent	Absent	Absent	Absent	Absent
1		Absent	Absent	Absent	Absent	Absent

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Appendix 3: Detailed Results of Statutory Biodiversity Metric Calculations

Biomatrool Ocean Solar Farm

Detailed Results

Return to results menu

Summary Figures

Net project biodiversity units (Including all on-site & off-site habitat retention / creation)		
	Habitat units	**949.70**
	Hedgerow units	**86.09**
	Watercourse units	**3.86**

Total project biodiversity % change (Including all on-site & off-site habitat creation + retained habitats)		
	Habitat units	**186.88%**
	Hedgerow units	**80.35%**
	Watercourse units	**15.54%**

Combined habitat retention and enhancement	Habitats	Hedgerows	Watercourses
Total on-site and off-site baseline area / length	151.99		
Total on-site and off-site baseline units	507.81	107.15	24.83
Total on-site and off-site baseline area / length retained	11.48	9.35	0.00
Total on-site and off-site baseline units retained	53.35	13.13	3.45
Total on-site and off-site area / length proposed for enhancement	14.79	0.44	3.91
Total on-site and off-site baseline units proposed for enhancement	113.12	18.11	21.88
Total on-site and off-site baseline area / length lost	150.44	0.17	0.00
Total on-site and off-site baseline units lost	340.84	0.16	0.00

Area habitats

On-site change by broad habitat type

Habitat group	Baseline: On-site existing area	Baseline: On-site existing value	Post-development on-site: On-site proposed area	Post-development on-site: On-site proposed value	On-site change: On-site area change	On-site change: On-site unit change
Cropland	164.93	328.87	8.77	13.73	-156.16	-315.13
Grassland	18.17	136.30	171.00	298.93	152.83	162.63
Heathland and shrub	1.18	9.94	1.97	14.19	0.80	4.25
Lakes	0.08	1.13	0.81	8.85	0.73	8.72
Sparsely vegetated land	0.09	0.19	0.00	0.00	-0.09	-0.19
Urban	4.06	0.00	8.13	4.07	4.07	4.07
Wetland	0.00	0.00	0.00	0.00	0.00	0.00
Woodland and forest	0.50	27.88	0.08	29.87	-0.42	1.99
Intertidal sediment	0.00	0.00	0.00	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00	0.00	0.00	0.00
Coastal lagoons	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal hard structures	0.00	0.00	0.00	0.00	0.00	0.00
Watercourse footprint	1.14	0.00	1.14	0.00	0.00	0.00
Individual trees	0.00	0.00	0.00	0.00	0.00	0.00

Off-site change by broad habitat type

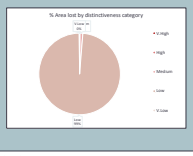
Habitat group	Baseline: Off-site existing area	Baseline: Off-site existing value	Post-development off-site: Off-site proposed area	Post-development off-site: Off-site proposed value	Off-site change: Off-site area change	Off-site change: Off-site unit change
Cropland	0.00	0.00	0.00	0.00	0.00	0.00
Grassland	0.00	0.00	0.00	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00	0.00	0.00	0.00
Lakes	0.00	0.00	0.00	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00	0.00
Urban	0.00	0.00	0.00	0.00	0.00	0.00
Wetland	0.00	0.00	0.00	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00	0.00	0.00	0.00
Coastal lagoons	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal hard structures	0.00	0.00	0.00	0.00	0.00	0.00
Watercourse footprint	0.00	0.00	0.00	0.00	0.00	0.00
Individual trees	0.00	0.00	0.00	0.00	0.00	0.00

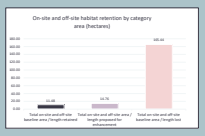
Combined on-site and off-site change by broad habitat type

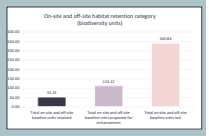
Habitat group	Baseline: Combined existing area	Baseline: Combined existing value	On-site and off-site post-development: Combined proposed area	On-site and off-site post-development: Combined proposed value	Combined change: Combined area change	Combined change: Combined unit change
Cropland	164.93	328.87	8.77	13.73	-156.16	-315.13
Grassland	18.17	136.30	171.00	298.93	152.83	162.63
Heathland and shrub	1.18	9.94	1.97	14.19	0.80	4.25
Lakes	0.08	1.13	0.81	8.85	0.73	8.72
Sparsely vegetated land	0.09	0.19	0.00	0.00	-0.09	-0.19
Urban	4.06	0.00	8.13	4.07	4.07	4.07
Wetland	0.00	0.00	0.00	0.00	0.00	0.00
Woodland and forest	0.50	27.88	0.08	29.87	-0.42	1.99
Intertidal sediment	0.00	0.00	0.00	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00	0.00	0.00	0.00
Coastal lagoons	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal hard structures	0.00	0.00	0.00	0.00	0.00	0.00
Watercourse footprint	1.14	0.00	1.14	0.00	0.00	0.00
Individual trees	0.00	0.00	0.00	0.00	0.00	0.00

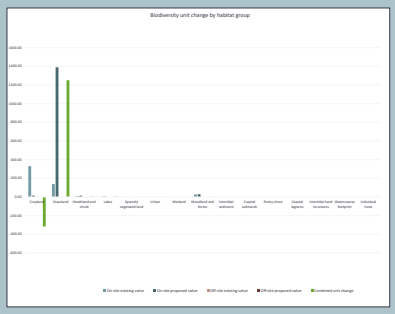
Combined area lost from baseline(s) by distinctiveness band

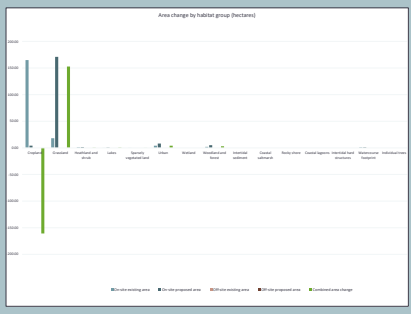
Category	Area lost (hectares)	Area lost (%)
V.High	0	
High	0.000	0
Medium	1.000	1
Low	150.000	99
V.Low	0.00	0











Hedgerows and lines of trees

On-site change by hedgerow type

Hedgerow type	Baseline: On-site existing length	Baseline: On-site existing value	Post-development on-site: On-site proposed length	Post-development on-site: On-site proposed value	On-site change: On-site length change	On-site change: On-site unit change
Species-rich native hedgerow with bank or ditch	1.38	24.38	1.27	24.72	-0.11	0.33
Species-rich native hedgerow with trees	9.79	19.30	0.79	19.14	-9.00	-0.16
Species rich native hedgerow - associated with bank or ditch	1.74	34.78	1.74	32.63	0.00	-2.15
Native hedgerow with trees - associated with bank or ditch	1.24	24.38	1.21	23.62	-0.03	-0.76
Species-rich native hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow - associated with bank or ditch	9.04	2.59	9.04	3.18	0.00	0.60
Native hedgerow with trees	1.86	49.40	1.86	31.09	-0.00	-18.31
Ecologically valuable line of trees	0.00	0.00	0.00	0.00	0.00	0.00
Ecologically valuable line of trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow	3.71	22.03	3.63	22.87	-0.09	0.84
Line of trees	3.58	3.40	3.58	3.60	0.00	0.21
Line of trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Non-native and ornamental hedgerow	0.00	0.00	0.00	0.00	0.00	0.00

Off-site change by hedgerow type

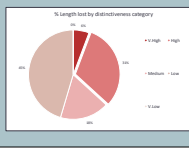
Hedgerow type	Off-site baseline: Off-site existing length	Off-site baseline: Off-site existing value	Post-development off-site: Off-site proposed length	Post-development off-site: Off-site proposed value	Off-site change: Off-site length change	Off-site change: Off-site unit change
Species-rich native hedgerow with trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Species-rich native hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Species rich native hedgerow - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow with trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Species-rich native hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Ecologically valuable line of trees	0.00	0.00	0.00	0.00	0.00	0.00
Ecologically valuable line of trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Line of trees	0.00	0.00	0.00	0.00	0.00	0.00
Line of trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Non-native and ornamental hedgerow	0.00	0.00	0.00	0.00	0.00	0.00

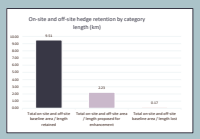
Combined on-site and off-site change by hedgerow type

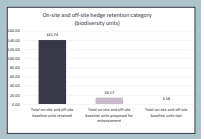
Hedgerow type	Baseline: Combined existing length	Baseline: Combined existing value	Post-development: Combined proposed length	Post-development: Combined proposed value	Change: Combined length change	Change: Combined unit change
Species-rich native hedgerow with bank or ditch	1.38	24.38	1.27	24.72	-0.11	0.33
Species-rich native hedgerow with trees	9.79	19.30	0.79	19.14	-9.00	-0.16
Species rich native hedgerow - associated with bank or ditch	1.74	34.78	1.74	32.63	0.00	-2.15
Native hedgerow with trees - associated with bank or ditch	1.24	24.38	1.21	23.62	-0.03	-0.76
Species-rich native hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow - associated with bank or ditch	9.04	2.59	9.04	3.18	0.00	0.60
Native hedgerow with trees	1.86	49.40	1.86	31.09	-0.00	-18.31
Ecologically valuable line of trees	0.00	0.00	0.00	0.00	0.00	0.00
Ecologically valuable line of trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native hedgerow	3.71	22.03	3.63	22.87	-0.09	0.84
Line of trees	3.58	3.40	3.58	3.60	0.00	0.21
Line of trees - associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Non-native and ornamental hedgerow	0.00	0.00	0.00	0.00	0.00	0.00

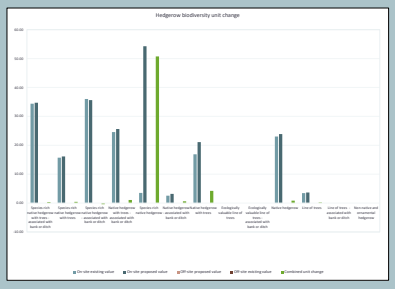
Combined length lost from baseline(s) by distinctiveness band

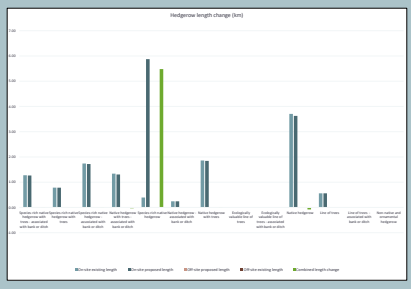
Category	Length lost (km)	Length lost (%)
V.High	0.01	6
High	0.064	38
Medium	0.001	1
Low	0.099	65
V.Low	0	











Watercourses

On-site change by watercourse type

Watercourse type	Baseline: On-site existing length	Baseline: On-site existing value	Post-development on-site: On-site proposed length	Post-development on-site: On-site proposed value	On-site Change: On-site length change	On-site Change: On-site unit change
Ponds	0.0	0.0	0.0	0.0	0.0	0.0
Other rivers and streams	14.4	14.3	2.4	16.1	0.0	1.8
Ditches	0.0	0.0	0.0	0.0	0.0	0.0
Canals	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0

Off-site change by watercourse type

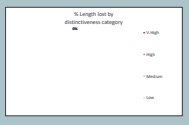
Watercourse type	Baseline: Off-site existing length	Baseline: Off-site existing value	Post-development off-site: Off-site proposed length	Post-development off-site: Off-site proposed value	Off-site Change: Off-site length change	Off-site Change: Off-site unit change
Ponds	0.0	0.0	0.0	0.0	0.0	0.0
Other rivers and streams	0.0	0.0	0.0	0.0	0.0	0.0
Ditches	0.0	0.0	0.0	0.0	0.0	0.0
Canals	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0

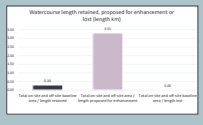
Combined on-site and off-site change by watercourse type

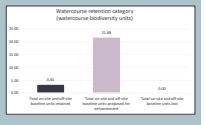
Watercourse type	Baseline: Combined existing length	Baseline: Combined existing value	Post-development on-site: Combined proposed length	Post-development on-site: Combined proposed value	On-site change: Combined length change	On-site change: Combined unit change
Ponds	0.0	0.0	0.0	0.0	0.0	0.0
Other rivers and streams	14.4	14.3	2.4	16.1	0.0	1.8
Ditches	0.0	0.0	0.0	0.0	0.0	0.0
Canals	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0

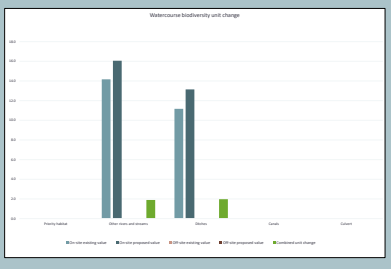
Combined length lost from baseline(s) by distinctiveness band

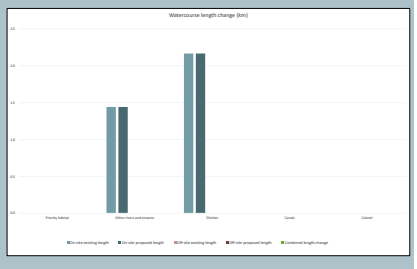
Category	Length lost (km)	Length lost (%)
V.High	0	
High	0	
Medium	0	
Low	0	











The Statutory Biodiversity Metric

Auditing and accounting for biodiversity

Calculation Tool

Open Tool

The Statutory Biodiversity Metric
Start page

Project details			
Planning authority:	Planning Inspectorate / Ashford Borough Council		
Project name:	Stonestreet Green Solar Farm		
Applicant:	EPL 01 Limited		
Application type:	NSIP		
Planning application reference:			
Completed by:	Lloydbore. Principal Ecologist (BSc (Hons), CEnv, MCIEEM)		
Date of metric completion:	21 May 2024		
Reviewer:	Lloydbore. Director (BSc (Hons), MCIEEM)		
Calculation iteration:	P01 (Version 1, excluding internal working drafts)		
Planning authority reviewer:			
Date of planning authority review:			
Target % net gain:	10%		
Irreplaceable habitat present at baseline:	**No ✓**		
Total site area - including irreplaceable habitat area (hectares):	191.68	**Irreplaceable habitat site area (hectares):**	0.00
Total off-site area - including irreplaceable habitat area (hectares):	N/A	**Irreplaceable habitat area off-site (hectares):**	N/A

Main menu

Results

Cell style conventions	
⚠	Attention required
▲	Input error/rules and principles not met
	Use of this cell is not appropriate
	Enter data
	Automatic lookup
	Result

View all

Reset view

On-site baseline map — Insert

On-site baseline map reference number	

On-site post intervention map — Insert

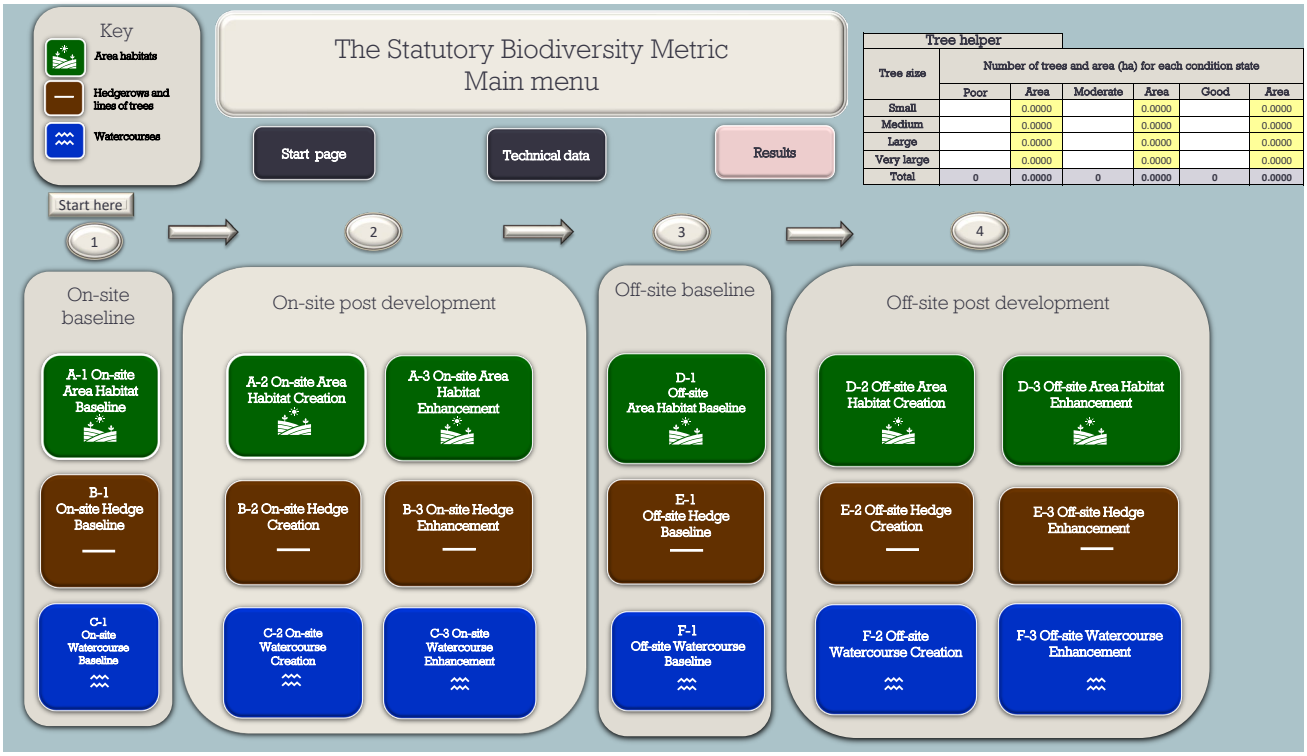
On-site post-intervention map reference number	

Off-site baseline map — Insert

Off-site baseline map reference number	

Off-site post intervention map — Insert

Off-site post-intervention reference number	



Tree helper

Tree size	Number of trees and area (ha) for each condition state					
	Poor	Area	Moderate	Area	Good	Area
Small		0.0000		0.0000		0.0000
Medium		0.0000		0.0000		0.0000
Large		0.0000		0.0000		0.0000
Very large		0.0000		0.0000		0.0000
Total	0	0.0000	0	0.0000	0	0.0000

	Target	Baseline Units	Received Units	Unit Deficit
Area habitats	10.00%	807.41	807.60	0.00
Hedgerows	10.00%	180.09	179.10	0.00
Watercourses	10.00%	20.59	27.57	0.00

Tier	Unit Shortfall by Tier	Unit Shortfall by Tier (SRM Included)	
A1	0.00	0.00	
A2	0.00	0.00	
A3	2.49	4.98	▲
A4	0.00	0.00	
A5	0.00	0.00	
H	0.05	0.10	▲
W	0.00	0.00	

HIGH

Tier	Habitat	Habitat Group	Unit Change	Losses in Tier
A5	Lakes - High ecological value	Lakes	0.00	0.00
	Lakes - Low ecological value	Lakes	0.00	
	Lakes - Mod lakes	Lakes	0.00	
	Lakes - Moderate ecological lakes	Lakes	0.00	
	Lakes - Poor lakes	Lakes	0.00	
A4	Grassland - Floodplain wetland mosaic and CFGM	Grassland	0.00	0.00
	Lakes - Ponds (priority habitat)	Lakes	0.00	
	Lakes - Temporary lakes ponds and pools (SI170)	Lakes	0.00	
	Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	
	Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	
	Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	
	Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	
	Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	
	Woodland and forest - Native pine woodlands	Woodland and forest	0.00	
	Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	
	Woodland and forest - Upland oakwood	Woodland and forest	0.00	
	Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	
	Rocky shore - High energy littoral rock	Rocky shore	0.00	
	Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	
	Rocky shore - Low energy littoral rock	Rocky shore	0.00	
	Rocky shore - Features of littoral rock	Rocky shore	0.00	
	Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	
A3	Woodland and forest - Felled /Replacement for felled woodland	Woodland and forest	0.00	-2.48
	Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	
	Woodland and forest - Upland birchwoods	Woodland and forest	0.00	
	Woodland and forest - Wet woodland	Woodland and forest	-2.48	
	Intertidal sediment - Littoral mud	Intertidal sediment	0.00	
	Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	
	Intertidal sediment - Littoral biogenic reefs - Mussels	Intertidal sediment	0.00	
	Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sediment	0.00	
	Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	
	Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	
	Intertidal sediment - Littoral seagrass	Intertidal sediment	0.00	
A2	Grassland - Lowland calcareous grassland	Grassland	0.00	0.00
	Grassland - Tall herb communities (H6430)	Grassland	0.00	
	Grassland - Upland calcareous grassland	Grassland	0.00	
	Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	
	Heathland and shrub - Dense with sea buckthorn (H2160)	Heathland and shrub	0.00	
	Heathland and shrub - Upland heathland	Heathland and shrub	0.00	
	Urban - Open mosaic habitats on previously developed land	Urban	0.00	
A1	Grassland - Traditional orchards	Grassland	4.44	0.00
	Wetland - Reedbeds	Wetland	0.00	

Rule 1	Higher surplus is used to offset loss of medium distinctiveness of the same broad habitat category.
Rule 2	Remaining higher surplus is used to offset the loss of the most expensive medium credit tier of A4
Rule 3	Remaining higher surplus is used to offset the loss of the second most expensive medium credit tier of A2
Rule 4	Remaining higher surplus is used to offset the loss of the third most expensive medium credit tier A1
Rule 5	Remaining higher surplus is used to offset losses from low distinctiveness habitats

MEDIUM

	Very High + High Distinctiveness Surplus Availability		Medium Distinctiveness Losses		Rule 1	Rule 2	Rule 3	Rule 4		Final Losses in Tier
	Habitat Group	Unit Gain Available in Broad Habitat Group	Habitat Group	Losses Requiring Offset	Remaining Available After Rule 1	Remaining Available After Rule 2	Remaining Available After Rule 3	Remaining Available After Rule 4		
A1	Cropland	0.00	Cropland	0.00	0.00	0.00	0.00	13.61	A1	0.00
	Grassland	4.44	Grassland	0.00	4.44					
	Heathland and shrub	0.00	Heathland and shrub	0.00	0.00					
	Urban	0.00	Urban	0.00	0.00					
	Individual trees	0.00	Individual trees	0.00	0.00					
A2	Woodland and forest	4.44	Woodland and forest	0.00	4.44	0.00	13.61	0.00	A2	0.00
	Intertidal sediment	0.00	Intertidal sediment	0.00	0.00					
A4	Lakes	4.50	Lakes	0.00	4.50	13.61	0.00	0.00	A4	0.00
	Sparsely vegetated land	0.00	Sparsely vegetated land	0.00	0.00					
	Wetland	0.00	Wetland	0.00	0.00					
				Total Remaining Unit Available	13.61	13.61	13.61	13.61		

LOW

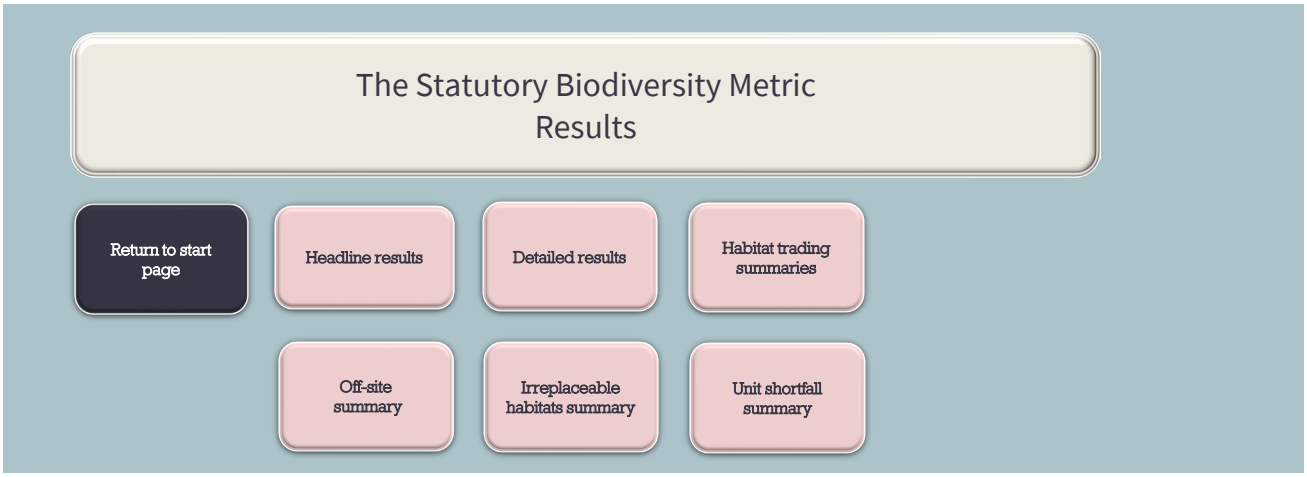
	Net Unit Change for Low Distinctiveness Habitats	Total Unit Change for Low Distinctiveness Habitats Following Offset from Higher Distinctiveness Habitats	Units Remaining Available After Rule 5	Final Losses in Tier
A1	-320.88	935.57	949.18	0.00

	Hedgerows	Losses	Final Losses
H	VHD Losses Not Offset	0.00	-0.05
	HD Losses Not Offset	-0.05	
	MD Losses Not Offset	37.06	
	LD Losses Not Offset	88.13	
	VLD Losses Not Offset	88.13	

	Watercourses	Losses	Final Losses
W	VHD Losses Not Offset	0.00	0.00
	HD Losses Not Offset	0.00	
	MD Losses Not Offset	0.00	
	LD Losses Not Offset	3.56	

Unit Shortfall by Tier/Module	
Tier	Unit Shortfall
A1	0.00
A2	0.00
A3	4.95 ▲
A4	0.00
A5	0.00
H	0.10 ▲
W	0.00

*The spatial risk multiplier has been applied to all unit shortfall values.


The Statutory Biodiversity Metric
Results
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Detailed results
Habitat trading summaries
Off-site summary
Irreplaceable habitats summary
Unit shortfall summary

Stonestreet Green Solar Farm

Headline Results

Scroll down for final results ⚠

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On-site baseline	*Habitat units*	507.21	
	Hedgerow units	160.09	
	Watercourse units	25.33	
On-site post-intervention (Including habitat retention, creation & enhancement)	*Habitat units*	1453.91	
	Hedgerow units	218.17	
	Watercourse units	29.20	
On-site net change (units & percentage)	*Habitat units*	946.70	186.65%
	Hedgerow units	58.08	36.28%
	Watercourse units	3.86	15.24%
Off-site baseline	*Habitat units*	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site post-intervention (Including habitat retention, creation & enhancement)	*Habitat units*	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site net change (units & percentage)	*Habitat units*	0.00	0.00%
	Hedgerow units	0.00	0.00%
	Watercourse units	0.00	0.00%
Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	946.70	
	Hedgerow units	58.08	
	Watercourse units	3.86	
Spatial risk multiplier (SRM) deductions	*Habitat units*	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	

FINAL RESULTS

Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	946.70
	Hedgerow units	58.08
	Watercourse units	3.86
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	186.65%
	Hedgerow units	36.28%
	Watercourse units	15.24%
Trading rules satisfied?	No - Check Trading Summaries ▲	

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	
Habitat units	10.00%	507.21	557.93	0.00	No additional area habitat units required to meet target ✓
Hedgerow units	10.00%	160.09	176.10	0.00	No additional hedgerow units required to meet target ✓
Watercourse units	10.00%	25.33	27.87	0.00	No additional watercourse units required to meet target ✓

Input errors/rule breaks present in metric ▲

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Trading summary hedgerows

Trading summary watercourses

Trading Summary

Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Same habitat required – bespoke compensation option ⚠	Yes ✓
High	Same habitat required =	No ▲
Medium	Same broad habitat or a higher distinctiveness habitat required (≥)	Yes ✓
Low	Same distinctiveness or better habitat required ≥	Yes ✓

Very High Distinctiveness

Habitat group	Group	On-site unit change	Off-site unit change	Project-wide unit change	Unit losses
Grassland - Lowland dry acid grassland	Grassland	0.00	0.00	0.00	
Grassland - Lowland meadows	Grassland	0.00	0.00	0.00	
Grassland - Upland hay meadows	Grassland	0.00	0.00	0.00	
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00	0.00	0.00	
Lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00	0.00	0.00	
Wetland - Blanket bog	Wetland	0.00	0.00	0.00	
Wetland - Depressions on peat substrates (H7150)	Wetland	0.00	0.00	0.00	
Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00	
Wetland - Lowland raised bog	Wetland	0.00	0.00	0.00	
Wetland - Oceanic valley mires (H1) (D2.1)	Wetland	0.00	0.00	0.00	
Wetland - Purple moor grass and rush pastures	Wetland	0.00	0.00	0.00	
Wetland - Transition mires and quaking bogs (H7140)	Wetland	0.00	0.00	0.00	
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00	
Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00

Very High Distinctiveness Summary

Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Remaining losses; Like for like not satisfied	0.00

High Distinctiveness

Habitat group	Group	On-site unit change	Off-site unit change	Project-wide unit change	Losses not yet accounted for
Grassland - Traditional orchards	Grassland	4.44	0.00	4.44	✓
Grassland - Floodplain wetland mosaic and CFGM	Grassland	0.00	0.00	0.00	
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00	
Grassland - Tall herb communities (H6430)	Grassland	0.00	0.00	0.00	
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00	
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Dunes with sea buckthorn (H2160)	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Upland heathland	Heathland and shrub	0.00	0.00	0.00	
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Marl lakes	Lakes	0.00	0.00	0.00	
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Peat lakes	Lakes	0.00	0.00	0.00	
Lakes - Ponds (priority habitat)	Lakes	1.02	0.00	1.02	✓
Lakes - Temporary lakes ponds and pools (H3170)	Lakes	3.88	0.00	3.88	✓
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00	
Urban - Open mosaic habitats on previously developed land	Urban	0.00	0.00	0.00	
Wetland - Reedbeds	Wetland	0.00	0.00	0.00	
Woodland and forest - Felled/Replacement for felled woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	4.47	0.00	4.47	✓
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Wet woodland	Woodland and forest	-2.48	0.00	-2.48	-2.48 ▲
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00	
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00	
Intertidal sediment - Littoral biogenic reefs - Mussels	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral seagrass	Intertidal sediment	0.00	0.00	0.00	
		11.13	0.00	11.13	-2.48

High Distinctiveness Summary

High Distinctiveness Units available to offset lower distinctiveness deficit	13.61 ✓
Remaining losses; Like for like not satisfied	-2.48 ▲

Medium Distinctiveness

Habitat group	Group	On-site unit change	Off-site unit change	Project wide unit change	Cumulative broad habitat change
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins game bird mix	Cropland	9.81	0.00	9.81	9.81 ✓
Cropland - Arable field margins pollen and nectar	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00	
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00	
Grassland - Other neutral grassland	Grassland	1242.37	0.00	1242.37	1242.37 ✓
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00	
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Bramble scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	4.25 ✓
Heathland and shrub - Willow scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Mixed scrub	Heathland and shrub	4.25	0.00	4.25	
Lakes - Ponds (non-priority habitat)	Lakes	0.00	0.00	0.00	
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00	
Urban - Biodiverse green roof	Urban	0.00	0.00	0.00	0.00
Individual trees - Urban tree	Individual trees	0.00	0.00	0.00	
Individual trees - Rural tree	Individual trees	0.00	0.00	0.00	0.00
Woodland and forest - Other Scots pine woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Other woodland; broadleaved	Woodland and forest	0.00	0.00	0.00	0.00
Woodland and forest - Other woodland; mixed	Woodland and forest	0.00	0.00	0.00	
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	0.00
Intertidal hard structures - Artificial hard structures with integrated greening of grey infrastructure (IGGI)	Intertidal hard structures	0.00	0.00	0.00	
		1256.43	0.00	1256.43	

Medium Distinctiveness Summary

Medium Distinctiveness Units available to offset Lower Distinctiveness Deficit	1256.43 ✓
Medium Distinctiveness Broad Habitat losses to be offset by trading up	0.00
Higher Distinctiveness Surplus Units minus Medium Distinctiveness Broad Habitat Deficit	13.61 ✓
Cumulative surplus of units	1270.04 ✓

Low Distinctiveness

Habitat group	Group	On-site unit change	Off-site unit change	Project wide unit change
Cropland - Cereal crops	Cropland	-142.12	0.00	-142.12 ⚠
Cropland - Horticulture	Cropland	-56.46	0.00	-56.46 ⚠
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00
Cropland - Non-cereal crops	Cropland	-69.31	0.00	-69.31 ⚠
Cropland - Temporary grass and clover leys	Cropland	-56.05	0.00	-56.05 ⚠
Cropland - Winter stubble	Cropland	0.00	0.00	0.00
Grassland - Modified grassland	Grassland	4.89	0.00	4.89 ✓
Grassland - Bracken	Grassland	0.00	0.00	0.00
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00
Lakes - Ornamental lake or pond	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Bare ground/developed	Sparsely vegetated land	-0.18	0.00	-0.18 ⚠
Sparsely vegetated land - Tall forbs	Sparsely vegetated land	0.00	0.00	0.00
Urban - Bioswale	Urban	0.00	0.00	0.00
Urban - Bare ground	Urban	0.00	0.00	0.00
Urban - Allotments	Urban	0.00	0.00	0.00
Urban - Facade-bound green wall	Urban	0.00	0.00	0.00
Urban - Ground based green wall	Urban	0.00	0.00	0.00
Urban - Ground level planters	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Intensive green roof	Urban	0.00	0.00	0.00
Urban - Introduced shrub	Urban	0.00	0.00	0.00
Urban - Rain garden	Urban	0.00	0.00	0.00
Urban - Actively worked sand pit quarry or open cast mine	Urban	0.00	0.00	0.00
Urban - Sustainable drainage system	Urban	0.67	0.00	0.67 ✓
Urban - Vacant or derelict land	Urban	0.00	0.00	0.00
Urban - Vegetated garden	Urban	0.00	0.00	0.00
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00
Intertidal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral muddy sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral seagrass	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00
Intertidal hard structures - Artificial hard structures	Intertidal hard structures	0.00	0.00	0.00
Intertidal hard structures - Artificial features of hard structures	Intertidal hard structures	0.00	0.00	0.00
Heathland and shrub - Other sea buckthorn scrub	Heathland and shrub	0.00	0.00	0.00
		-320.86	0.00	-320.86

Low Distinctiveness Summary

Low Distinctiveness net change in units	-320.86 ⚠
Cumulative surplus of units	949.18 ✓

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Trading summary area habitats

Trading summary watercourses

Trading Summary

Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Same habitat required =	Yes ✓
High	Like for like or better	No ▲
Medium	Same distinctiveness or better habitat required	Yes ✓
Low	Same distinctiveness or better habitat required	Yes ✓
Very Low	Same distinctiveness or better habitat required	Yes ✓

Very High Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project-wide unit change	
Species-rich native hedgerow with trees - associated with bank or ditch	0.35	0.00	0.35	✓
	0.35	0.00	0.35	

Very High Distinctiveness Summary

Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.35	✓
Remaining losses: Like for like not satisfied	0.00	

High Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project wide unit change	
Species-rich native hedgerow with trees	0.43	0.00	0.43	✓
Species-rich native hedgerow - associated with bank or ditch	-0.39	0.00	-0.39	⚠
Native hedgerow with trees - associated with bank or ditch	1.06	0.00	1.06	✓
	1.10	0.00	1.10	

High Distinctiveness Summary

High Distinctiveness Units available to offset lower distinctiveness deficit	1.50	✓
High Distinctiveness losses to be offset by trading up	-0.39	⚠
Higher Distinctiveness surplus units minus any high distinctiveness deficit	-0.05	⚠

Medium Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project wide unit change	
Species-rich native hedgerow	50.74	0.00	50.74	✓
Native hedgerow - associated with bank or ditch	0.62	0.00	0.62	✓
Native hedgerow with trees	4.22	0.00	4.22	✓
Ecologically valuable line of trees	0.00	0.00	0.00	
Ecologically valuable line of trees - associated with bank or ditch	0.00	0.00	0.00	
	55.58	0.00	55.58	

Medium Distinctiveness Summary

Units available from higher distinctiveness habitats	1.50	✓
Medium Distinctiveness net change in units	55.58	✓
Cumulative availability of units	57.08	✓

Low Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project wide unit change	
Native hedgerow	0.84	0.00	0.84	✓
Line of trees	0.21	0.00	0.21	✓
Line of trees - associated with bank or ditch	0.00	0.00	0.00	
	1.05	0.00	1.05	

Low Distinctiveness Summary

Low Distinctiveness net change in units	1.05	✓
Cumulative availability of units	58.13	✓

Very Low Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Non-native and ornamental hedgerow	0.00	0.00	0.00
	0.00	0.00	0.00

Very Low Distinctiveness Summary

Very Low Distinctiveness net change in units	0.00	
Cumulative availability of units	58.13	✓

Return to results menu

Trading summary area habitats

Trading summary hedgerows

Trading Summary

Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Same habitat required – bespoke compensation option ⚠	Yes ✓
High	Same habitat required =	Yes ✓
Medium	Same habitat required =	Yes ✓
Low	Better distinctiveness habitat required	Yes ✓

Very High Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project-wide unit change
Priority habitat	0.00	0.00	0.00
	0.00	0.00	0.00

Very High Distinctiveness Summary

Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00	
Remaining losses: Like for like not satisfied	0.00	

High Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project-wide unit change	
Other rivers and streams	1.89	0.00	1.89	✓
	1.89	0.00	1.89	

High Distinctiveness Summary

High Distinctiveness Units available to offset lower distinctiveness deficit	1.89	✓
Remaining losses: Like for like not satisfied	0.00	

Medium Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project wide unit change	
Ditches	1.97	0.00	1.97	✓
Canals	0.00	0.00	0.00	
	1.97	0.00	1.97	

Medium Distinctiveness Summary

Medium Distinctiveness Units available to offset Lower Distinctiveness Deficit	1.97	✓
Remaining losses: Like for like not satisfied	0.00	

Low Distinctiveness

Habitat group	On-site unit change	Off-site unit change	Project wide unit change
Culvert	0.00	0.00	0.00
	0.00	0.00	0.00

Low Distinctiveness Summary

Low Distinctiveness net change in units	0.00	
Cumulative availability of units	3.86	✓

Summary of sites providing area habitat unit gains						
Gain site reference	Off-site units: baseline	Off-site units: retained	Off-site units: enhanced	Off-site units: created	Off-site unit change per gain site (pre-Mitt)	Off-site unit change per gain site (post-Mitt)

Summary of sites providing hedgerow unit gains						
Gain site reference	Off-site units: baseline	Off-site units: retained	Off-site units: enhanced	Off-site units: created	Off-site unit change per gain site (pre-Mitt)	Off-site unit change per gain site (post-Mitt)

Summary of sites providing watercourse unit gains						
Gain site reference	Off-site units: baseline	Off-site units: retained	Off-site units: enhanced	Off-site units: created	Off-site unit change per gain site (pre-Mitt)	Off-site unit change per gain site (post-Mitt)

Irreplaceable area habitats on-site

● For further information please refer to the irreplaceable habitats section of the metric user guide. This sheet is autopopulated from the A1 on-site habitat baseline tab, with the exception of irreplaceable habitat name.

Habitat reference	Metric habitat type	Irreplaceable habitat name	Total area at baseline	Area retained	Area enhanced	Area lost	Bespoke compensation agreed for losses?	User comments	Planning authority comments	Habitat reference number
	Irreplaceable habitat area including individual trees, green walls and intertidal hard structures:		0.00							
	Total irreplaceable habitat area excluding individual trees, green walls and intertidal hard structures:		0.00							

Irreplaceable area habitats off-site

● For further information please refer to the irreplaceable habitats section of the metric user guide. This sheet is autopopulated from the D1 off-site habitat baseline tab, with the exception of irreplaceable habitat name.

Habitat reference	Metric Habitat type	Irreplaceable habitat name	Total area at baseline	Area retained	Area enhanced	Area lost	Bespoke compensation agreed for losses?	User comments	Planning authority comments	Habitat reference number
	Irreplaceable habitat area including individual trees, green walls and intertidal hard structures:		0.00							
	Total irreplaceable habitat area excluding individual trees, Green walls and intertidal hard structures:		0.00							

Project Name: Stonestreet Green Solar Farm   Map Reference:

A-1 On-Site Habitat Baseline

Condense / Show Columns

Condense / Show Rows

Main Menu

Area habitat summary	
Total Net Unit Change	946.70
Total Net % Change	186.65%
Trading Rules Satisfied	No - check trading summaries ⚠

Please ensure the watercourse details for any watercourse footprints recorded are included in the watercourse tabs ⚠

	Existing area habitats				Distinctiveness		Condition		Strategic significance				Ecological baseline								Comments		
Ref	Broad Habitat	Habitat Type	Irreplaceable habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Required Action to Meet Trading Rules	Total habitat units	Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost	Bespoke compensation agreed for losses of VHDH or irreplaceable habitat	User comments	Planning authority comments	Habitat reference number
1	Cropland	Horticulture	No	29.23	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	58.46			0.00	0.00	29.23	58.46		Existing arable, all to be converted to PV Array grassland or BIAs		
2	Cropland	Temporary grass and clover leys	No	28.025	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	56.05			0.00	0.00	28.03	56.05		Existing arable, all to be converted to PV Array grassland or BIAs		
3	Cropland	Cereal crops	No	73.021	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	146.04	1.962		3.92	0.00	71.06	142.12		Existing arable, all to be converted to PV Array grassland or BIAs. Retention accounts for cable route - inc minor temp impact only of cable installation		
4	Cropland	Non-cereal crops	No	34.657	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	69.31			0.00	0.00	34.66	69.31		Existing arable, all to be converted to PV Array grassland or BIAs aside from cable route		
5	Grassland	Other neutral grassland	No	0.934	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	12.33		0.934	0.00	12.33	0.00	0.00		Existing grassland within the proposed BIA between Field 10 and 11 is assigned good condition due to the sward diversity and structure		
6	Grassland	Other neutral grassland	No	5.194	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	22.85		4.068	0.00	17.90	1.13	4.95		Existing pasture within the south of the Site (Field 8) has been assessed as poor condition based on lack of sward diversity. 1.126 ha loss to account for invertors and new habitats to be created here		
7	Grassland	Other neutral grassland	No	9.428	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	82.97		9.079	0.00	79.90	0.35	3.07		Majority of arable grassland fringes are assigned as moderate condition. Applies to grassland in the 'Central Area' 'South Western Area' and 'Northern Area'. 0.349ha loss for Inverter Stations, internal access tracks and habitat creation		
8	Grassland	Other neutral grassland	No	0.68	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	2.99		0.68	0.00	2.99	0.00	0.00		Arable grassland fringes in the 'South Eastern Area' assigned as poor condition due to agricultural damage and limited diversity		
9	Grassland	Other neutral grassland	No	1.938	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	17.05	1.938		17.05	0.00	0.00	0.00		Cable Route Corridor grassland to be retained and not impacted / temporary impact only		
10	Woodland and forest	Lowland mixed deciduous woodland	No	1.23	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same habitat required =	16.97	1.23		16.97	0.00	0.00	0.00		Existing woodland to be retained. Minor loss of trees in Field 26 substation boundary		
11	Woodland and forest	Wet woodland	No	0.512	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same habitat required =	7.07	0.512		7.07	0.00	0.00	0.00		Existing wet woodland to be retained entirely		
12	Woodland and forest	Wet woodland	No	0.278	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same habitat required =	3.84			0.00	0.00	0.28	3.84		Wet woodland on Sellindge Substation boundary. Highly unlikely to be lost but accounted for as loss as worst case / impacts not fully define		
13	Heathland and shrub	Mixed scrub	No	1.083	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	9.53	0.805		7.08	0.00	0.28	2.45		Existing scrub, majority to be retained. Scrub removal in Fields 1 and 2, plus minor removals to facilitate Sellindge Substation extension and habitat features		
14	Heathland and shrub	Mixed scrub	No	0.093	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	0.41			0.00	0.00	0.09	0.41		Mixed scrub on Sellindge Substation boundary. Highly unlikely to be lost but accounted for as loss as worst case / impacts not fully define		
15	Sparsely vegetated land	Ruderal/Ephemeral	No	0.092	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.18			0.00	0.00	0.09	0.18		Ruderal / emphemeral on Sellindge Substation boundary. Accounted for as loss as worst case / impacts not fully defined		
16	Lakes	Ponds (priority habitat)	No	0.083	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same habitat required =	1.15	0.083		1.15	0.00	0.00	0.00		Existing ponds to be retained		
17	Watercourse footprint	Watercourse footprint	No	1.135	V.low	0	N/A - Other	0	Formally identified in local strategy	High strategic significance	1.15	Compensation Not Required	0.00	1.135		0.00	0.00	0.00	0.00		Refer to river units		
18	Urban	Developed land; sealed surface	No	2.245	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00	1.995		0.00	0.00	0.25	0.00		u1b - Primarily road network and hardstanding within Order limits. All hardstanding / sealed areas aggregated for ease of metric use		
19	Urban	Developed land; sealed surface	No	1.818	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00	1.818		0.00	0.00	0.00	0.00		u1b6 - Primarily Sellindge Substation area. All hardstanding / sealed areas aggregated for ease of metric use. Retention of existing roads, replacement of hardstanding access routes		
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			Total habitat area	191.68									507.21	11.48	14.76	53.26	113.12	166.44	340.84				
			Site Area (Excluding area of individual trees, green walls, intertidal hard structures)	191.68																			

Total area lost (excluding area of individual trees, green walls and intertidal hard structures)	166.44

M² to hectares conversion tool:	Select a unit	Hectares	M²

Project Name: Stonestreet Green Solar Farm   Map Reference:

A-2 On-Site Habitat Creation

Condense / Show Columns | Condense / Show Rows | Main Menu

Area habitat summary	
Total Net Unit Change	946.70
Total Net % Change	186.68%
Trading Rules Satisfied	No - check trading summaries ▲
Area Check	Area Acceptable ✓

Note; Habitat selected has a time to target condition greater than 30 years. Non standard agreement may be required.

	Post intervention habitats			Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty multipliers					Comments		
Ref	Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Habitat units delivered	User comments	Planning authority comments	Habitat reference number
1	Grassland	Other neutral grassland	27.222	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	251.63	Grassland - Other neutral grassland PV array and BIA EM1 grassland. Total is total EM1 within fenced areas (37.917) minus retained boundaries / grassland within future fencing.		PROV - total of 37.917 total G3c within fenced areas minus approx 8ha of already existing grassland overlapping fenced areas
2	Grassland	Other neutral grassland	100.166	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	5			Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	737.63	Grassland - Other neutral grassland PV array 'MeadowMax. Note excludes retention of existing grassland in Field 8		
3	Grassland	Other neutral grassland	14.631	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	135.24	Grassland - Other neutral grassland Tussock grassland EM8 margins / BIA tussocks.		
4	Grassland	Other neutral grassland	9.245	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	85.46	Proposed BIA wet meadow grassland (EM8) in Field 26-19 BIA		
5	Grassland	Modified grassland	2.378	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1			Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	4.59	Accounting for grasscrete tracks seeded with fescue mix and functionally acting as and managed as grass sward		
6	Woodland and forest	Lowland mixed deciduous woodland	3.068	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	30+			Standard time to target condition applied	30+	0.320	High	Standard difficulty applied	High	0.33	4.47	Woodland mixtures meet the species composition for 'Lowland Deciduous Mixed Woodland' , . These woodlands are assessed as achieving moderate condition to account for a degree of uncertainty for these habitats maturing over long time		
7	Woodland and forest	Wet woodland	0.251	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	15			Standard time to target condition applied	15	0.586	Medium	Standard difficulty applied	Medium	0.67	1.36	Woodland mixtures have been assigned as meeting 'Wet Woodland', from review of the appropriate native mixes proposed. These woodlands are assessed as achieving moderate condition to account for a degree of uncertainty for these habitats maturing over long time scales.		
8	Grassland	Traditional orchards	0.656	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	20			Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	4.44	orchard has been assessed as meeting HPI criteria as non-intensively managed with a species rich grassland understorey		
9	Heathland and shrub	Mixed scrub	0.769	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10			Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	7.11	Scrub / woodland edge planting has been assessed as mixed scrub in good condition to reflect the diverse native mix proposed and proposed management.		
10	Lakes	Ponds (priority habitat)	0.088	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	5			Standard time to target condition applied	5	0.837	Medium	Standard difficulty applied	Medium	0.67	1.02	Created ponds have been assessed as meeting the criteria for a HPI and as 'good' condition to reflect the targeting of these features as wildlife habitat ponds		
11	Lakes	Temporary lakes ponds and pools (H3170)	0.443	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	3			Standard time to target condition applied	3	0.899	Medium	Standard difficulty applied	Medium	0.67	3.68	Created habitat scrapes classed as wetland features in 'moderate condition' to reflect wet meadow seeding with EM8 Wet Meadow mixture. Enhances East Stour River flood basin.		
12	Urban	Sustainable drainage system	0.254	Low	2	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3			Standard time to target condition applied	3	0.899	Medium	Standard difficulty applied	Medium	0.67	0.67	Sustainable urban drainage features have been classified as 'eutrophic standing water, sustainable urban drainage' in 'moderate condition' to reflect creation to benefit biodiversity but with primary functionality as drainage		
13	Cropland	Arable field margins game bird mix	2.21	Medium	4	Condition Assessment N/A	1	Formally identified in local strategy	High strategic significance	1.15	1			Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	9.81	Bird crop strips have been assigned to arable habitat categories		
14	Urban	Developed land; sealed surface	0.638	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0			Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Low	1	0.00	Project Substation and access route creation		
15	Urban	Developed land; sealed surface	2.96	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0			Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Low	1	0.00	To account for Inverter Stations and Intermediate Substations withhin fields but PV panels are included within grassland (as sward can establish underneath)		
16	Urban	Developed land; sealed surface	0.463	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0			Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Low	1	0.00	Worst case Sellidnge Substation habitat loss to hardstanding (wet woodland hab base ref 12 (0.278), mixed scrub ref 14 (0.093), ruderal ref 15 (0.092)		
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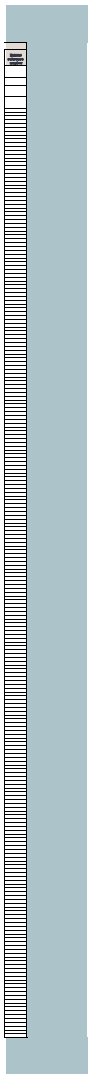
		Total habitat area	165.44																	Total Units	1247.12			

Site Area (Excluding area of individual trees, green walls, intertidal hard structures)	165.44			
M² to hectares conversion tool:	Select a unit	Hectares	M²	



Project Name: Stonestreet Green Solar Farm   Map Reference:

D-1 Off-Site Habitat Baseline

Condense / Show Columns | Condense / Show Rows | Main Menu

Area habitat summary	
Total Net Unit Change	948.70
Total Net % Change	188.88%
Trading Rules Satisfied	No - check trading summaries ▲

	Existing area habitats				Distinctiveness		Condition		Strategic significance				Spatial risk multiplier	Ecological								Comments			
Ref	Broad habitat	Habitat type	Irreplaceable habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Required Action to Meet Trading Rules	Spatial risk category	Total habitat units	Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area lost	Units lost	Bespoke compensation agreed for losses of VHDH or irreplaceable habitat	User comments	Planning authority comments	Habitat reference	Off-site reference
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			Total habitat area	0.00										0.00	0.00	0.00	0.00	0.00	0.00	0.00					

Site Area (Excluding area of individual trees, green walls, intertidal hard structures)	0.00

M² to hectares conversion tool:	Select a unit	Hectares	M²

Total area lost (excluding area of individual trees, green walls and intertidal hard structures)	0.00

Project Name: Stonestreet Green Solar Farm Map Reference:

D-2 Off-Site Habitat Creation

Condense / Show Columns | Condense / Show Rows | Main Menu

Area habitat summary	
Total Net Unit Change	946.70
Total Net % Change	186.65%
Trading Rules Satisfied	No - check trading summaries ⚠
Area Check	Area Acceptable ✓

	Post intervention habitats																										
								Strategic significance			Temporal risk multiplier						Difficulty risk multipliers				Spatial risk multiplier		Comments				
Ref	Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Spatial risk category	Habitat units delivered	User comments	Planning authority comments	Habitat reference	Off-site reference	Baseline Ref
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		Total habitat area	0.00																			0.00					

Site Area (Excluding area of individual trees, green walls, intertidal hard structures)	0.00		
M² to hectares conversion tool:	Select a unit	Hectares	M²

take account of trading
take account of trading

Project Name: Stonestreet Green Solar Farm Map Reference:

D-3 Off-Site Habitat Enhancment

Condense / Show Columns Condense / Show Rows

Main Menu

Area habitat summary	
Total Net Unit Change	346.70
Total Net % Change	100.00%
Trading Rules Satisfied	No - Check trading summaries ⚠

	Baseline habitats										Proposed Habitat (Broad habitat pre-populated but can be overridden)		Change in distinctiveness and condition		Post intervention habitats					Strategic significance			Temporal multiplier						Difficulty multipliers			
Baseline ref	Baseline habitat	Total habitat area (hectares)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category	Baseline strategic significance score	Baseline habitat units	Required Action to Meet Trading Rules	Proposed Broad Habitat	Proposed Habitat	Distinctiveness change	Condition change	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard time to target condition (years)	Habitat enhanced in advance (years)	Delay in starting habitat enhancement (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Difficulty of enhancement category	Applied difficulty multiplier	Difficulty	Difficulty multiplier applied
														Total habitat area	0.00																	

Spatial risk multiplier	Habitat units delivered	Comments			
Spatial risk category		User comments	Planning authority comments	Habitat reference	Off-site reference
	0.00				

Project Name: Stonestreet Green Solar Farm **Map Reference:**

B-1 On-Site Hedge Baseline

Condense / Show Columns | Condense / Show Rows | Main Menu

Hedgerow summary	
Total Net Unit Change	58.08
Total Net % Change	36.28%
Trading Rules Satisfied	No - check trading summary ▲

	Existing hedgerow habitats			Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Ecological baseline							Comments		
Ref	Hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier		Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Planning authority comments	Habitat reference number
1	1A (H2)	Species-rich native hedgerow - associated with bank or ditch	0.432	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	8.94	0.426		8.82	0.00	0.01	0.12	Note only hedgerows with possible condition improvemnts are included as enhanced for simplicity. Where a hedgerow is already good conditon it is assessed as retained even though management will be improved. Losses in each section are detailed in this column -both permanent and temporary loss are accounted for as loss in the metric T-HR2-3-A 5m loss		
2	1D	Native hedgerow with trees	0.306	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	4.04	0.306		4.04	0.00	0.00	0.00			
3	2A (H6)	Native hedgerow	0.442	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.92	0.438		2.89	0.00	0.00	0.03	T-HR2-3-B 5m loss		
4	2B	Species-rich native hedgerow with trees	0.082	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	1.13		0.079	0.00	1.09	0.00	0.04	Loss 3.176m HR2-3		
5	2C	Species-rich native hedgerow with trees	0.048	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	0.99	0.048		0.99	0.00	0.00	0.00			
6	Goldwell Lane	Species-rich native hedgerow - associated with bank or ditch	0.172	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	3.56	0.164		3.39	0.00	0.01	0.17	TR H20 - 8m temp loss		
7	2E	Native hedgerow	0.356	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.35	0.341		2.25	0.00	0.02	0.10	HR2-6 1.547m loss T-HR3-7 5m loss		
8																			5m loss		
9	3A	Native hedgerow - associated with bank or ditch	0.159	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	2.19	0.159		2.19	0.00	0.00	0.00			
10	3B	Native hedgerow	0.151	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.00	0.14		0.92	0.00	0.01	0.07	Loss 5.362M HR3-2 T-HR4-5 5m loss		
11	4A	Species-rich native hedgerow - associated with bank or ditch	0.46	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	9.52	0.46		9.52	0.00	0.00	0.00			
12	4B	Species-rich native hedgerow with trees - associated with bank or ditch	0.234	V.High	8	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like	6.46	0.234		6.46	0.00	0.00	0.00			
13	4C	Species-rich native hedgerow with trees - associated with bank or ditch	0.25	V.High	8	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like	6.90	0.25		6.90	0.00	0.00	0.00			
14	5A	Species-rich native hedgerow - associated with bank or ditch	0.676	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	13.99	0.671		13.89	0.00	0.01	0.10	T-HR9-12-A 5m loss		
15	5B	Native hedgerow	0.227	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.50	0.217		1.43	0.00	0.01	0.07	T-HR6-9-A 5m loss T-HR6-9-B 5m los		
16	5C	Species-rich native hedgerow with trees - associated with bank or ditch	0.303	V.High	8	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like	8.36	0.293		8.09	0.00	0.01	0.28	5m loss x2 HR8-9-A 8.547m		
17	6A	Native hedgerow	0.411	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.71	0.406		2.68	0.00	0.00	0.03	HR12-10 5m loss		
18	6B	Species-rich native hedgerow	0.185	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	2.55	0.17		2.35	0.00	0.02	0.21	HR6-7 10m loss HR8-9-A 8.547m		
19	6C	Native hedgerow	0.267	Low	2	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.59		0.267	0.00	0.59	0.00	0.00			
20	6D	Native hedgerow with trees	0.381	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.68		0.381	0.00	1.68	0.00	0.00			
21	7A	Native hedgerow	0.442	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	3.05	0.442		3.05	0.00	0.00	0.00	T-HR9-12-B 3m loss		
22	7B	Species-rich native hedgerow	0.209	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.96		0.209	0.00	0.96	0.00	0.00			
23						Poor	1														
24	7C	Line of trees	0.115	Low	2	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.51		0.115	0.00	0.51	0.00	0.00			
25	7E	Native hedgerow with trees - associated with bank or ditch	0.147	High	6	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better	1.94		0.142	0.00	1.87	0.01	0.07	R17-18 9.868m loss		
26	7F	Native hedgerow with trees - associated with bank or ditch	0.165	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better	3.27	0.155		3.07	0.00	0.01	0.20	HR15-18 10.515m loss		
27	7G	Native hedgerow - associated with bank or ditch	0.084	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.37		0.084	0.00	0.37	0.00	0.00			
28	7H	Native hedgerow with trees - associated with bank or ditch	0.213	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better	4.22	0.213		4.22	0.00	0.00	0.00			
29	7I	Native hedgerow with trees - associated with bank or ditch	0.665	High	6	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better	13.17	0.648		12.83	0.00	0.02	0.34	HR11-14 5m loss HR14-17 12.184m loss 1.128 permanent 2.056 To be reinstated		
30																					
31	8A	Native hedgerow	0.067	Low	2	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.29		0.059	0.00	0.26	0.01	0.04	8m loss		
32	8B	Native hedgerow with trees	0.221	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.97	0.22		0.97	0.00	0.00	0.00	HR8-9-B 0.586m		
33																					
34	11A	Native hedgerow	0.062	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.43	0.062		0.43	0.00	0.00	0.00			
35	11B	Native hedgerow	0.118	Low	2	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.52		0.118	0.00	0.52	0.00	0.00			
36	11C	Native hedgerow	0.166	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.10	0.166		1.10	0.00	0.00	0.00			
37																					
38	13A	Species-rich native hedgerow with trees - associated with bank or ditch	0.398	V.High	8	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like	10.98	0.398		10.98	0.00	0.00	0.00			
39	13B	Native hedgerow with trees - associated with bank or ditch	0.149	High	6	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Like for like or better	1.97		0.149	0.00	1.97	0.00	0.00			
40	13C	Species-rich native hedgerow with trees - associated with bank or ditch	0.091	V.High	8	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Like for like	1.67		0.091	0.00	1.67	0.00	0.00			
41																					
42																					
43	14A	Species-rich native hedgerow with trees	0.587	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	12.15	0.587		12.15	0.00	0.00	0.00			
44																					
45	14C	Native hedgerow with trees	0.246	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.16		0.246	0.00	2.16	0.00	0.00			
46	15A	Native hedgerow with trees	0.296	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.60		0.286	0.00	2.52	0.01	0.09	HR23-24-A 5.756m loss HR23-24-B 5m loss		
47	2F	Native hedgerow	0.152	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.00	0.152		1.00	0.00	0.00	0.00			
48																					
49	16A	Native hedgerow with trees	0.233	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	3.08	0.228		3.01	0.00	0.01	0.07	HR25 3.932m loss		
50	16B	Native hedgerow	0.281	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.85	0.275		1.82	0.00	0.01	0.04	HR24-25 1m loss T-HR24-25 5m loss		
51	17A	Species-rich native hedgerow with trees	0.03	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	0.62	0.03		0.62	0.00	0.00	0.00			
52	17B	Species-rich native hedgerow with trees	0.039	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	0.81	0.039		0.81	0.00	0.00	0.00			
53	16B	Line of trees	0.145	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.96	0.145		0.96	0.00	0.00	0.00			
54	19B	Native hedgerow with trees	0.177	Medium	4	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.34	0.177		2.34	0.00	0.00	0.00			
55	21A	Line of trees	0.233	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	1.54	0.233		1.54	0.00	0.00	0.00			
56	22A	Line of trees	0.068	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.45	0.068		0.45	0.00	0.00	0.00			
57	22A	Native hedgerow	0.428	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	2.82	0.408		2.69	0.00	0.02	0.13	HR19 3m loss HR23-1 5m loss HR23-2 3m loss		
58	22B	Native hedgerow	0.136	Low	2	Good	3	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness band or better	0.90	0.136		0.90	0.00	0.00	0.00			
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Project Name: Stonestreet Green Solar Farm   Map Reference:

B-2 On-Site Hedge Creation

Condense / Show Columns | Condense / Show Rows | Main Menu

Hedgerow summary	
Total Net Unit Change	88.08
Total Net % Change	36.28%
Trading Rules Satisfied	No - check trading summary ▲

		Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty risk multipliers				Hedge units delivered	Comments		
Ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied		User comments	Planning authority comments	Habitat reference number
1		Species-rich native hedgerow	5.495	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	12			Standard time to target condition applied	12	0.652	Low	Standard difficulty applied	Low	1	49.45	Total new hedgerow creation on site. Some lengths do include trees but for simplicity all creation has been aggregated as species rich hedge, good condition.		
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AI-Assist Interactive Conceptual Form — Map Version

3-2 Co-Site Hedge Enhancement

Assessment Type: Conceptual

Assessment Scope: Hedge Network

Map Version: Conceptual

Assessment Summary

Feasibility/Confidence	Medium
Total Pre-Ex Points	0
Feasibility Band	Low (0–39) · Medium (40–59) · High (60–79) · Very High (80–100)

Section Actions | Hedgerow Characteristics and Condition | Connectivity | Creation | Strategic Significance | Financial Multiplier | Delivery and Multiplier | Total Pre-Ex Points | Comments

Section Unit	Section Action	Length (km)	Baseline Hedge Type	Baseline Condition	Baseline Management	Baseline Width (m)	Baseline Height (m)	Baseline Gaps (%)	Hedgerow Habitat Value	Hedgerow Habitat	Baseline Characteristics	Condition Assessment	Connectivity	Distance (km)	Creation	Distance (km)	Strategic Significance	Strategic Importance	Area Eligible for Payment (ha)	Management Agreement Income (£/year)	Capital Funding Available (£)	Distance to Market or Supply Facilities	Availability of Skilled Labour	Expertise Available	Ecological Enhancement	Public Amenity Multiplier	Cross-Boundary or Collaborative	Delivery Multiplier	Total Pre-Ex Points	User Comments	Planning Authority Comments	Officer Comments
1	Gap Infill and Hedge Laying	0.120	Hedge	A	Actively Managed	1.5	1.8	15	Priority Habitat Inventory	Gap Infill and Hedge Laying	Hedge - Hedge	Actively Managed	Actively Managed	0	Actively Managed	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Gap Infill and Hedge Laying		
2	Hedge Planting	0.120	None	A	None	0	0	0	Priority Habitat Inventory	Hedge Planting	None - Hedge	None	None	0	None	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Hedge Planting		
3	Hedge Planting	0.120	None	A	None	0	0	0	Priority Habitat Inventory	Hedge Planting	None - Hedge	None	None	0	None	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Hedge Planting		
4	Hedge Planting	0.120	None	A	None	0	0	0	Priority Habitat Inventory	Hedge Planting	None - Hedge	None	None	0	None	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Hedge Planting		
5	Hedge Planting	0.120	None	A	None	0	0	0	Priority Habitat Inventory	Hedge Planting	None - Hedge	None	None	0	None	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Hedge Planting		
6	Gap Infill and Hedge Laying	0.120	Hedge	A	Actively Managed	1.5	1.8	15	Priority Habitat Inventory	Gap Infill and Hedge Laying	Hedge - Hedge	Actively Managed	Actively Managed	0	Actively Managed	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Gap Infill and Hedge Laying		
7	Hedge Planting	0.120	None	A	None	0	0	0	Priority Habitat Inventory	Hedge Planting	None - Hedge	None	None	0	None	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Hedge Planting		
8	Hedge Planting	0.120	None	A	None	0	0	0	Priority Habitat Inventory	Hedge Planting	None - Hedge	None	None	0	None	0	Strategic significance	Medium	0.12	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	0	Hedge Planting		

Project Name: Stonestreet Green Solar Farm	Map Reference
E-1 Off-Site Hedge Baseline	

Condense / Show Columns | Condense / Show Rows | Main Menu

Hedgerow summary	
Total Net Unit Change	58.08
Total Net % Change	36.28%
Trading Rules Satisfied	No - check trading summary ▲

	Existing hedgerow habitats			Distinctiveness		Condition		Strategic significance			Required Action to Meet Trading Rules	Spatial risk multiplier	Ecological baseline							Comments			
Ref	Hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier		Spatial risk category	Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Planning authority comments	Habitat reference	Off-site reference
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Project Name: Stonestreet Green Solar Farm   Map Reference:

E-2 Off-Site Hedge Creation

Condense / Show Columns   Condense / Show Rows

Main Menu

Hedgerow summary	
Total Net Unit Change	88.08
Total Net % Change	35.28%
Trading Rules Satisfied	No - check trading summary ⚠

		Proposed habitats		Distinctiveness		Condition		Strategic significance			Spatial risk multiplier	Temporal multiplier						Difficulty risk multipliers				Hedge units delivered	Comments				
Ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Spatial risk category	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied		User comments	Planning authority comments	Habitat reference	Off-site reference	Baseline ref
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Project Name: Stonestreet Green Solar Farm

E-3 Off-Site Hedge Enhancement

Condense / Show Columns | Condense / Show Rows | Main Menu

Hedgerow summary	
Total Net Unit Change	56.08
Total Net % Change	36.86%
Trading Rules Satisfied	No - check trading summary ⚠

	Baseline habitats										Post intervention habitats																										
											Proposed habitat	Change in distinctiveness and condition		Length (km)	Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty risk multipliers				Spatial risk multiplier	Hedge units delivered	Comments		
Baseline ref	Baseline habitat	Length (km)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category	Baseline strategic significance score	Baseline habitat units	Required Action to Meet Trading Rules		Distinctiveness movement	Condition movement		Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat enhanced in advance (years)	Delay in starting habitat enhancement (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of enhancement	Applied difficulty multiplier	Final difficulty of enhancement	Difficulty multiplier applied	Spatial risk category		User comments	Planning authority comments	Habitat reference
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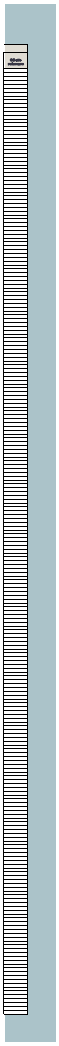

Project Name: Stonestreet Green Solar Farm	Map
C-1 On-Site WaterC' Baseline	

Condense / Show Columns | Condense / Show Rows | Main Menu

Watercourse summary	
Total Net Unit Change	3.88
Total Net % Change	15.24%
Trading Rules Satisfied	Yes ✓

Existing watercourse type			Distinctiveness		Condition		Strategic significance			Watercourse encroachment		Riparian encroachment		Required Action to Meet Trading Rules	Ecological baseline							Bespoke compensation agreed for losses of VHDH	Comments		
Ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		Total watercourse units	Length retained	Length enhanced	Units retained	Units enhanced	Length Lost	Units Lost		User Comments	Planning authority comments	Habitat reference number
1	Other rivers and streams	1.272	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Minor	0.8	Moderate/ Moderate	0.85	Same habitat required =	11.94	0.13	1.142	1.22	10.72	0.00	0.00		East Stour River. 130m represents section near Sellindge Substation retained but not near landscape enhancements		
2	Ditches	0.7094	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	No Encroachment	1	Moderate/ Moderate	0.85	Same habitat required =	2.65		0.7094	0.00	2.65	0.00	0.00		WB12		
3	Ditches	0.0816	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	No Encroachment	1	Moderate/ Moderate	0.85	Same habitat required =	0.31		0.0816	0.00	0.31	0.00	0.00		WB13		
4	Ditches	0.8201	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	No Encroachment	1	Moderate/ Moderate	0.85	Same habitat required =	6.13		0.8201	0.00	6.13	0.00	0.00		R9 and R10- same ditch		
5	Ditches	0.2933	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	No Encroachment	1	Moderate/ Moderate	0.85	Same habitat required =	1.10		0.2933	0.00	1.10	0.00	0.00		R11 on baseline plan. South East Running Ditch		
6	Ditches	0.2616	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	No Encroachment	1	Moderate/ Moderate	0.85	Same habitat required =	0.98		0.2616	0.00	0.98	0.00	0.00		WB1		
7	Other rivers and streams	0.17	High	6	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	No Encroachment	1	Minor/ Minor	0.95	Same habitat required =	2.23	0.17		2.23	0.00	0.00	0.00		Horton Dyke / Stour tributaries near Sellindge Substation to be unaffected		
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Project Name: Stonestreet Green Solar Farm   Map Reference:

C-2 On-Site WaterC' Creation

Condense / Show Columns   Condense / Show Rows

Main Menu

Watercourse summary	
Total Net Unit Change	3.88
Total Net % Change	15.24%
Trading Rules Satisfied	Yes ✓

	Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty multipliers				Watercourse encroachment		Riparian encroachment		Watercourse units delivered	Comments		
Ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		User comments	Planning authority comments	Habitat reference number
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Project Name: Stonestreet Green Solar Farm | Map Reference

C-3 On-Site WaterC' Enhancement

Condense / Show Columns | Condense / Show Rows | Main Menu

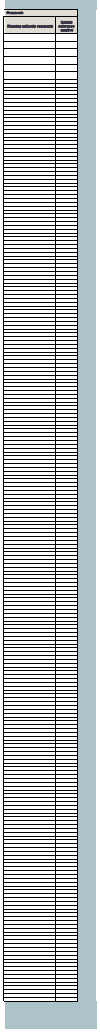
Watercourse summary

Total Net Unit Change	3.88
Total Net % Change	15.24%
Trading Rules Satisfied	Yes ✓

Baseline ref	Baseline habitat	Length (km)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category	Strategic significance	Baseline strategic significance Score	Required Action to Meet Trading Rules	Baseline habitat units
1	Other rivers and streams	1.272	High	6	Moderate	2	Formally identified in local	High strategic significance	1.15	Same habitat required =	11.936448
2	Ditches	0.7094	Medium	4	Poor	1	Location ecologically desirable	Medium strategic significance	1.1	Same habitat required =	2.653156
3	Ditches	0.0816	Medium	4	Poor	1	Location ecologically desirable	Medium strategic significance	1.1	Same habitat required =	0.305184
4	Ditches	0.8201	Medium	4	Moderate	2	Location ecologically desirable	Medium strategic significance	1.1	Same habitat required =	6.134348
5	Ditches	0.2933	Medium	4	Poor	1	Location ecologically desirable	Medium strategic significance	1.1	Same habitat required =	1.096942
6	Ditches	0.2616	Medium	4	Poor	1	Location ecologically desirable	Medium strategic significance	1.1	Same habitat required =	0.978384

Baseline ref	Proposed habitat	Change in distinctiveness and condition: Distinctiveness movement	Condition movement	Length (km)	Habitat distinctiveness: Distinctiveness	Score	Habitat condition: Condition	Score	Strategic significance: Strategic significance	Strategic significance	Strategic significance multiplier
1	Other rivers and streams	High - High	Moderate - Moderate	1.142	High	6	Moderate	2	Formally identified in local strategy	High strategic	1.15
2	Ditches	Medium - Medium	Poor - Poor	0.7094	Medium	4	Poor	1	Location ecologically desirable but	Medium	1.1
3	Ditches	Medium - Medium	Poor - Poor	0.0816	Medium	4	Poor	1	Location ecologically desirable but	Medium	1.1
4	Ditches	Medium - Medium	Moderate - Moderate	0.8201	Medium	4	Moderate	2	Location ecologically desirable but	Medium	1.1
5	Ditches	Medium - Medium	Poor - Poor	0.2933	Medium	4	Poor	1	Location ecologically desirable but	Medium	1.1
6	Ditches	Medium - Medium	Poor - Poor	0.2616	Medium	4	Poor	1	Location ecologically desirable but	Medium	1.1

Baseline ref	Temporal multiplier: Standard Time to target condition (years)	Habitat enhanced in advance (years)	Delay in starting habitat enhancement (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final Time to target multiplier	Difficulty multipliers: Standard difficulty of enhancement	Applied difficulty multiplier	Final difficulty of enhancement	Difficulty multiplier applied	Watercourse encroachment: Extent of encroachment	Multiplier	Riparian encroachment: Extent of encroachment for both banks	Multiplier	Watercourse units delivered	User comments
1	1			Standard time to target condition	1	0.965	Medium	Standard difficulty applied	Medium	0.67	Minor	0.8	No Encroachment/	1	12.61	Removal of arable zone
2	1			Standard time to target condition	1	0.965	Low	Standard difficulty applied	Low	1	No Encroachment	1	No Encroachment/	1	3.12	Removal of arable zone
3	1			Standard time to target condition	1	0.965	Low	Standard difficulty applied	Low	1	No Encroachment	1	No Encroachment/	1	0.36	Removal of arable zone
4	1			Standard time to target condition	1	0.965	Low	Standard difficulty applied	Low	1	No Encroachment	1	No Encroachment/	1	7.22	Removal of arable zone
5	1			Standard time to target condition	1	0.965	Low	Standard difficulty applied	Low	1	No Encroachment	1	No Encroachment/	1	1.29	Removal of arable zone
6	1			Standard time to target condition	1	0.965	Low	Standard difficulty applied	Low	1	No Encroachment	1	No Encroachment/	1	1.15	Removal of arable zone



Project Name: Stonestreet Green Solar Farm Map Reference:

F-1 Off-Site WaterC' Baseline

Condense / Show Columns

Condense / Show Rows

Main Menu

Watercourse summary	
Total Net Unit Change	3.88
Total Net % Change	15.24%
Trading Rules Satisfied	Yes ✓

Existing watercourse type			Distinctiveness		Condition		Strategic significance			Watercourse encroachment		Riparian encroachment		Required Action to Meet Trading Rules	Spatial risk multiplier	Ecological baseline							Bespoke compensation agreed for losses of VHDH	Comments			
Ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		Spatial risk category	Total watercourse units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost		User comments	Planning authority comments	Habitat reference	Off-site reference
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Project Name: Stonestreet Green Solar Farm Map

F-2 Off-Site WaterC' Creation

Condense / Show Columns

Condense / Show Rows

Main Menu

Watercourse summary	
Total Net Unit Change	3.86
Total Net % Change	15.24%
Trading Rules Satisfied	Yes ✓

	Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier						Difficulty multipliers				Watercourse encroachment		Riparian encroachment		Spatial risk multiplier		Comments				
Ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition/years	Final time to target Multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier	Spatial risk category	Watercourse units delivered	User comments	Planning authority comments	Habitat reference number	Off-site reference	Baseline ref
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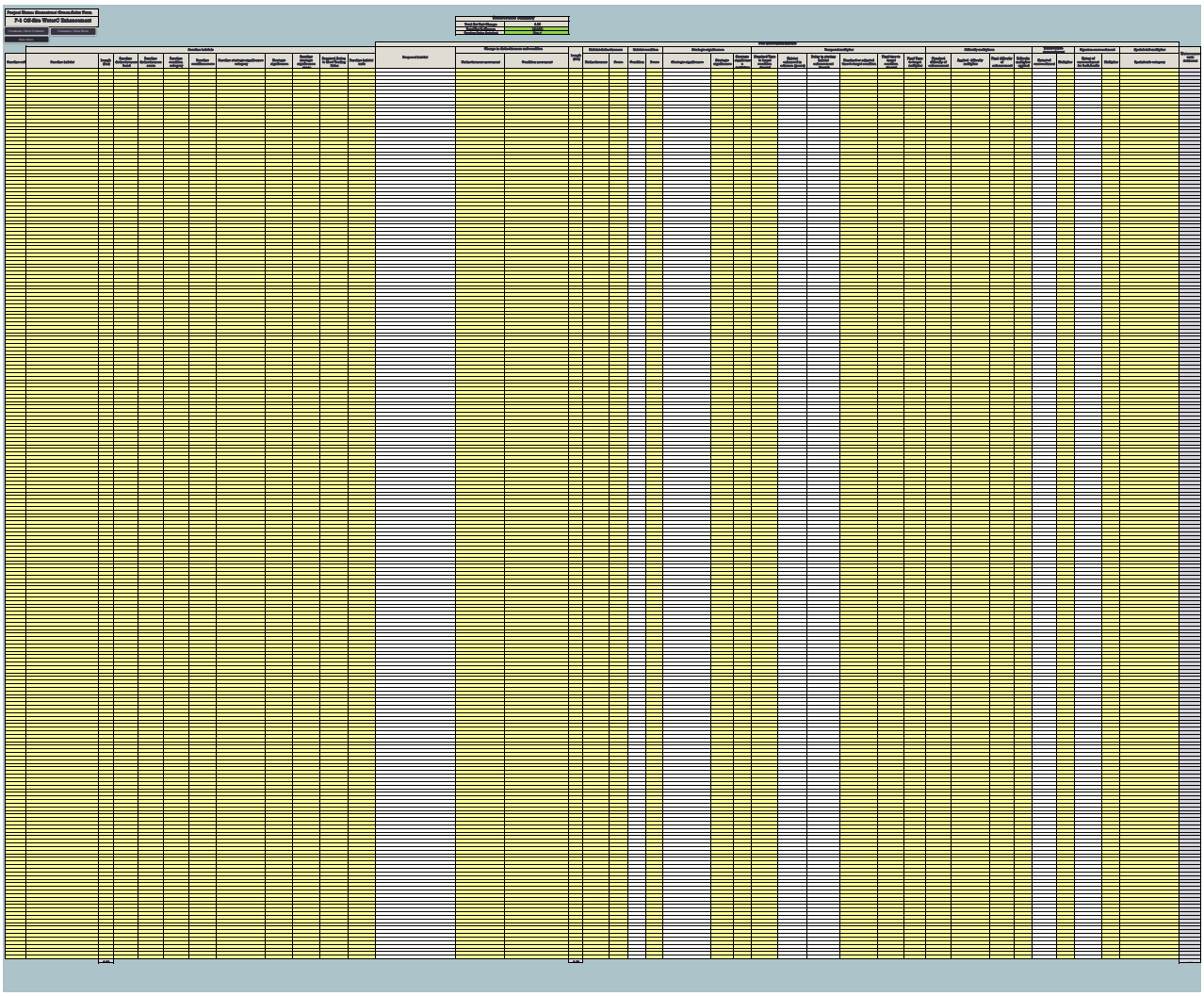
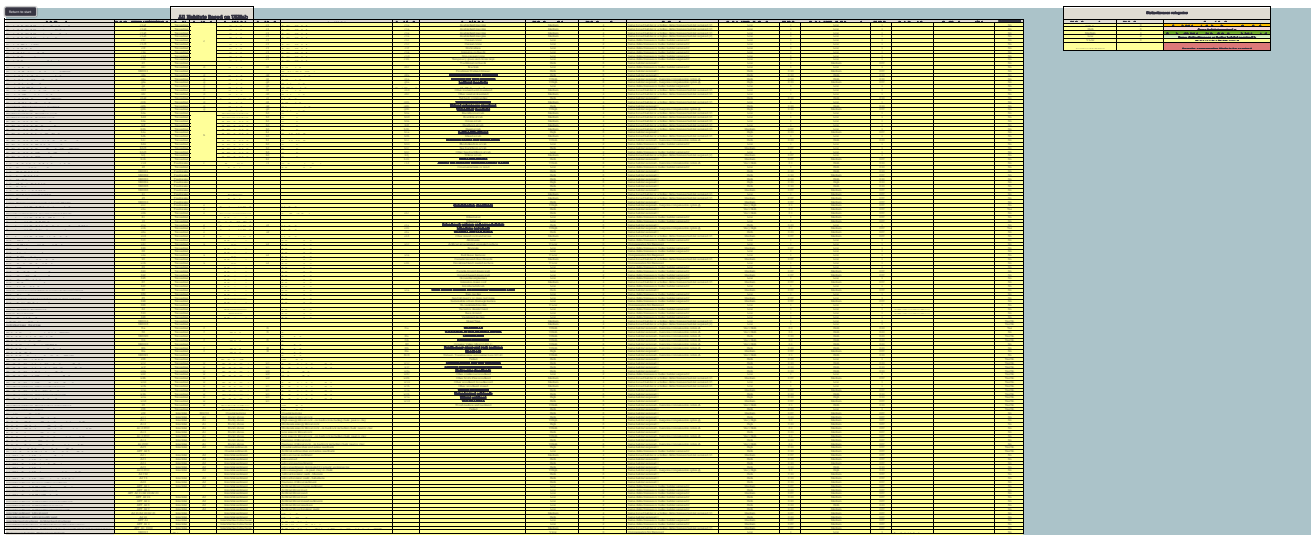


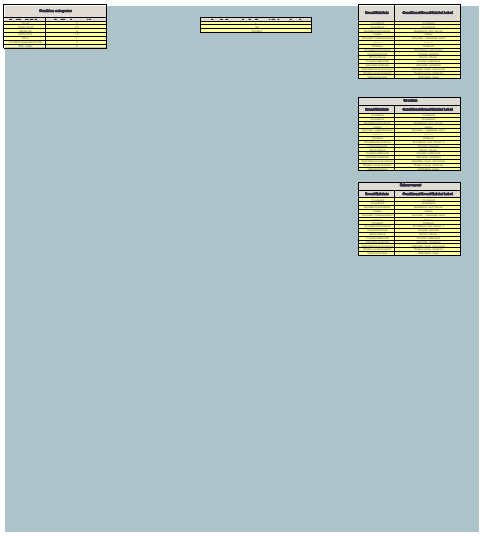
Reagents			
Test reagents	Electrophoretic reagents	Optical density	Effects detection

Retour au sujet

All Soldiers Found on 1939x3

Miscellaneous categories





Return To Start

All Habitats

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Habitat Description	Group	Distinctiveness	Trading Rules	Starting area habitat units	Starting area hedgerow units	Starting area watercourse units	Starting area habitat units	Retained area habitat units	Enhanced area habitat units	Retained area habitat enhancement	Habitat area habitat creation	Habitat area habitat enhancement	Total habitat area post-development	Total habitat area post-development	Net unit change to habitats	Starting area habitat units	Retained area habitat units	Enhanced area habitat units	Habitat area habitat units	Retained area habitat units	Enhanced area habitat units	Habitat area habitat creation	Habitat area habitat enhancement	Total habitat area post-development	Total habitat area post-development	Net unit change to habitats	Net unit change to hedgerows	Net unit change to watercourses	Overall net change
Arable and horticulture - Cereal crops	Cropland	Low	Like for like or better	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Distinctiveness Band Sub-totals

Very High

Habitat Group	Habitats	Habitat Area	Habitat Value Band	Proposed Area (to nearest 0.01)	Proposed Value (to nearest 0.01)	Net Gain Area (Hectares)	Net Gain Unit (Hectares)	Required Area (to nearest 0.01)	Offsite Unit (Hectares)	Net Change Including Off-site	Gain Required (Off-site or Onsite Only)

High

Habitat Group	Habitats	Habitat Area	Habitat Value Band	Proposed Area (to nearest 0.01)	Proposed Value (to nearest 0.01)	Net Gain Area (Hectares)	Net Gain Unit (Hectares)	Required Area (to nearest 0.01)	Offsite Unit (Hectares)	Net Change Including Off-site	Gain Required (Off-site or Onsite Only)

Medium

Habitat Group	Habitats	Habitat Area	Habitat Value Band	Proposed Area (to nearest 0.01)	Proposed Value (to nearest 0.01)	Net Gain Area (Hectares)	Net Gain Unit (Hectares)	Required Area (to nearest 0.01)	Offsite Unit (Hectares)	Net Change Including Off-site	Gain Required (Off-site or Onsite Only)

Low

Habitat Group	Habitats	Habitat Area	Habitat Value Band	Proposed Area (to nearest 0.01)	Proposed Value (to nearest 0.01)	Net Gain Area (Hectares)	Net Gain Unit (Hectares)	Required Area (to nearest 0.01)	Offsite Unit (Hectares)	Net Change Including Off-site	Gain Required (Off-site or Onsite Only)

Very Low

Habitat Group	Habitats	Habitat Area	Habitat Value Band	Proposed Area (to nearest 0.01)	Proposed Value (to nearest 0.01)	Net Gain Area (Hectares)	Net Gain Unit (Hectares)	Required Area (to nearest 0.01)	Offsite Unit (Hectares)	Net Change Including Off-site	Gain Required (Off-site or Onsite Only)

Return to start

Risk

Habitat Description	Technical Difficulty Creation	Multiplier	Technical Difficulty Enhancement	Multiplier
Coastal lagoons - Coastal lagoons	Medium	0.67	Medium	0.67
Coastal saltmarsh - Saltmarshes and saline reedbeds	High	0.33	Medium	0.67
Cropland - Arable field margins cultivated annually	Low	1	Low	1
Cropland - Arable field margins game bird mix	Low	1	Low	1
Cropland - Arable field margins pollen and nectar	Low	1	Low	1
Cropland - Arable field margins tussocky	Low	1	Low	1
Cropland - Cereal crops	Low	1	Low	1
Cropland - Winter stubble	Low	1	Low	1
Cropland - Horticulture	Low	1	Low	1
Cropland - Intensive orchards	Low	1	Low	1
Cropland - Non-cereal crops	Low	1	Low	1
Cropland - Temporary grass and clover leys	Low	1	Low	1
Grassland - Traditional orchards	Low	1	Medium	0.67
Grassland - Bracken	Low	1	Low	1
Grassland - Floodplain wetland mosaic and CFGM	High	0.33	Medium	0.67
Grassland - Lowland calcareous grassland	High	0.33	High	0.33
Grassland - Lowland dry acid grassland	High	0.33	High	0.33
Grassland - Lowland meadows	High	0.33	Medium	0.67
Grassland - Modified grassland	Low	1	Low	1
Grassland - Other lowland acid grassland	Low	1	Low	1
Grassland - Other neutral grassland	Low	1	Low	1
Grassland - Tall herb communities (H6430)	High	0.33	High	0.33
Grassland - Upland acid grassland	Low	1	Low	1
Grassland - Upland calcareous grassland	High	0.33	High	0.33
Grassland - Upland hay meadows	High	0.33	Medium	0.67
Heathland and shrub - Blackthorn scrub	Low	1	Low	1
Heathland and shrub - Bramble scrub	Low	1	Low	1
Heathland and shrub - Gorse scrub	Low	1	Low	1
Heathland and shrub - Hawthorn scrub	Low	1	Low	1
Heathland and shrub - Mixed scrub	Medium	0.67	Low	1
Heathland and shrub - Willow scrub	Medium	0.67	Low	1
Heathland and shrub - Lowland heathland	High	0.33	Medium	0.67
Heathland and shrub - Mixed scrub	Low	1	Low	1
Heathland and shrub - Mountain heaths and willow scrub	High	0.33	High	0.33
Heathland and shrub - Rhododendron scrub	Low	1	Low	1
Heathland and shrub - Dunes with sea buckthorn (H2160)	Medium	0.67	Low	1
Heathland and shrub - Other sea buckthorn scrub	Low	1	Low	1
Heathland and shrub - Upland heathland	Medium	0.67	Medium	0.67
Intertidal sediment - Artificial littoral biogenic reefs	High	0.33	Medium	0.67
Intertidal sediment - Artificial littoral coarse sediment	Medium	0.67	Medium	0.67
Intertidal sediment - Artificial littoral mixed sediments	High	0.33	Medium	0.67
Intertidal sediment - Artificial littoral muddy sand	High	0.33	Medium	0.67
Intertidal sediment - Artificial littoral sand/mud	High	0.33	High	0.33
Intertidal sediment - Features of littoral sediment	High	0.33	Medium	0.67
Intertidal sediment - Littoral biogenic reefs - Sabellaria	High	0.33	Medium	0.67
Intertidal sediment - Littoral coarse sediment	Medium	0.67	Medium	0.67
Intertidal sediment - Littoral mixed sediments	High	0.33	Medium	0.67
Intertidal sediment - Littoral mud	High	0.33	Medium	0.67
Intertidal sediment - Littoral seagrass	High	0.33	High	0.33
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Very High	0.1	High	0.33
Lakes - Aquifer fed naturally fluctuating water bodies	Very High	0.1	High	0.33
Lakes - Ornamental lake or pond	Low	1	High	0.33
Lakes - High salinity lakes	High	0.33	High	0.33
Lakes - Low alkalinity lakes	High	0.33	Medium	0.67
Lakes - Marl lakes	High	0.33	High	0.33
Lakes - Moderate alkalinity lakes	High	0.33	High	0.33
Lakes - Peat lakes	High	0.33	High	0.33
Lakes - Ponds (non-priority habitat)	Low	1	Medium	0.67
Lakes - Ponds (priority habitat)	Medium	0.67	Medium	0.67
Lakes - Reservoirs	Medium	0.67	Medium	0.67
Lakes - Temporary lakes ponds and pools (H3170)	Medium	0.67	Medium	0.67
Rocky shore - Features of littoral rock	High	0.33	Medium	0.67
Rocky shore - Features of littoral rock - on peat, clay or chalk	Very High	0.1	Medium	0.67
Rocky shore - High energy littoral rock	High	0.33	Medium	0.67
Rocky shore - High energy littoral rock - on peat, clay or chalk	Very High	0.1	Medium	0.67
Rocky shore - Low energy littoral rock	High	0.33	Medium	0.67
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Very High	0.1	Medium	0.67
Rocky shore - Moderate energy littoral rock	High	0.33	Medium	0.67
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Very High	0.1	Medium	0.67
Sparsely vegetated land - Calaminarian grasslands	Very High	0.1	Medium	0.67
Sparsely vegetated land - Chalk sand dunes	Very High	0.1	Medium	0.67
Sparsely vegetated land - Coastal vegetated shingle	Very High	0.1	Medium	0.67
Sparsely vegetated land - Inland rock outcrop and scree habitats	Rare	0.33	Low	1
Sparsely vegetated land - Limestone pavement	Very High	0.1	Medium	0.67
Sparsely vegetated land - Maritime cliff and slopes	High	0.33	Medium	0.67
Sparsely vegetated land - Other inland rock and scree	Medium	0.67	Medium	0.67
Sparsely vegetated land - Subalpine/montane	Low	1	Medium	0.67
Sparsely vegetated land - Tall forbs	Low	1	Medium	0.67
Urban - Verges or derelict land	Low	1	Low	1
Urban - Bare ground	Low	1	Low	1
Urban - Allotments	Low	1	Low	1
Urban - Artificial unvegetated, unsealed surface	Low	1	Low	1
Urban - Brownfield	Medium	0.67	Low	1
Urban - Intensive green roof	Low	1	Low	1
Urban - Roll lawn features	Low	1	Low	1
Urban - Ornamental and shrubberies	Medium	0.67	Low	1
Urban - Developed land; sealed surface	Low	1	Low	1
Urban - Other green roof	Low	1	Low	1
Urban - Facade-based green wall	Medium	0.67	Medium	0.67
Urban - Ground-based green wall	Medium	0.67	Medium	0.67
Urban - Ground level planters	Low	1	Low	1
Urban - Biodiverse green roof	Medium	0.67	Medium	0.67
Urban - Introduced shrub	Low	1	Low	1
Urban - Open mosaic habitats on previously developed land	Medium	0.67	Medium	0.67
Urban - Rain gardens	Low	1	Low	1
Urban - Actively worked sand pit quarry or open cast mine	Medium	0.67	Low	1
Individual trees - Urban tree	Low	1	Low	1
Urban - Sustainable drainage system	Medium	0.67	Medium	0.67
Urban - Unvegetated garden	Low	1	Low	1
Urban - Vegetated garden	Low	1	Low	1
Wetland - Blanket bog	Very High	0.1	High	0.33
Wetland - Depressions on peat substrates (H7150)	Very High	0.1	High	0.33
Wetland - Fens (valley and lowland)	High	0.33	High	0.33
Wetland - Lowland raised bog	Very High	0.1	High	0.33
Wetland - Oceanic valley mire (H7130 1)	Very High	0.1	High	0.33
Wetland - Purple moor grass and rush pastures	High	0.33	High	0.33
Wetland - Reedbeds	Medium	0.67	Medium	0.67
Wetland - Transition mires and quaking bogs (H7140)	Very High	0.1	High	0.33
Woodland and forest - Felled	High	0.33	Low	1
Woodland and forest - Lowland beech and yew woodland	High	0.33	High	0.33
Woodland and forest - Lowland mixed deciduous woodland	High	0.33	High	0.33
Woodland and forest - Native pine woodlands	High	0.33	High	0.33
Woodland and forest - Other coniferous woodland	Low	1	Low	1
Woodland and forest - Other Scot's pine woodland	Medium	0.67	Medium	0.67
Woodland and forest - Other woodland: broadleaved	Low	1	Low	1
Woodland and forest - Other woodland: mixed	Low	1	Low	1
Woodland and forest - Upland birchwoods	Medium	0.67	Medium	0.67
Woodland and forest - Upland mixed ashwoods	High	0.33	High	0.33
Woodland and forest - Upland oakwood	High	0.33	High	0.33
Woodland and forest - Wet woodland	Medium	0.67	Medium	0.67
Woodland and forest - Wood-pasture and parkland	Very High	0.1	High	0.33
Intertidal sediment - Littoral sand	Medium	0.67	Medium	0.67
Intertidal sediment - Littoral muddy sand	High	0.33	Medium	0.67
Intertidal hard structures - Artificial hard structures	Medium	0.67	Medium	0.67
Intertidal hard structures - Artificial features of hard structures	Medium	0.67	Medium	0.67
Intertidal hard structures - Artificial hard structures with integrated greening of grey	Medium	0.67	Medium	0.67
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	High	0.33	Medium	0.67
Intertidal sediment - Littoral biogenic reefs - Mussels	High	0.33	Medium	0.67
Intertidal sediment - Artificial littoral mud	High	0.33	Medium	0.67
Intertidal sediment - Artificial littoral sand	Medium	0.67	Medium	0.67
Watercourse footprint - Watercourse footprint	Low	1	Low	1
Individual trees - Rural tree	Low	1	Low	1

Spatial multipliers

Strategic Significance

Description	Strategic significance	Multiplier
Formally identified in local strategy	High strategic significance	1.15
Location ecologically desirable but not in local strategy	Medium strategic significance	1.1
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1

Difficulty

Category	Value
Low	1
Medium	0.67
High	0.33
Very High	0.1

Spatial risk

Category	Multiplier
Compensation inside LPA boundary or NCA of impact site	1
Compensation outside LPA or NCA of impact site, but in neighbouring LPA or NCA	0.75
Compensation outside LPA or NCA of impact site and neighbouring LPA or NCA	0.5
This metric is being used by an off-site provider	1
Intertidal habitats - Compensation inside Marine Plan Area of impact site	1
Intertidal habitats - Compensation outside same Marine Plan Area but in neighbouring Marine Plan Area	0.75
Intertidal habitats - Compensation outside Marine Plan Area of impact site and beyond neighbouring Marine Plan Area	0.5

Individual trees

Tree size	HPA Radius (m)	HPA (ha)
Small	3.6	0.0041
Medium	7.2	0.0163
Large	10.8	0.0369
Very large	15.6	0.0766

Return to start

Creation

Habitat Description	Good	Fairly Good	Moderate	Fairly Poor	Poor	Condition Assessment N/A	N/A - Other
Cropland - Arable field margins cultivated annually	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Arable field margins game bird mix	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Arable field margins pollen and nectar	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Arable field margins tussocky	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Cereal crops	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Winter stubble	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Horticulture	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Intensive orchards	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Non-cereal crops	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Temporary grass and clover leys	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Grassland - Traditional orchards	30	25	20	10	5	Not Possible ▲	Not Possible ▲
Grassland - Bracken	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Grassland - Floodplain wetland mosaic and CFGM	20	15	10	8	5	Not Possible ▲	Not Possible ▲
Grassland - Lowland calcareous grassland	20	15	10	8	5	Not Possible ▲	Not Possible ▲
Grassland - Lowland dry acid grassland	30+	25	20	15	10	Not Possible ▲	Not Possible ▲
Grassland - Lowland meadows	15	12	10	8	5	Not Possible ▲	Not Possible ▲
Grassland - Modified grassland	7	5	4	2	1	Not Possible ▲	Not Possible ▲
Grassland - Other lowland acid grassland	15	12	10	5	1	Not Possible ▲	Not Possible ▲
Grassland - Other neutral grassland	10	7	5	3	2	Not Possible ▲	Not Possible ▲
Grassland - Tall herb communities (H6430)	30	25	20	15	10	Not Possible ▲	Not Possible ▲
Grassland - Upland acid grassland	15	12	10	5	1	Not Possible ▲	Not Possible ▲
Grassland - Upland calcareous grassland	25	20	15	12	10	Not Possible ▲	Not Possible ▲
Grassland - Upland hay meadows	20	18	15	12	10	Not Possible ▲	Not Possible ▲
Heathland and shrub - Blackthorn scrub	10	7	5	3	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Bramble scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Heathland and shrub - Gorse scrub	10	7	5	3	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Hawthorn scrub	10	7	5	3	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Hazel scrub	15	12	10	7	5	Not Possible ▲	Not Possible ▲
Heathland and shrub - Willow scrub	15	12	10	7	5	Not Possible ▲	Not Possible ▲
Heathland and shrub - Lowland heathland	30+	25	20	15	10	Not Possible ▲	Not Possible ▲
Heathland and shrub - Mixed scrub	10	7	5	3	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Mountain heaths and willow scrub	30+	30+	25	23	15	Not Possible ▲	Not Possible ▲
Heathland and shrub - Rhododendron scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Heathland and shrub - Dunes with sea buckthorn (H2160)	10	7	5	3	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Other sea buckthorn scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Heathland and shrub - Upland heathland	30	25	20	15	10	Not Possible ▲	Not Possible ▲
Lakes - Aquifer fed naturally fluctuating water bodies	30	20	15	10	1	Not Possible ▲	Not Possible ▲
Lakes - High alkalinity lakes	30	20	10	7	5	Not Possible ▲	Not Possible ▲
Lakes - Low alkalinity lakes	30	20	10	7	5	Not Possible ▲	Not Possible ▲
Lakes - Marl lakes	30	20	10	7	5	Not Possible ▲	Not Possible ▲
Lakes - Moderate alkalinity lakes	30	20	10	7	5	Not Possible ▲	Not Possible ▲
Lakes - Peat lakes	30	20	10	7	5	Not Possible ▲	Not Possible ▲
Lakes - Ponds (priority habitat)	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Lakes - Ponds (non-priority habitat)	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Lakes - Reservoirs	10	7	5	3	1	Not Possible ▲	Not Possible ▲
Lakes - Temporary lakes ponds and pools (H3170)	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Calaminarian grasslands	10	7	5	3	2	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Coastal sand dunes	20	15	10	7	5	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Coastal vegetated shingle	20	15	10	7	5	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Ruderal/Ephemeral	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Tall forbs	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Inland rock outcrop and scree habitats	30+	25	20	15	10	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Limestone pavement	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Maritime cliff and slopes	20	15	10	7	5	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Other inland rock and scree	20	15	10	7	5	Not Possible ▲	Not Possible ▲
Urban - Allotments	1	1	1	1	1	Not Possible ▲	Not Possible ▲
Lakes - Ornamental lake or pond	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Artificial unvegetated, unsealed surface	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Bioswale	3	2	1	1	1	Not Possible ▲	Not Possible ▲
Urban - Intensive green roof	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Built linear features	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Cemeteries and churchyards	20	17	15	12	10	Not Possible ▲	Not Possible ▲
Urban - Developed land; sealed surface	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Other green roof	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Urban - Facade-bound green wall	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Ground based green wall	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Ground level planters	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Urban - Biodiverse green roof	10	8	5	3	1	Not Possible ▲	Not Possible ▲
Urban - Introduced shrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Urban - Open mosaic habitats on previously developed land	10	7	4	2	0	Not Possible ▲	Not Possible ▲
Urban - Rain garden	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Actively worked sand pit quarry or open cast mine	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Individual trees - Urban tree	30+	30+	27	19	10	Not Possible ▲	Not Possible ▲
Urban - Sustainable drainage system	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Unvegetated garden	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Vacant or derelict land	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Bare ground	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Urban - Vegetated garden	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Wetland - Blanket bog	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Wetland - Depressions on peat substrates (H7150)	30+	30+	30	25	15	Not Possible ▲	Not Possible ▲
Wetland - Fens (upland and lowland)	30	25	20	15	10	Not Possible ▲	Not Possible ▲
Wetland - Lowland raised bog	30+	30+	30	20	15	Not Possible ▲	Not Possible ▲
Wetland - Oceanic valley mire[1] (D2.1)	30+	30+	30	20	15	Not Possible ▲	Not Possible ▲
Wetland - Purple moor grass and rush pastures	30	25	20	15	10	Not Possible ▲	Not Possible ▲
Wetland - Reedbeds	12	10	7	5	3	Not Possible ▲	Not Possible ▲
Wetland - Transition mires and quaking bogs (H7140)	30+	30+	30	25	15	Not Possible ▲	Not Possible ▲
Woodland and forest - Felled	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Woodland and forest - Lowland beech and yew woodland	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Lowland mixed deciduous woodland	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Native pine woodlands	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Other coniferous woodland	30+	30+	30	10	5	Not Possible ▲	Not Possible ▲
Woodland and forest - Other Scot's pine woodland	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Other woodland; broadleaved	30+	25	15	7	5	Not Possible ▲	Not Possible ▲
Woodland and forest - Other woodland; mixed	30+	30+	30	10	5	Not Possible ▲	Not Possible ▲
Woodland and forest - Upland birchwoods	30+	30	25	20	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Upland mixed ashwoods	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Upland oakwood	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Woodland and forest - Wet woodland	30+	30	15	10	5	Not Possible ▲	Not Possible ▲
Woodland and forest - Wood-pasture and parkland	30+	30+	30+	25	10	Not Possible ▲	Not Possible ▲
Coastal lagoons - Coastal lagoons	10	8	5	3	1	Not Possible ▲	Not Possible ▲
Rocky shore - High energy littoral rock	10	7	4	2	1	Not Possible ▲	Not Possible ▲
Rocky shore - High energy littoral rock - on peat, clay or chalk	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Rocky shore - Moderate energy littoral rock	13	8	4	2	1	Not Possible ▲	Not Possible ▲
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Rocky shore - Low energy littoral rock	15	10	5	1	1	Not Possible ▲	Not Possible ▲
Rocky shore - Low energy littoral rock - on peat, clay or chalk	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Rocky shore - Features of littoral rock	13	8	4	2	1	Not Possible ▲	Not Possible ▲
Rocky shore - Features of littoral rock - on peat, clay or chalk	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral coarse sediment	3	2	1	1	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral mud	6	4	3	2	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral mixed sediments	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Coastal saltmarsh - Saltmarshes and saline reedbeds	15	10	7	3	1	Not Possible ▲	Not Possible ▲
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	15	10	7	3	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral seagrass	20	15	10	5	2	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral seagrass on peat, clay or chalk	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral biogenic reefs - Mussels	15	10	5	3	3	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral biogenic reefs - Sabellaria	15	10	5	3	3	Not Possible ▲	Not Possible ▲
Intertidal sediment - Features of littoral sediment	10	7	5	3	3	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral coarse sediment	3	2	1	1	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral mud	6	4	3	2	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral sand	4	2	1	1	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral muddy sand	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral mixed sediments	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral seagrass	20	15	10	5	2	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral biogenic reefs	15	10	5	3	3	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral sand	4	2	1	1	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral muddy sand	5	4	3	2	1	Not Possible ▲	Not Possible ▲
Intertidal hard structures - Artificial hard structures	15	10	5	2	1	Not Possible ▲	Not Possible ▲
Intertidal hard structures - Artificial features of hard structures	13	8	4	2	1	Not Possible ▲	Not Possible ▲
Intertidal hard structures - Artificial hard structures with integrated greening of grey infrastructure (IGG	13	8	4	2	1	Not Possible ▲	Not Possible ▲
Watercourse footprint - Watercourse footprint	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Individual trees - Rural tree	30+	30+	27	19	10	Not Possible ▲	Not Possible ▲

Return to start

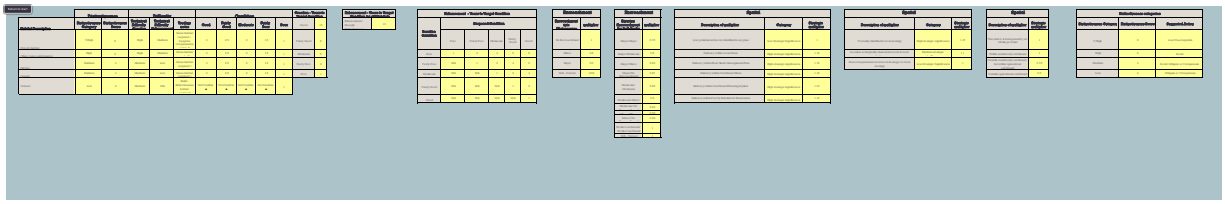
Start condition	Lower Distinctiveness Habitat	Lower Distinctiveness Habitat	Lower Distinctiveness Habitat	Lower Distinctiveness Habitat	Lower Distinctiveness Habitat	Lower Distinctiveness Habitat	Lower Distinctiveness Habitat	Condition Assessment N/A	Condition Assessment N/A	Condition Assessment N/A	Condition Assessment N/A	Poor	Poor	Poor	Poor	Fairly Poor	Fairly Poor	Fairly Poor	Moderate	Moderate	Fairly Good	Good
Target condition	N/A - Other	Condition Assessment N/A	Poor	Fairly Poor	Moderate	Fairly Good	Good	Fairly Poor	Moderate	Fairly Good	Good	Fairly Poor	Moderate	Fairly Good	Good	Moderate	Fairly Good	Good	Fairly Good	Good	Good	Good
Habitat	**Lower Distinctiveness Habitat - N/A - Other**	**Lower Distinctiveness Habitat - Condition Assessment N/A**	**Lower Distinctiveness Habitat - Poor**	**Lower Distinctiveness Habitat - Fairly Poor**	**Lower Distinctiveness Habitat - Moderate**	**Lower Distinctiveness Habitat - Fairly Good**	**Lower Distinctiveness Habitat - Good**	**Condition Assessment N/A - Fairly Poor**	**Condition Assessment N/A - Moderate**	**Condition Assessment N/A - Fairly Good**	**Condition Assessment N/A - Good**	**Poor - Fairly Poor**	**Poor - Moderate**	**Poor - Fairly Good**	**Poor - Good**	**Fairly Poor - Moderate**	**Fairly Poor - Fairly Good**	**Fairly Poor - Good**	**Moderate - Fairly Good**	**Moderate - Good**	**Fairly Good - Good**	**Good - Good**
Cropland - Arable field margins cultivated annually	Not Possible ▲	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Arable field margins game bird mix	Not Possible ▲	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Arable field margins pollen and nectar	Not Possible ▲	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Arable field margins tussocky	Not Possible ▲	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Cereal crops	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Winter stubble	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Horticulture	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Intensive orchards	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Non-cereal crops	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Cropland - Temporary grass and clover leys	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Grassland - Traditional orchards	Not Possible ▲	Not Possible ▲	5	10	20	25	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	15	20	25	10	15	20	5	10	5	Not Possible ▲
Grassland - Bracken	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Grassland - Floodplain wetland mosaic and CFGM	Not Possible ▲	Not Possible ▲	5	8	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	8	10	12	15	2	4	7	2	4	3	Not Possible ▲
Grassland - Lowland calcareous grassland	Not Possible ▲	Not Possible ▲	10	15	20	25	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	5	10	15	5	10	5	Not Possible ▲
Grassland - Lowland dry acid grassland	Not Possible ▲	Not Possible ▲	10	15	20	25	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	15	20	30+	8	15	25	10	20	10	Not Possible ▲
Grassland - Lowland meadows	Not Possible ▲	Not Possible ▲	5	8	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	4	8	11	15	4	8	11	4	8	4	Not Possible ▲
Grassland - Modified grassland	Not Possible ▲	Not Possible ▲	1	5	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	12	15	8	10	12	8	10	8	Not Possible ▲
Grassland - Other lowland acid grassland	Not Possible ▲	Not Possible ▲	1	5	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	12	15	8	10	12	8	10	8	Not Possible ▲
Grassland - Other neutral grassland	Not Possible ▲	Not Possible ▲	1	5	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	12	15	8	10	12	8	10	8	Not Possible ▲
Grassland - Tall herb communities (H6430)	Not Possible ▲	Not Possible ▲	10	15	20	25	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30	10	10	15	5	10	5	Not Possible ▲
Grassland - Upland acid grassland	Not Possible ▲	Not Possible ▲	1	5	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	12	15	8	10	12	8	10	8	Not Possible ▲
Grassland - Upland calcareous grassland	Not Possible ▲	Not Possible ▲	10	12	15	20	25	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	15	18	20	10	15	18	10	10	10	Not Possible ▲
Grassland - Upland hay meadows	Not Possible ▲	Not Possible ▲	10	12	15	18	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	15	18	20	10	15	18	10	15	10	Not Possible ▲
Heathland and shrub - Blackthorn scrub	Not Possible ▲	Not Possible ▲	1	3	5	7	10	1	5	7	10	1	5	7	10	3	5	3	2	3	2	Not Possible ▲
Heathland and shrub - Bramble scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Heathland and shrub - Gorse scrub	Not Possible ▲	Not Possible ▲	1	3	5	7	10	1	5	7	10	1	5	7	10	3	5	7	2	3	2	Not Possible ▲
Heathland and shrub - Hawthorn scrub	Not Possible ▲	Not Possible ▲	1	3	5	7	10	1	5	7	10	1	5	7	10	3	5	7	2	3	2	Not Possible ▲
Heathland and shrub - Hazel scrub	Not Possible ▲	Not Possible ▲	5	7	10	12	15	5	7	12	15	5	7	12	15	5	8	12	5	7	5	Not Possible ▲
Heathland and shrub - Willow scrub	Not Possible ▲	Not Possible ▲	5	7	10	12	15	5	7	12	15	5	7	12	15	5	8	12	5	7	5	Not Possible ▲
Heathland and shrub - Lowland heathland	Not Possible ▲	Not Possible ▲	10	15	20	25	30+	5	10	15	25	5	10	15	25	5	10	20	5	15	10	Not Possible ▲
Heathland and shrub - Mixed scrub	Not Possible ▲	Not Possible ▲	1	3	5	7	10	1	5	7	10	1	5	7	10	3	5	7	2	3	2	Not Possible ▲
Heathland and shrub - Mountain heaths and willow scrub	Not Possible ▲	Not Possible ▲	15	23	25	30+	30+	20	30+	30+	30+	20	30+	30+	30+	20	30+	30+	20	30+	20	Not Possible ▲
Heathland and shrub - Rhododendron scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Heathland and shrub - Dunes with sea buckthorn (H2160)	Not Possible ▲	Not Possible ▲	5	7	10	12	15	5	7	10	12	5	7	10	12	5	7	10	5	7	5	Not Possible ▲
Heathland and shrub - Other sea buckthorn scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Heathland and shrub - Upland heathland	Not Possible ▲	Not Possible ▲	10	15	20	25	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	30	30+	10	20	30	10	20	10	Not Possible ▲
Lakes - Aquifer fed naturally fluctuating water bodies	Not Possible ▲	Not Possible ▲	1	10	15	20	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	30	5	15	25	5	20	5	Not Possible ▲
Lakes - High alkalinity lakes	Not Possible ▲	Not Possible ▲	2	3	5	7	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	30	5	15	25	10	20	10	Not Possible ▲
Lakes - Low alkalinity lakes	Not Possible ▲	Not Possible ▲	5	10	15	20	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	5	10	15	5	10	5	Not Possible ▲
Lakes - Marl lakes	Not Possible ▲	Not Possible ▲	5	7	10	15	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	30	5	15	25	10	20	10	Not Possible ▲
Lakes - Moderate alkalinity lakes	Not Possible ▲	Not Possible ▲	5	7	10	15	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	30	5	15	25	10	20	10	Not Possible ▲
Lakes - Peat lakes	Not Possible ▲	Not Possible ▲	5	10	15	20	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	30	5	15	25	10	20	10	Not Possible ▲
Lakes - Ponds (priority habitat)	Not Possible ▲	Not Possible ▲	2	3	5	7	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Lakes - Ponds (non-priority habitat)	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Lakes - Reservoirs	Not Possible ▲	Not Possible ▲	1	3	5	7	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	30	5	15	25	10	20	10	Not Possible ▲
Lakes - Temporary lakes ponds and pools (H3170)	Not Possible ▲	Not Possible ▲	2	3	5	7	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Sparsely vegetated land - Calaminarian grasslands	Not Possible ▲	Not Possible ▲	2	3	5	7	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	3	5	8	1	4	7	2	5	3	Not Possible ▲
Sparsely vegetated land - Coastal sand dunes	Not Possible ▲	Not Possible ▲	5	7	10	15	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	8	15	20	5	10	18	7	12	8	Not Possible ▲
Sparsely vegetated land - Coastal vegetated shingle	Not Possible ▲	Not Possible ▲	5	7	10	15	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	8	15	20	5	10	18	7	12	8	Not Possible ▲
Sparsely vegetated land - Ruderal/Ephemeral	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Sparsely vegetated land - Tall forbs	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Sparsely vegetated land - Inland rock outcrop and scree habitats	Not Possible ▲	Not Possible ▲	10	15	20	25	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30+	15	25	27	15	20	15	Not Possible ▲
Sparsely vegetated land - Limestone pavement	Not Possible ▲	Not Possible ▲	30+	30+	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	5	10	15	5	10	5	Not Possible ▲
Sparsely vegetated land - Maritime cliff and slopes	Not Possible ▲	Not Possible ▲	10	15	20	25	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	8	15	20	5	10	18	7	12	8	Not Possible ▲
Sparsely vegetated land - Other inland rock and scree	Not Possible ▲	Not Possible ▲	3	5	10	15	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	5	10	15	5	10	5	Not Possible ▲
Urban - Allotments	Not Possible ▲	Not Possible ▲	1	1	1	1	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	1	1	1	1	1	1	1	1	1	Not Possible ▲
Lakes - Ornamental lake or pond	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Urban - Artificial unvegetated, unsealed surface	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Bioswale	Not Possible ▲	Not Possible ▲	1	1	1	2	3	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	2	3	1	2	3	2	2	2	Not Possible ▲
Urban - Intensive green roof	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Urban - Built linear features	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Cemeteries and churchyards	Not Possible ▲	Not Possible ▲	10	12	15	17	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	10	15	20	10	15	5	Not Possible ▲
Urban - Developed land; sealed surface	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Other green roof	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Facade-bound green wall	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Urban - Ground based green wall	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Urban - Ground level planters	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Biodiverse green roof	Not Possible ▲	Not Possible ▲	1	3	5	8	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	3	5	8	10	3	8	8	3	5	2	Not Possible ▲
Urban - Introduced shrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Open mosaic habitats on previously developed land	Not Possible ▲	Not Possible ▲	0	2	4	7	10	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	7	10	2	5	8	3	4	3	Not Possible ▲
Urban - Rain garden	Not Possible ▲	Not Possible ▲	1	1	1	1	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	1	1	1	1	1	1	1	1	1	Not Possible ▲
Urban - Actively worked sand pit quarry or open cast mine	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Individual trees - Urban tree	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	8	16	24	30+	8	16	24	8	16	8	Not Possible ▲
Urban - Sustainable drainage system	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Urban - Unvegetated garden	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Urban - Vacant or derelict land	Not Possible ▲	Not Possible ▲	1	1	1	1	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	1	1	1	1	1	1	1	1	1	Not Possible ▲
Urban - Bare ground	Not Possible ▲	Not Possible ▲	1	1	1	1	1	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	1	1	1	1	1	1	1	1	1	Not Possible ▲
Urban - Vegetated garden	Not Possible ▲	Not Possible ▲	1	2	3	4	5	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	3	1	2	1	Not Possible ▲
Wetland - Blanket bog	Not Possible ▲	Not Possible ▲	15	25	30	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	30+	30+	10	30+	30+	30	30+	30	Not Possible ▲
Wetland - Depressions on peat substrates (H7150)	Not Possible ▲	Not Possible ▲	15	25	30	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30	10	20	25	10	20	10	Not Possible ▲
Wetland - Fens (upland and lowland)	Not Possible ▲	Not Possible ▲	10	12	15	25	30	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	12	15	18	10	12	15	10	12	10	Not Possible ▲
Wetland - Lowland raised bog	Not Possible ▲	Not Possible ▲	15	20	30	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30	10	20	20	10	15	10	Not Possible ▲
Wetland - Oceanic valley mire[1] (D2.1)	Not Possible ▲	Not Possible ▲	15	20	30	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30	10	20	20	10	15	10	Not Possible ▲
Wetland - Purple moor grass and rush pastures	Not Possible ▲	Not Possible ▲	10	12	15	17	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	10	15	20	10	15	20	10	15	10	Not Possible ▲
Wetland - Reedbeds	Not Possible ▲	Not Possible ▲	5	7	10	12	15	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	7	10	12	5	7	10	5	7	5	Not Possible ▲
Wetland - Transition mires and quaking bogs (H7140)	Not Possible ▲	Not Possible ▲	15	25	30	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30	10	20	20	10	15	10	Not Possible ▲
Woodland and forest - Felled	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Woodland and forest - Lowland beech and yew woodland	Not Possible ▲	Not Possible ▲	10	25	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	25	30+	30+	30+	30+	30+	30+	30+	30+	30+	Not Possible ▲
Woodland and forest - Lowland mixed deciduous woodland	Not Possible ▲	Not Possible ▲	10	25	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	20	25	30+	10	20	25	10	20	10	Not Possible ▲
Woodland and forest - Native pine woodlands	Not Possible ▲	Not Possible ▲	25	30	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	15	20	30+	15	20	25	10	15	10	Not Possible ▲
Woodland and forest - Other coniferous woodland	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	25	30+	30+	20	30+	30+	30+	30+	30+	Not Possible ▲
Woodland and forest - Other Scot's pine woodland	Not Possible ▲	Not Possible ▲	20	25	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	15	20	30+	15	20	25	10	15	10	Not Possible ▲
Woodland and forest - Other woodland; broadleaved	Not Possible ▲	Not Possible ▲	5	10	15	20	25	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	5	10	15	5	10	5	Not Possible ▲
Woodland and forest - Other woodland; mixed	Not Possible ▲	Not Possible ▲	5	10	15	20	25	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	15	20	5	10	15	5	10	5	Not Possible ▲
Woodland and forest - Upland birchwoods	Not Possible ▲	Not Possible ▲	10	20	25	30	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	15	20	30+	15	20	25	10	15	10	Not Possible ▲
Woodland and forest - Upland mixed ashwoods	Not Possible ▲	Not Possible ▲	10	25	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	10	15	20	30+	15	20	25	10	15	10	Not Possible ▲
Woodland and forest - Upland oakwood	Not Possible ▲	Not Possible ▲	10	25	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	25	30+	30+	30+	30+	30+	30+	30+	30+	30+	Not Possible ▲
Woodland and forest - Wet woodland	Not Possible ▲	Not Possible ▲	10	20	25	30	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	5	10	25	30+	5	20	30+	15	30+	30	Not Possible ▲
Woodland and forest - Wood-pasture and parkland	Not Possible ▲	Not Possible ▲	10	25	30+	30+	30+	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	25	30+	30+	30+	30+	30+	30+	30+	30+	30+	Not Possible ▲
Coastal lagoons - Coastal lagoons	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	4	8	12	3	7	11	4	8	4	Not Possible ▲
Rocky shore - High energy littoral rock	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	10	2	4	8	2	6	4	Not Possible ▲
Rocky shore - High energy littoral rock - on peat, clay or chalk	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	10	2	4	8	2	6	4	Not Possible ▲
Rocky shore - Moderate energy littoral rock	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	11	2	4	9	2	7	5	Not Possible ▲
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	11	2	4	9	2	7	5	Not Possible ▲
Rocky shore - Low energy littoral rock	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	12	2	4	10	2	8	6	Not Possible ▲
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	12	2	4	10	2	8	6	Not Possible ▲
Rocky shore - Features of littoral rock	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	11	2	4	9	2	7	5	Not Possible ▲
Rocky shore - Features of littoral rock - on peat, clay or chalk	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	11	2	4	9	2	7	5	Not Possible ▲
Intertidal sediment - Littoral coarse sediment	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	4	1	2	3	1	2	1	Not Possible ▲
Intertidal sediment - Littoral mud	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Intertidal sediment - Littoral mixed sediments	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	4	1	2	3	1	2	1	Not Possible ▲
Coastal saltmarsh - Saltmarshes and saline reedbeds	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	6	10	20	4	8	18	4	14	10	Not Possible ▲
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	6	10	20	4	8	18	4	14	10	Not Possible ▲
Intertidal sediment - Littoral seagrass	Not Possible ▲	Not Possible ▲	2	5	10	15	20	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	3	13	23	30+	10	20	30	10	20	10	Not Possible ▲
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	3	13	23	30+	10	20	30	10	20	10	Not Possible ▲
Intertidal sediment - Littoral biogenic reefs - Mussels	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	7	10	2	3	8	3	6	3	Not Possible ▲
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	7	10	2	3	8	3	6	3	Not Possible ▲
Intertidal sediment - Features of littoral sediment	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	5	1	2	4	1	3	2	Not Possible ▲
Intertidal sediment - Artificial littoral coarse sediment	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	4	1	2	3	1	2	1	Not Possible ▲
Intertidal sediment - Artificial littoral mud	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Intertidal sediment - Artificial littoral sand	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	3	4	6	1	2	4	1	3	2	Not Possible ▲
Intertidal sediment - Artificial littoral muddy sand	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Intertidal sediment - Artificial littoral mixed sediments	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	2	3	4	1	2	3	1	2	1	Not Possible ▲
Intertidal sediment - Artificial littoral seagrass	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	3	13	23	30+	10	20	30	10	20	10	Not Possible ▲
Intertidal sediment - Artificial littoral biogenic reefs	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	7	10	2	3	8	3	6	3	Not Possible ▲
Intertidal sediment - Littoral sand	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	3	4	6	1	2	4	1	3	2	Not Possible ▲
Intertidal sediment - Littoral muddy sand	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	8	2	4	6	2	4	2	Not Possible ▲
Intertidal hard structures - Artificial hard structures	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	12	2	4	10	2	8	6	Not Possible ▲
Intertidal hard structures - Artificial features of hard structures	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	11	2	4	9	2	7	5	Not Possible ▲
Intertidal hard structures - Artificial hard structures with integrated greening of grey infrastructure	Not Possible ▲	Not Possible ▲	1	2	4	8	13	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	2	4	6	11	2	4	9	2	7	5	Not Possible ▲
Watercourse footprint - Watercourse footprint	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Individual trees - Rural tree	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	8	16	24	30+	8	16	24	8	16	8	Not Possible ▲

Return to start

Habitat Description	Disturbance: Disturbance Category	Disturbance: Disturbance Score	Creation – Years to Target Condition: Poor	Creation – Years to Target Condition: Moderate	Creation – Years to Target Condition: Good	Enhancement Through Condition – Years to Target Condition: Poor – Good	Enhancement Through Condition – Years to Target Condition: Moderate – Good	Enhancement Through Disturbance – Years to Target Condition: Low (Any habitat type can be enhanced with low disturbance)	Enhancement Through Disturbance – Years to Target Condition: Medium (Any habitat type can be enhanced with medium disturbance)	Enhancement Through Disturbance – Years to Target Condition: High (Any habitat type can be enhanced with high disturbance)	Enhancement Through Disturbance – Years to Target Condition: Very High (Any habitat type can be enhanced with very high disturbance)	Enhancement Through Disturbance – Years to Target Condition: Extreme (Any habitat type can be enhanced with extreme disturbance)	Difficulty: Technical Difficulty: Creation	Difficulty: Technical Difficulty: Enhancement	Supported Action
Species-rich native hedgerow with trees – associated with bank or ditch	V.High	9	1	15	40	5	30	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Lilac-for-life
Species-rich native hedgerow with trees	High	6	1	15	30	6	30	4	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Lilac-for-life w/ beetle
Species-rich native hedgerow – associated with bank or ditch	High	6	1	5	15	5	5	5	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Lilac-for-life w/ beetle
Native hedgerow with trees – associated with bank or ditch	High	6	1	15	30	6	30	5	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Lilac-for-life w/ beetle
Species-rich native hedgerow	Medium	4	1	5	15	5	6	4	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Native hedgerow – associated with bank or ditch	Medium	4	1	5	15	5	6	4	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Native hedgerow with trees	Medium	4	1	15	30	6	30	4	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Ecologically valuable line of trees	Medium	4	5	20	50+	20	30	10	5	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Ecologically valuable line of trees – associated with bank or ditch	Medium	6	5	20	50+	20	30	10	5	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Native hedgerow	Low	2	1	5	15	5	5	5	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Line of trees	Low	2	5	20	50+	20	30	10	5	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Line of trees – associated with bank or ditch	Low	3	5	20	50+	20	30	10	5	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles
Orchardss and ornamental hedgerow	V.Low	1	1	Very possible ▲	Very possible ▲	Very possible ▲	Very possible ▲	Very possible ▲	1	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low ▲	Low	Low	Cross-disturbance based on beetles

Condition	
Condition Category	Condition Score
Poor	1
Moderate	2
Good	3

Enhancement through Disturbance	Post Development Hedge Type												
Baseline Hedge Type	Species-rich native hedgerow with trees – associated with bank or ditch	Species-rich native hedgerow with trees	Species-rich native hedgerow – associated with bank or ditch	Native hedgerow with trees – associated with bank or ditch	Species-rich native hedgerow	Native hedgerow – associated with bank or ditch	Native hedgerow with trees	Ecologically valuable line of trees	Ecologically valuable line of trees – associated with bank or ditch	Native hedgerow	Line of trees	Line of trees – associated with bank or ditch	Non-native and ornamental hedgerow
Species-rich native hedgerow with trees – associated with bank or ditch	High – V.High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Species-rich native hedgerow with trees	High – V.High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Species-rich native hedgerow – associated with bank or ditch	High – V.High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Native hedgerow with trees – associated with bank or ditch	High – V.High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Species-rich native hedgerow	Medium – High	Medium – High	Medium – High	Medium – High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Native hedgerow – associated with bank or ditch	Medium – High	Medium – High	Medium – High	Medium – High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Native hedgerow with trees	Medium – High	Medium – High	Medium – High	Medium – High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Ecologically valuable line of trees	Medium – High	Medium – High	Medium – High	Medium – High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Ecologically valuable line of trees – associated with bank or ditch	Medium – High	Medium – High	Medium – High	Medium – High	Low – High	Low – High	Low – High	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲
Native hedgerow	Low – V.High	Low – High	Low – High	Low – High	Low – Medium	Low – Medium	Low – Medium	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	Low – Low	From Tending Down ▲	From Tending Down ▲
Line of trees	Low – V.High	Low – High	Low – High	Low – High	Low – Medium	Low – Medium	Low – Medium	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	Low – Low	From Tending Down ▲	From Tending Down ▲
Line of trees – associated with bank or ditch	Low – V.High	Low – High	Low – High	Low – High	Low – Medium	Low – Medium	Low – Medium	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	Low – Low	From Tending Down ▲	From Tending Down ▲
Orchardss and ornamental hedgerow	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	From Tending Down ▲	V.Low – V.Low



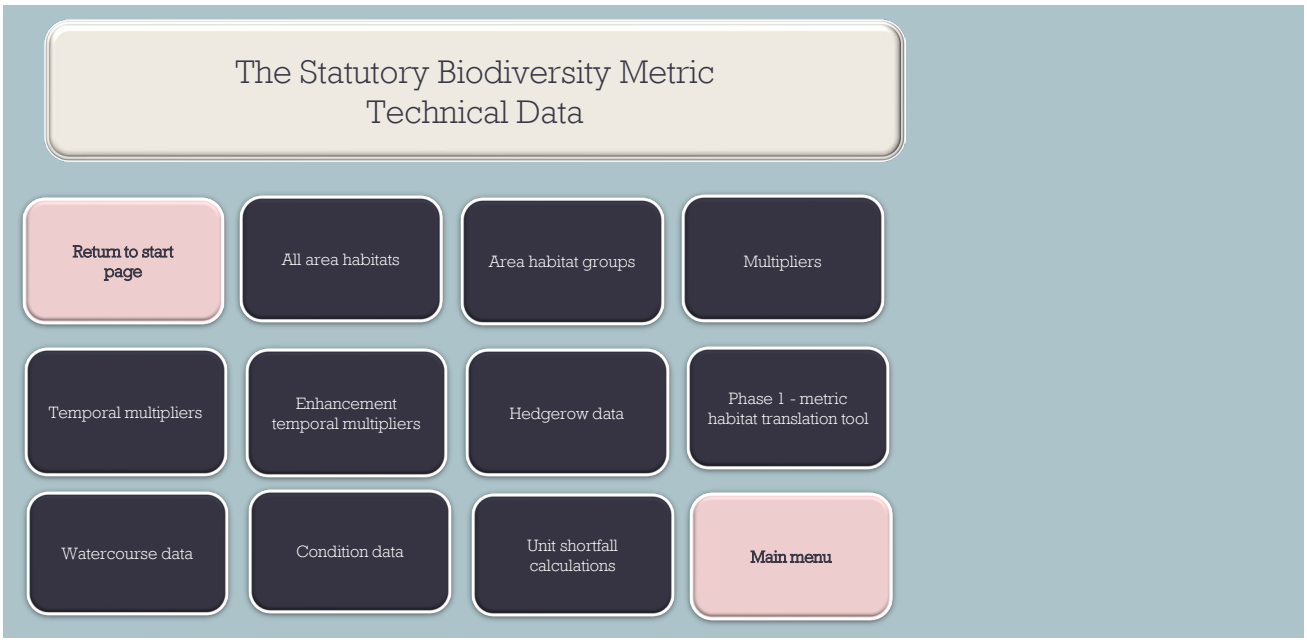
Return to start

Habitat Description	Condition						
	Good	Fairly Good	Moderate	Fairly Poor	Poor	Condition Assessment N/A	N/A - Other
Cropland - Arable field margins cultivated annually	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Arable field margins game bird mix	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Arable field margins pollen and nectar	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Arable field margins tussocky	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Cereal crops	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Winter stubble	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Horticulture	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Intensive orchards	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Non-cereal crops	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Cropland - Temporary grass and clover leys	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Grassland - Traditional orchards	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Bracken	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Grassland - Floodplain wetland mosaic and CFGM	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Lowland calcareous grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Lowland dry acid grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Lowland meadows	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Modified grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Other lowland acid grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Other neutral grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Tall herb communities (H6430)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Upland acid grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Upland calcareous grassland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Grassland - Upland hay meadows	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Blackthorn scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Bramble scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Heathland and shrub - Gorse scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Hawthorn scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Hazel scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Lowland heathland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Mixed scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Mountain heaths and willow scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Rhododendron scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Heathland and shrub - Dunes with sea buckthorn (H2160)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Other sea buckthorn scrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Heathland and shrub - Willow scrub	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Heathland and shrub - Upland heathland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Aquifer fed naturally fluctuating water bodies	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - High alkalinity lakes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Low alkalinity lakes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Marl lakes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Moderate alkalinity lakes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Peat lakes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Ponds (priority habitat)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Ponds (non-priority habitat)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Reservoirs	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Temporary lakes ponds and pools (H3170)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Calaminarian grasslands	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Coastal sand dunes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Coastal vegetated shingle	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Ruderal/Ephemeral	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Tall forbs	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Inland rock outcrop and scree habitats	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Limestone pavement	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Maritime cliff and slopes	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Sparsely vegetated land - Other inland rock and scree	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Allotments	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Lakes - Ornamental lake or pond	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Artificial unvegetated, unsealed surface	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Bioswale	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Intensive green roof	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Built linear features	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Cemeteries and churchyards	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Developed land; sealed surface	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Other green roof	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Urban - Facade-bound green wall	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Ground based green wall	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Ground level planters	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Urban - Biodiverse green roof	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Introduced shrub	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Urban - Open mosaic habitats on previously developed land	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Rain garden	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Actively worked sand pit quarry or open cast mine	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Individual trees - Urban tree	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Sustainable drainage system	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Unvegetated garden	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Urban - Vacant or derelict land	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Bare ground	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Urban - Vegetated garden	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	1	Not Possible ▲
Wetland - Blanket bog	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Depressions on peat substrates (H7150)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Fens (upland and lowland)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Lowland raised bog	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Oceanic valley mire[1] (D2.1)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Purple moor grass and rush pastures	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Reedbeds	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Wetland - Transition mires and quaking bogs (H7140)	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Felled	3	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲
Woodland and forest - Lowland beech and yew woodland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Lowland mixed deciduous woodland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Native pine woodlands	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Other coniferous woodland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Other Scot's pine woodland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Other woodland; broadleaved	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Other woodland; mixed	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Upland birchwoods	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Upland mixed ashwoods	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Upland oakwood	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Wet woodland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Woodland and forest - Wood-pasture and parkland	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Coastal lagoons - Coastal lagoons	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - High energy littoral rock	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - High energy littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - Moderate energy littoral rock	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - Low energy littoral rock	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - Low energy littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - Features of littoral rock	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Rocky shore - Features of littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral coarse sediment	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral mud	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral mixed sediments	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Coastal saltmarsh - Saltmarshes and saline reedbeds	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral seagrass	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral seagrass on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral biogenic reefs - Mussels	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral biogenic reefs - Sabellaria	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Features of littoral sediment	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral coarse sediment	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral mud	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral sand	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral muddy sand	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral mixed sediments	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral seagrass	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Artificial littoral biogenic reefs	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral sand	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal sediment - Littoral muddy sand	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal hard structures - Artificial hard structures	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal hard structures - Artificial features of hard structures	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Intertidal hard structures - Artificial hard structures with integrated greening of grey infrastructure (IGGI	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲
Watercourse footprint - Watercourse footprint	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	Not Possible ▲	0
Individual trees - Rural tree	3	2.5	2	1.5	1	Not Possible ▲	Not Possible ▲

Return to start

This tool is intended to be used for historic data. Any suggested translation between a phase 1 habitat and metric habitat should not be considered a rule - there may be circumstances where a more appropriate metric habitat may be chosen when ecological expertise is applied.

Phase 1 Habitat	Metric habitat	Distinctiveness band
Woodland	Woodland and forest - Other woodland; mixed	Medium
Broadleaved woodland	Woodland and forest - Other woodland; broadleaved	Medium
Semi-natural broadleaved woodland	Woodland and forest - Lowland mixed deciduous woodland	High
Plantation broadleaved woodland	Woodland and forest - Other woodland; broadleaved	Medium
Coniferous woodland	Woodland and forest - Other coniferous woodland	Low
Semi-natural coniferous woodland	Woodland and forest - Native pine woodlands	High
Plantation coniferous woodland	Woodland and forest - Other coniferous woodland	Low
Mixed woodland	Woodland and forest - Other woodland; mixed	Medium
Semi-natural mixed woodland	Woodland and forest - Lowland mixed deciduous woodland	High
Plantation mixed woodland	Woodland and forest - Other woodland; mixed	Medium
Scrub	Heathland and shrub - Mixed scrub	Medium
Dense / continuous scrub	Heathland and shrub - Mixed scrub	Medium
Scattered scrub	Heathland and shrub - Mixed scrub	Medium
Parkland / scattered trees	Woodland and forest - Wood-pasture and parkland	V.High
Broadleaved parkland / scattered trees	Woodland and forest - Wood-pasture and parkland	V.High
Coniferous parkland / scattered trees	Woodland and forest - Other coniferous woodland	Low
Mixed parkland / scattered trees	Woodland and forest - Wood-pasture and parkland	V.High
Scattered trees	Individual trees - Urban tree	Medium
Scattered trees	Individual trees - Rural tree	Medium
Recently-felled woodland	Woodland and forest - Felled	High
Broadleaved recently felled woodland	Woodland and forest - Felled	High
Coniferous recently felled woodland	Woodland and forest - Felled	High
Mixed recently felled woodland	Woodland and forest - Felled	High
Acid grassland	Grassland - Other lowland acid grassland	Medium
Acid grassland	Grassland - Upland acid grassland	Medium
Unimproved acid grassland	Grassland - Lowland dry acid grassland	V.High
Unimproved acid grassland	Grassland - Upland hay meadows	V.High
Semi-improved acid grassland (Good quality)	Grassland - Upland acid grassland	Medium
Semi-improved acid grassland (Good quality)	Grassland - Other lowland acid grassland	Medium
Semi-improved acid grassland (Poor quality)	Grassland - Modified grassland	Low
Neutral grassland	Grassland - Other neutral grassland	Medium
Unimproved neutral grassland	Grassland - Lowland meadows	V.High
Semi-improved neutral grassland (Good quality)	Grassland - Other neutral grassland	Medium
Semi-improved neutral grassland (Poor quality)	Grassland - Modified grassland	Low
Calcareous grassland	Grassland - Upland calcareous grassland	High
Calcareous grassland	Grassland - Lowland calcareous grassland	High
Unimproved calcareous grassland	Grassland - Lowland calcareous grassland	High
Unimproved calcareous grassland	Grassland - Upland calcareous grassland	High
Semi-improved calcareous grassland (Good quality)	Grassland - Upland calcareous grassland	High
Semi-improved calcareous grassland (Good quality)	Grassland - Lowland calcareous grassland	High
Semi-improved calcareous grassland (Poor quality)	Grassland - Modified grassland	Low
Improved grassland	Grassland - Modified grassland	Low
Marsh/marshy grassland	Wetland - Purple moor grass and rush pastures	V.High
Marsh/marshy grassland	Grassland - Other neutral grassland	Medium
Marsh/marshy grassland	Grassland - Modified grassland	Low
Poor semi-improved grassland	Grassland - Modified grassland	Low
Strandline vegetation coastland	Sparsely vegetated land - Coastal vegetated shingle	High
Sand dune	Sparsely vegetated land - Coastal sand dunes	High
Dune slack sand dune coastland	Sparsely vegetated land - Coastal sand dunes	High
Dune grassland sand dune coastland	Sparsely vegetated land - Coastal sand dunes	High
Dune heath sand dune coastland	Sparsely vegetated land - Coastal sand dunes	High
Dune scrub sand dune coastland	Sparsely vegetated land - Coastal sand dunes	High
Open dune sand dune coastland	Sparsely vegetated land - Coastal sand dunes	High
Maritime cliff coastland	Sparsely vegetated land - Maritime cliff and slopes	High
Hard maritime cliff coastland	Sparsely vegetated land - Maritime cliff and slopes	High
Soft maritime cliff	Sparsely vegetated land - Maritime cliff and slopes	High
Crevice/ledge vegetation	Sparsely vegetated land - Maritime cliff and slopes	High
Crevice/ledge vegetation	Grassland - Tall herb communities	High
Coastal grassland	Sparsely vegetated land - Maritime cliff and slopes	High
Coastal grassland	Grassland - Lowland meadows	V.High
Coastal grassland	Grassland - Lowland dry acid grassland	V.High
Coastal grassland	Grassland - Other lowland acid grassland	Medium
Coastal heathland	Sparsely vegetated land - Maritime cliff and slopes	High
Coastal heathland	Heathland and shrub - Lowland heathland	High
Standing open water	Lakes - Aquifer fed naturally fluctuating water bodies	V.High
Standing open water	Ditches	Medium
Standing open water	Lakes - High alkalinity lakes	High
Standing open water	Lakes - Low alkalinity lakes	High
Standing open water	Lakes - Marl lakes	High
Standing open water	Lakes - Moderate alkalinity lakes	High
Standing open water	Lakes - Peat Lakes	High
Standing open water	Lakes - Ponds (priority habitat)	High
Standing open water	Lakes - Ponds (non-priority habitat)	Medium
Standing open water	Lakes - Reservoirs	Medium
Standing open water	Lakes - Temporary lakes, ponds and pools	High
Dry dwarf shrub heath	Heathland and shrub - Lowland heathland	High
Dry dwarf shrub heath	Heathland and shrub - Upland heathland	High
Acidic dry dwarf shrub heath	Heathland and shrub - Lowland heathland	High
Acidic dry dwarf shrub heath	Heathland and shrub - Upland heathland	High
Basic dry dwarf shrub heath	Heathland and shrub - Lowland heathland	High
Basic dry dwarf shrub heath	Heathland and shrub - Upland heathland	High
Wet dwarf shrub heath	Heathland and shrub - Lowland heathland	High
Wet dwarf shrub heath	Heathland and shrub - Upland heathland	High
Lichen / bryophyte heath	Heathland and shrub - Lowland heathland	High
Lichen / bryophyte heath	Heathland and shrub - Upland heathland	High
Montane heath / dwarf herb	Heathland and shrub - Mountain heaths and willow scrub	V.High
Dry heath / acidic grass mosaic	Heathland and shrub - Lowland heathland	High
Wet heath / acidic grass mosaic	Heathland and shrub - Lowland heathland	High
Dry heath / acidic grass mosaic	Heathland and shrub - Upland heathland	High
Wet heath / acidic grass mosaic	Heathland and shrub - Upland heathland	High
Bracken	Grassland - Bracken	Low
Continuous bracken	Grassland - Bracken	Low
Scattered bracken	Grassland - Bracken	Low
Other tall herb or fern (Good quality)	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Other tall herb or fern	Grassland - Bracken	Low
Tall ruderal	Sparsely vegetated land - Ruderal/ephemeral	Low
Tall ruderal	Sparsely vegetated land - Tall forbs	Low
Non-ruderal	Sparsely vegetated land - Ruderal/ephemeral	Low
Bog	Wetland - Lowland raised bog	V.High
Sphagnum bog	Wetland - Lowland raised bog	V.High
Blanket bog	Wetland - Blanket bog	V.High
Raised bog	Wetland - Lowland raised bog	V.High
Wet modified bog	Wetland - Transition mires and quaking bogs (H7140)	V.High
Dry modified bog	Wetland - Blanket bog	V.High
Dry modified bog	Wetland - Lowland raised bog	V.High
Flush and spring	Wetland - Fens (upland and lowland)	V.High
Acid/neutral flush	Wetland - Fens (upland and lowland)	V.High
Basic flush	Wetland - Fens (upland and lowland)	V.High
Bryophyte-dominated spring	Wetland - Fens (upland and lowland)	V.High
Fen	Wetland - Fens (upland and lowland)	V.High
Valley mire	Wetland – Oceanic valley mire[1] (D2.1)	V.High
Basin mire	Wetland – Oceanic valley mire[1] (D2.1)	V.High
Floodplain mire	Wetland – Oceanic valley mire[1] (D2.1)	V.High
Bare peat	Wetland - Depressions on peat substrates (H7150)	V.High
Swamp	Wetland - Fens (upland and lowland)	V.High
Marginal and inundation	Wetland - Fens (upland and lowland)	V.High
Marginal and inundation	Wetland - Reedbeds	High
Marginal vegetation	Use the feature that it is within, i.e. River, Lake type etc.	
Inundation vegetation	Wetland - Reedbeds	High
Natural rock exposures and caves (Good quality)	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Natural rock exposures and caves	Scarcely vegetated land - Other inland rock and scree	Medium
Inland cliff (High quality)	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Inland cliff	Sparsely vegetated land - Other inland rock and scree	Medium
Acidic inland cliff	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Basic inland cliff	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Scree	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Acidic scree	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Basic scree	Sparsely vegetated land - Inland rock outcrop and scree habitats	High
Limestone pavement	Sparsely vegetated land - Limestone pavement	V.High
Other natural rock exposure	Sparsely vegetated land - Other inland rock and scree	Medium
Other acidic natural rock exposure	Sparsely vegetated land - Other inland rock and scree	Medium
Other basic rock exposure	Sparsely vegetated land - Other inland rock and scree	Medium
Artificial rock exposures	Sparsely vegetated land - Other inland rock and scree	Medium
Artificial rock exposures	Sparsely vegetated land - Other inland rock and scree	Medium
Artificial rock exposures	Sparsely vegetated land - Other inland rock and scree	Medium
Artificial rock exposures	Sparsely vegetated land - Other inland rock and scree	Medium
Artificial rock exposures	Sparsely vegetated land - Other inland rock and scree	Medium
Artificial rock exposures	Sparsely vegetated land - Other inland rock and scree	Medium
Quarry	Urban - Active sand pit quarry or open cast mine	Low
Spoil heap	Urban - Active sand pit quarry or open cast mine	Low
Mine	Urban - Active sand pit quarry or open cast mine	Low
Refuse tip	Urban - Artificial unvegetated, unsealed surface	V.Low
Cultivated/disturbed ground	Cropland - Cereal crops	Low
Arable	Select most appropriate habitat within the 'Cropland' broad habitat type	Low
Amenity grassland	Grassland - Modified grassland	Low
Ephemeral / short perennial	Sparsely vegetated land - Ruderal/ephemeral	Low
Introduced shrub	Urban - Introduced shrub	Low
Fence	Urban - Built linear features	V.Low
Wall	Urban - Built linear features	V.Low
Built-up areas	Urban - Developed land; sealed surface	V.Low
Caravans	Urban - Developed land; sealed surface	V.Low
Sea wall (artificial materials)	Urban - Developed land; sealed surface	V.Low
Buildings	Urban - Developed land; sealed surface	V.Low
Bare ground	Urban - Vacant or derelict land	Low
Bare ground	Urban - Bare ground	Low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Local Authority Code	Authority Name
E06000001	Hartlepool
E06000002	Middlesbrough
E06000003	Redcar and Cleveland
E06000004	Stockton-on-Tees
E06000005	Darlington
E06000006	Halton
E06000007	Warrington
E06000008	Blackburn with Darwen
E06000009	Blackpool
E06000010	Kingston upon Hull, City of
E06000011	East Riding of Yorkshire
E06000012	North East Lincolnshire
E06000013	North Lincolnshire
E06000014	York
E06000015	Derby
E06000016	Leicester
E06000017	Rutland
E06000018	Nottingham
E06000019	Herefordshire, County of
E06000020	Telford and Wrekin
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E06000023	Bristol, City of
E06000024	North Somerset
E06000025	South Gloucestershire
E06000026	Plymouth
E06000027	Torbay
E06000028	Bournemouth
E06000029	Poole
E06000030	Swindon
E06000031	Peterborough
E06000032	Luton
E06000033	Southend-on-Sea
E06000034	Thurrock
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E06000039	Slough
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E06000042	Milton Keynes
E06000043	Brighton and Hove
E06000044	Portsmouth
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E06000046	Isle of Wight
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E06000051	Shropshire
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E06000053	Isles of Scilly
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E06000057	Northumberland
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E07000009	East Cambridgeshire
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E07000123	Preston
E07000124	Ribble Valley
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E07000126	South Ribble
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E07000129	Blaby
E07000130	Charnwood
E07000131	Harborough
E07000132	Hinckley and Bosworth
E07000133	Melton
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E07000135	Oadby and Wigston
E07000136	Boston
E07000137	East Lindsey
E07000138	Lincoln
E07000139	North Kesteven
E07000140	South Holland
E07000141	South Kesteven
E07000142	West Lindsey
E07000143	Breckland
E07000144	Broadland
E07000145	Great Yarmouth
E07000146	King's Lynn and West Norfolk
E07000147	North Norfolk
E07000148	Norwich
E07000149	South Norfolk
E07000150	Corby
E07000151	Daventry
E07000152	East Northamptonshire
E07000153	Kettering
E07000154	Northampton
E07000155	South Northamptonshire
E07000156	Wellingborough
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E07000164	Hambleton
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E07000166	Richmondshire
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E07000169	Selby
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E07000171	Bassetlaw
E07000172	Broxtowe
E07000173	Gedling
E07000174	Mansfield
E07000175	Newark and Sherwood
E07000176	Rushcliffe
E07000177	Cherwell
E07000178	Oxford
E07000179	South Oxfordshire
E07000180	Vale of White Horse
E07000181	West Oxfordshire
E07000187	Mendip
E07000188	Sedgemoor
E07000189	South Somerset
E07000190	Taunton Deane
E07000191	West Somerset
E07000192	Cannock Chase
E07000193	East Staffordshire
E07000194	Lichfield
E07000195	Newcastle-under-Lyme
E07000196	South Staffordshire
E07000197	Stafford
E07000198	Staffordshire Moorlands
E07000199	Tamworth
E07000200	Babergh
E07000201	Forest Heath
E07000202	Ipswich
E07000203	Mid Suffolk
E07000204	St Edmundsbury
E07000205	Suffolk Coastal
E07000206	Waveney
E07000207	Elmbridge
E07000208	Epsom and Ewell
E07000209	Guildford
E07000210	Mole Valley
E07000211	Reigate and Banstead
E07000212	Runnymede
E07000213	Spelthorne
E07000214	Surrey Heath
E07000215	Tandridge
E07000216	Waverley
E07000217	Woking
E07000218	North Warwickshire
E07000219	Nuneaton and Bedworth
E07000220	Rugby
E07000221	Stratford-on-Avon
E07000222	Warwick
E07000223	Adur
E07000224	Arun
E07000225	Chichester
E07000226	Crawley
E07000227	Horsham
E07000228	Mid Sussex
E07000229	Worthing
E07000234	Bromsgrove
E07000235	Haverhill
E07000236	Redditch
E07000237	Worcester
E07000238	Wychavon
E07000239	Wyre Forest
E07000240	St Albans
E07000241	Welwyn Hatfield
E07000242	East Hertfordshire
E07000243	Stevenage
E07000244	East Suffolk
E07000245	West Suffolk
E08000001	Bolton
E08000002	Bury
E08000003	Manchester
E08000004	Oldham
E08000005	Rochdale
E08000006	Salford
E08000007	Stockport
E08000008	Tameside
E08000009	Trafford
E08000010	Wigan
E08000011	Knowsley
E08000012	Liverpool
E08000013	St Helens
E08000014	Sefton
E08000015	Wirral
E08000016	Barnsley
E08000017	Doncaster
E08000018	Rotherham
E08000019	Sheffield
E08000020	Gateshead
E08000021	Newcastle upon Tyne
E08000022	North Tyneside
E08000023	South Tyneside
E08000024	Sunderland
E08000025	Birmingham
E08000026	Coventry
E08000027	Dudley
E08000028	Sandwell
E08000029	Solihull
E08000030	Walsall
E08000031	Wolverhampton
E08000032	Bradford
E08000033	Calderdale
E08000034	Kirklees
E08000035	Leeds
E08000036	Wakefield
E08000037	Gateshead
E09000001	City of London
E09000002	Barking and Dagenham
E09000003	Barnet
E09000004	Bexley
E09000005	Brent
E09000006	Bromley
E09000007	Camden
E09000008	Croydon
E09000009	Ealing
E09000010	Enfield
E09000011	Greenwich
E09000012	Hackney
E09000013	Hammersmith and Fulham
E09000014	Haringey
E09000015	Harrow
E09000016	Havering
E09000017	Hillingdon
E09000018	Hounslow
E09000019	Islington
E09000020	Kensington and Chelsea
E09000021	Kingston upon Thames
E09000022	Lambeth
E09000023	Lewisham
E09000024	Merton
E09000025	Newham
E09000026	Redbridge
E09000027	Richmond upon Thames
E09000028	Southwark
E09000029	Sutton
E09000030	Tower Hamlets
E09000031	Waltham Forest
E09000032	Wandsworth
E09000033	Westminster

Appendix 4: Principles of Biodiversity Net Gain

6.3 Summary

6.3.1 BNG is a process that works in line with local and district biodiversity strategies and priorities to ensure that developments provide an overall enhancement in biodiversity; firstly, through employing the ecological mitigation hierarchy during project design to avoid and minimise biodiversity loss in the first instance, and where habitat loss is unavoidable, ensuring suitable that a measurable BNG is delivered through an on and/or off-site habitat scheme.

6.3.2 BNG uses set parameters to assess the level of habitat loss, creation and enhancement within a development site. These parameters include habitat size, condition, distinctiveness, and strategic significance and are used to quantify habitat loss into biodiversity units using Defra's 'Statutory Biodiversity Metric' calculation tool.

6.3.3 Enhancement measures can include the provision of new habitats, provision of new habitat features and the improved management of existing habitats which will result in a measurable (in unit and functional ecological terms) net benefit to biodiversity, over and above the measures required to mitigate and compensate for the impacts of a Project scheme.

6.3.4 In line with the 2023 NPPF[4], opportunities to increase the ecological importance of the Project Site for Species of Principal Importance and deliver a biodiversity net gain have been maximised.

6.4 Good practice principles for development

6.4.1 CIEEM's Good Practice Principles for Development (2016[7]) set out ten guiding principles that should be considered and factored into the application of biodiversity net gain to development. These are:

Principle 1: Apply the Mitigation Hierarchy

6.4.2 Do everything possible to first avoid and then minimise impacts on biodiversity. Only as a last resort, and in agreement with external decision-makers where possible, compensate for losses that cannot be avoided. If compensating for losses within the development footprint is not possible or does not generate the most benefits for nature conservation, then offset biodiversity losses by gains elsewhere.

Principle 2: Avoid losing biodiversity that cannot be offset by gains elsewhere

6.4.3 Avoid impacts on irreplaceable biodiversity - these impacts cannot be offset to achieve No Net Loss or Net Gain.

Principle 3: Be inclusive and equitable

6.4.4 Engage stakeholders early, and involve them in designing, implementing, monitoring and evaluating the approach to Net Gain. Achieve Net Gain in partnership with stakeholders where possible and share the benefits fairly among stakeholders.

Principle 4: Address risks

6.4.5 Mitigate difficulty, uncertainty and other risks to achieving Net Gain. Apply well-accepted ways to add contingency when calculating biodiversity losses and gains in order to account for any remaining risks, as well as to compensate for the time between the losses occurring and the gains being fully realised.

Principle 5: Make a measurable Net Gain contribution

6.4.6 Achieve a measurable, overall gain for biodiversity and the services ecosystems provide while directly contributing towards nature conservation priorities.

Principle 6: Achieve the best outcomes for biodiversity.

6.4.7 Achieve the best outcomes for biodiversity by using robust, credible evidence and local knowledge to make clearly justified choices when:

- Delivering compensation that is ecologically equivalent in type, amount and condition, and that accounts for the location and timing of biodiversity losses.
- Compensating for losses of one type of biodiversity by providing a different type that delivers greater benefits for nature conservation.
- Achieving Net Gain locally to the development while also contributing towards nature conservation priorities at local, regional and national levels.
- Enhancing existing or creating new habitat.
- Enhancing ecological connectivity by creating more, bigger, better and joined areas for biodiversity.

Principle 7: Be additional

6.4.8 Achieve nature conservation outcomes that demonstrably exceed existing obligations (i.e. do not deliver something that would occur anyway).

Principle 8: Create a Net Gain legacy

6.4.9 Ensure Net Gain generates long-term benefits by:

- Engaging stakeholders and jointly agreeing practical solutions that secure Net Gain in perpetuity.
- Planning for adaptive management and securing dedicated funding for long-term management.
- Designing Net Gain for biodiversity to be resilient to external factors, especially climate change.

- Mitigating risks from other land uses.
- Avoiding displacing harmful activities from one location to another.
- Supporting local-level management of Net Gain activities.

Principle 9: Optimise sustainability

6.4.10 Prioritise Biodiversity Net Gain and, where possible, optimise the wider environmental benefits for a sustainable society and economy.

Principle 10: Be transparent

6.4.11 Communicate all Net Gain activities in a transparent and timely manner, sharing the learning with all stakeholders.

6.5 Principles for Use of the Defra Biodiversity Metric

6.5.1 As stated within previous iterations of the BNG metric[13,16] (and remaining relevant to Defra's 'Statutory Biodiversity Metric'), net gain calculations and assessments for projects should factor in and adhere to a set of key principles, which are:

6.5.2 Principle 1: The metric does not change the protection afforded to biodiversity. Existing levels of protection afforded to protected species and habitats are not changed by use of this or any other metric. Statutory obligations will still need to be satisfied.

6.5.3 Principle 2: Biodiversity metric calculations can inform decision-making where application of the mitigation hierarchy and good practice principles conclude that compensation for habitat losses is justified.

6.5.4 Principle 3: The metric's biodiversity units are only a proxy for biodiversity and should be treated as relative values. While it is underpinned by ecological evidence the units generated by the metric are only a proxy for biodiversity and, to be of practical use, it has been kept deliberately simple. The numerical values generated by the metric represent relative, not absolute, values.

6.5.5 Principle 4: The metric focuses on typical habitats and widespread species; important or protected habitats and features should be given broader consideration.

- Protected and locally important species needs are not considered through the metric, they should be addressed through existing policy and legislation.
- Impacts on protected sites and irreplaceable habitats are not adequately measured by this metric. They will require separate consideration which must comply with existing national and local policy and legislation. Data relating to these can be entered into the metric, to give an indicative picture of the biodiversity value of the habitats present on a site, but this should be supported by bespoke advice.

6.5.6 Principle 5: The metric design aims to encourage enhancement, not transformation, of the natural environment. Proper consideration should be given to the habitats being lost in favour of higher-scoring habitats, and whether the retention of less

distinctive but well-established habitats may sometimes be a better option for local biodiversity.

- Habitat created to compensate for loss of natural or semi-natural habitat should be of the same broad habitat type (e.g. new woodland to replace lost woodland) unless there is a good ecological reason to do otherwise (e.g. to restore a heathland habitat that was converted to woodland for timber in the past).
- Although the metric does not explicitly consider the biodiversity value provided by individual species, consideration should be given to locally relevant species interests when creating or enhancing habitats.

6.5.7 Principle 6: The metric is designed to inform decisions, not to override expert opinion. Management interventions should be guided by appropriate expert ecological advice and not just the biodiversity unit outputs of the metric. Ecological principles still need to be applied to ensure that what is being proposed is realistic and deliverable based on local conditions such as geology, hydrology, nutrient levels, etc. and the complexity of future management requirements.

6.5.8 Principle 7: Compensation habitats should seek, where practical, to be local to the impact. They should aim to replicate the characteristics of the habitats that have been lost, taking account of the structure and species composition that give habitats their local distinctiveness.

- Where possible compensation habitats should contribute towards nature recovery in England by creating 'more, bigger, better and joined up' areas for biodiversity (CIEEM, 2021a[7]).
- Through the strategic significance and spatial risk factors the biodiversity metric 4.0 places greater reward for habitat creation where it is strategically important and locally relevant.

6.5.9 Principle 8: The metric does not enforce a mandatory minimum 1:1 habitat size ratio for losses and compensation but consideration should be given to maintaining habitat extent and habitat parcels of sufficient size for ecological function. A difference can occur because of a difference in quality between the habitat impacted and the compensation provided. For example, if a habitat of low distinctiveness is impacted and is compensated for by the creation of habitat of higher distinctiveness or better condition, the area needed to compensate for losses can potentially be less than the area impacted. The metric calculates losses and gains by size as well as by biodiversity unit value or percentage. Note: consideration should be given to whether reducing the area or length of habitat provided as compensation is an appropriate outcome.

6.6 The ecological mitigation hierarchy

6.6.1 The ecological mitigation hierarchy comprises a staged process that starts with the avoidance of ecological impacts. The ecological mitigation hierarchy be summarised as follows:

- Step 1: Avoidance: Significant ecological impacts should be avoided in the first instance - through prioritising the development of sites of low ecological importance and/or through careful design work at the site level to avoid impacts to the most important habitats;
- Step 2: Mitigation: Where significant ecological impacts cannot be totally avoided, measures should be introduced to reduce the significance of these predicted impacts; and
- Step 3: Compensation: Where significant ecological impacts cannot be avoided or adequately mitigated, as a last resort, compensatory habitats should be delivered.
- The design proposals have incorporated ecological advice in order to avoid and minimise habitat loss and impacts to biodiversity wherever feasible prior to developing compensation measures.

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