

Stonestreet Green Solar

Biodiversity Net Gain Assessment

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APFP Regulation 5(2)(q) Planning Act 2008 The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

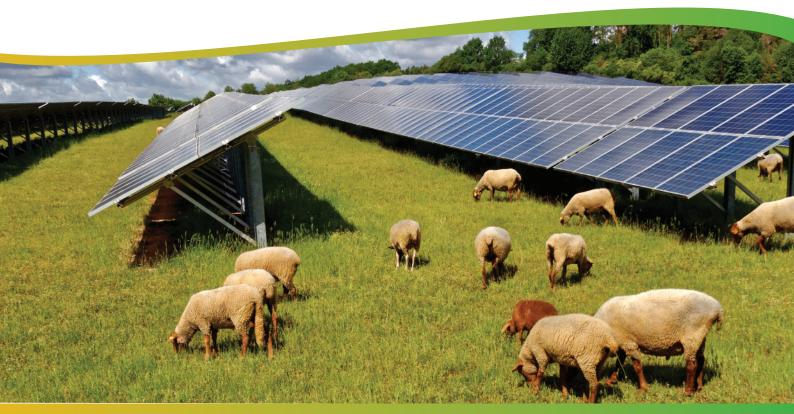


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1 Executive Summary

- 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 Guide¹ and statutory biodiversity metric tools and guides². 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') (2019³). 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 Plan⁴.

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 NPPF⁴ 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 (2019a³ and 2019b¹⁰) 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, 2020¹¹). 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, 2022¹⁹).
- 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, 2007¹²) in conjunction with the Biodiversity Metric 4.0 Habitat Condition Assessment Sheets¹³ (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 2020¹⁴. This document was used in conjunction with the Modular River Physical Survey ('MoRPh') Survey Technical Refere Manual 2022 version¹⁵. 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 Tool² 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.

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

Table 1: Distinctiveness Categories (Panks et al., 2022a¹⁶)

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 Monitoring¹⁷ 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**.

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

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

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.

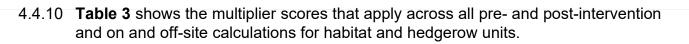


Table 3: Strategic significance categories for habitat and hedgerows (Panks et al., 2022a)

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.

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

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

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	s and multipliers	(Panks et al. 2	(122a)
Table J. Temporal	TISK Caleyones	s and multipliers	(F aliks et al., Z	uzzaj

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.

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.

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

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 (2023²) 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, 2019²⁰), 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, 2020⁶).
 - 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, 2020⁴). 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

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	Lenaths
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Habitat type	Distinctiveness	Condition	Length (km)	Ecologica 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
		1	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 -	2.17	11.17
		Moderate		
Other rivers and	High	Moderate	1.44	14.17
streams				

F	labitat type	Distinctiveness	Condition	Length (km)	Ecological baseline (Total units)
			Tot	al (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.

Habitat type	Area Retained (ha)	Area Enhance d (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

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

Habitat type	Area Retained (ha)	Area Enhance d (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/Ephemera I	-	-	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
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Habitat type	Length Retained (km)	Length Enhance d (km)	Length Lost (km)	Hedgero w Units Retained	Hedgero w Units Enhance d	Hedgero w 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 Enhance d (km)	Length Lost (km)	Hedgero w Units Retained	Hedgero w Units Enhance d	Hedgero w 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 Enhance d (km)	Length Lost (km)	River Units Retained	River Units Enhance d	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 criteria¹ 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
	1		Total (rounded)	1247

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**.

Habitat type Distinctive ess		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										

Table 15: Enhanced Habitat Units – Areas and Units

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**.

Native hedgerow -

associated with



Hedgerow Units Delivered

0.71

2.71

0.99

Table 10. Enhanced nedgerow office Eengin and office												
Habitat type	Distinctiven ess			Length Enhanced (km)								
Line of trees	Low	Moderate - Good	Good	0.12								
Native hedgerow	Low	Poor -	Good	0.44								

Good

Moderate

Good

80.0

Table 16: Enhanced Hedgerow Units – Length and Units

High

bank or ditch Native hedgerow Medium Poor -Good 0.92 10.74 with trees Good Native hedgerow High Moderate -Good 0.30 5.51 with trees -Good associated with bank or ditch Species-rich native Medium Moderate Good 0.21 2.46 hedgerow Species-rich native 1.56 High High Good 0.08 hedgerow with trees Species-rich native High Moderate -Good 0.09 2.30 hedgerow with Good trees - associated with bank or ditch

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	Habitat	+ 186.65 % (507.21 baseline - 1453.91 post development = +946.70 units)
enhancement	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 UKHab¹⁶ 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, 1981²²);
 - 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:

Figure 1: Habitat Prior to Development Plan*

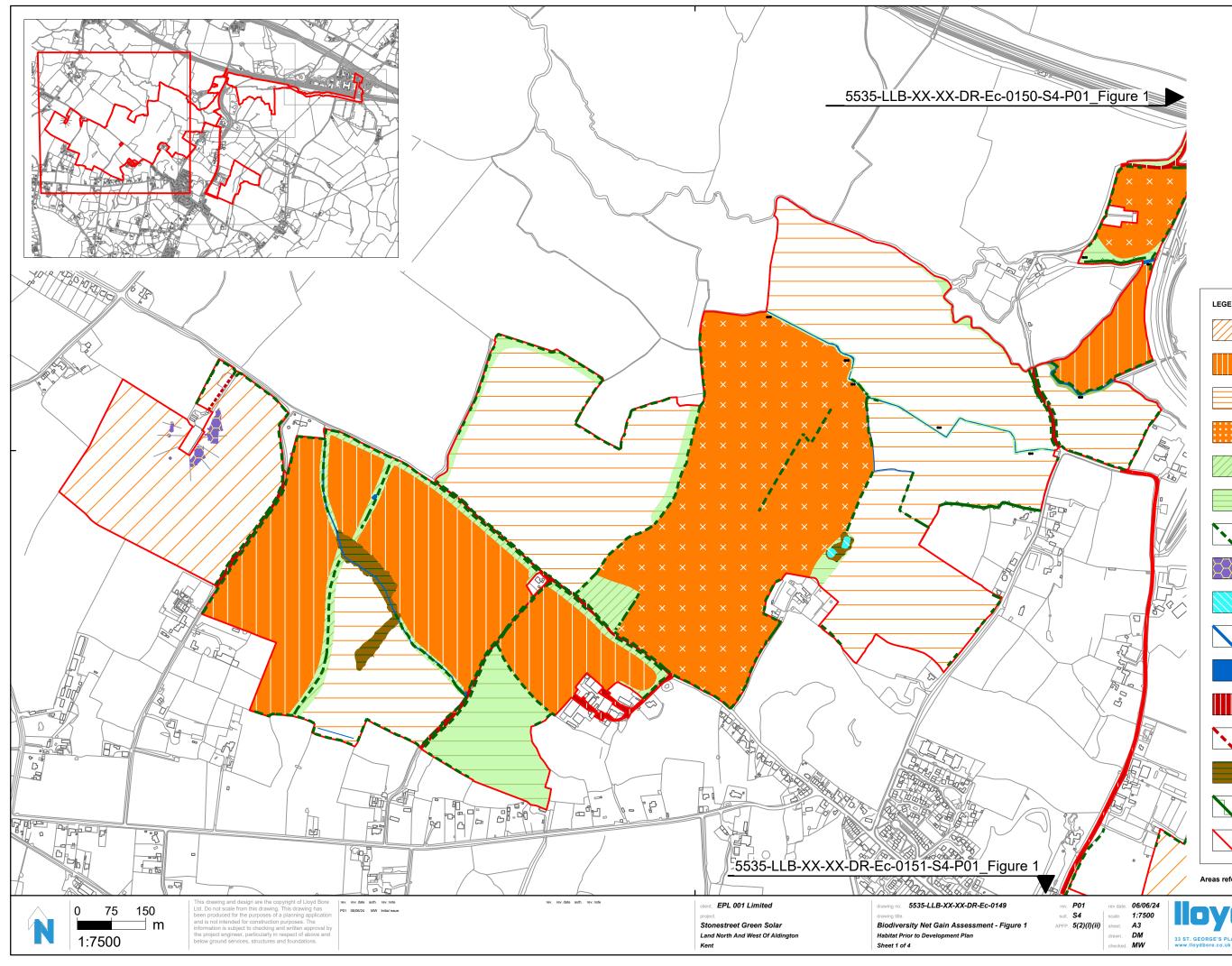
Figure 2: Habitat Impacts Plan**

Figure 3: Proposed Post Development Habitat Plan***

Notes:

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

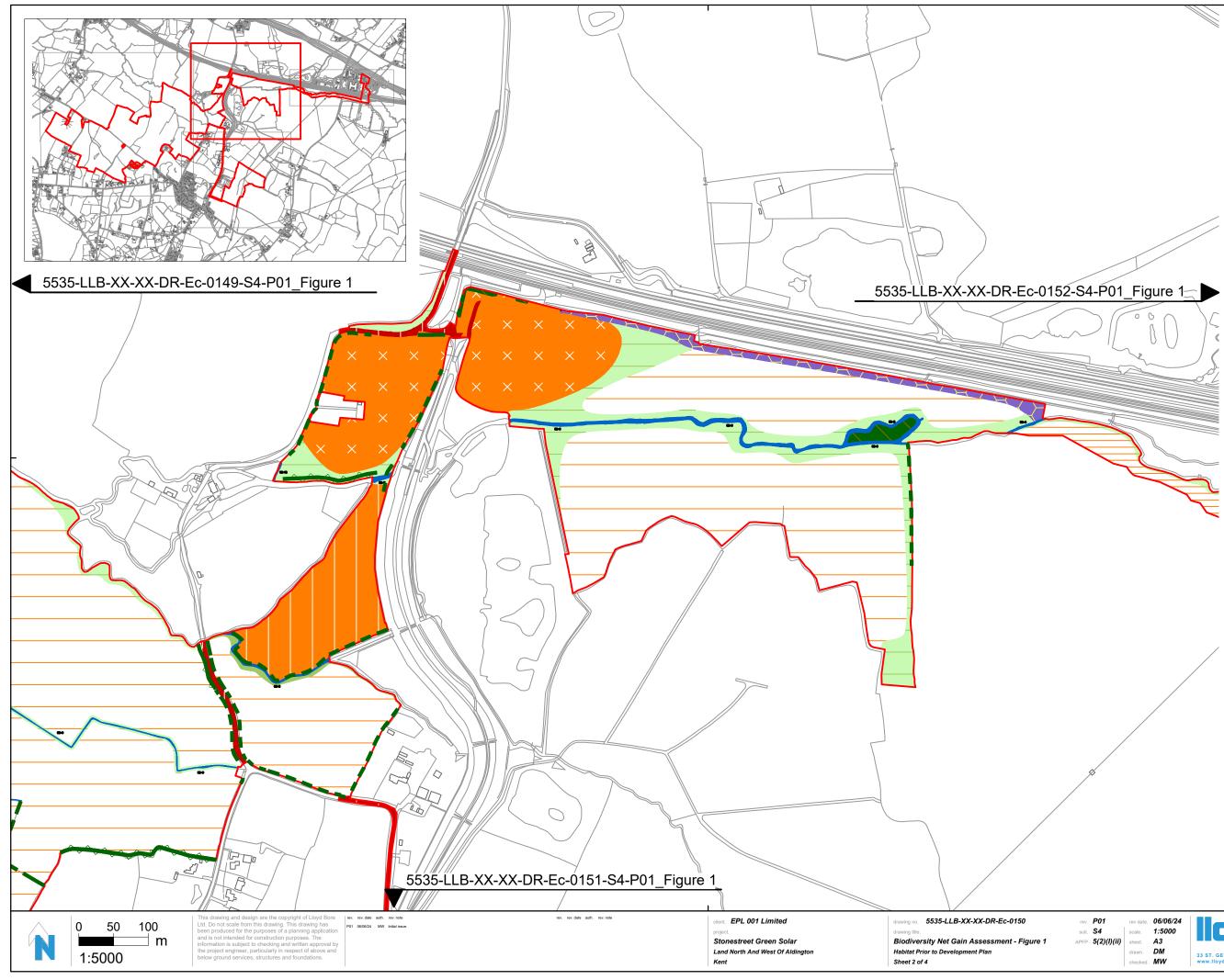
** This figure is the same as **ES Volume 3**, **Figure 9.10**: **Habitat Impacts Plan (Doc Ref. 5.3)**. *** This figure is the same as **ES Volume 3**, **Figure 9.11**: **Habitat Prior to Development Plan** (**Doc Ref. 5.3**).



ENC):									
	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.									
fer	fer to total habitat within Order limits.									

Areas refe

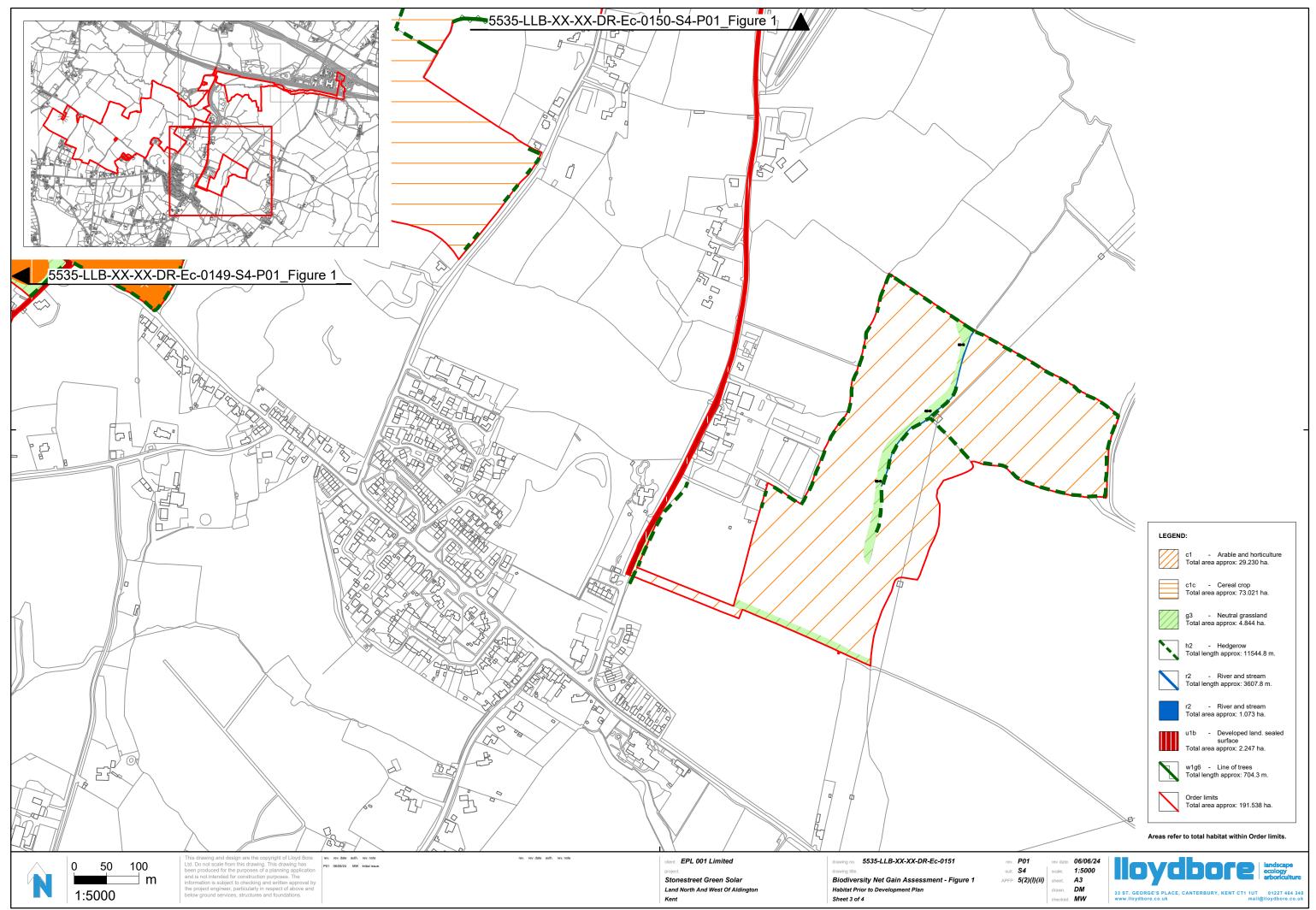
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LEGEN	D:
	c1b - Temporary grass and clover ley
	Total area approx: 28.025 ha.
	c1c - Cereal crop Total area approx: 73.021 ha.
x x x x x x x x x x x x x x x x x x	c1d - Non-cereal crop Total area approx: 34.657 ha.
	g3c - Other neutral grassland Total 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.

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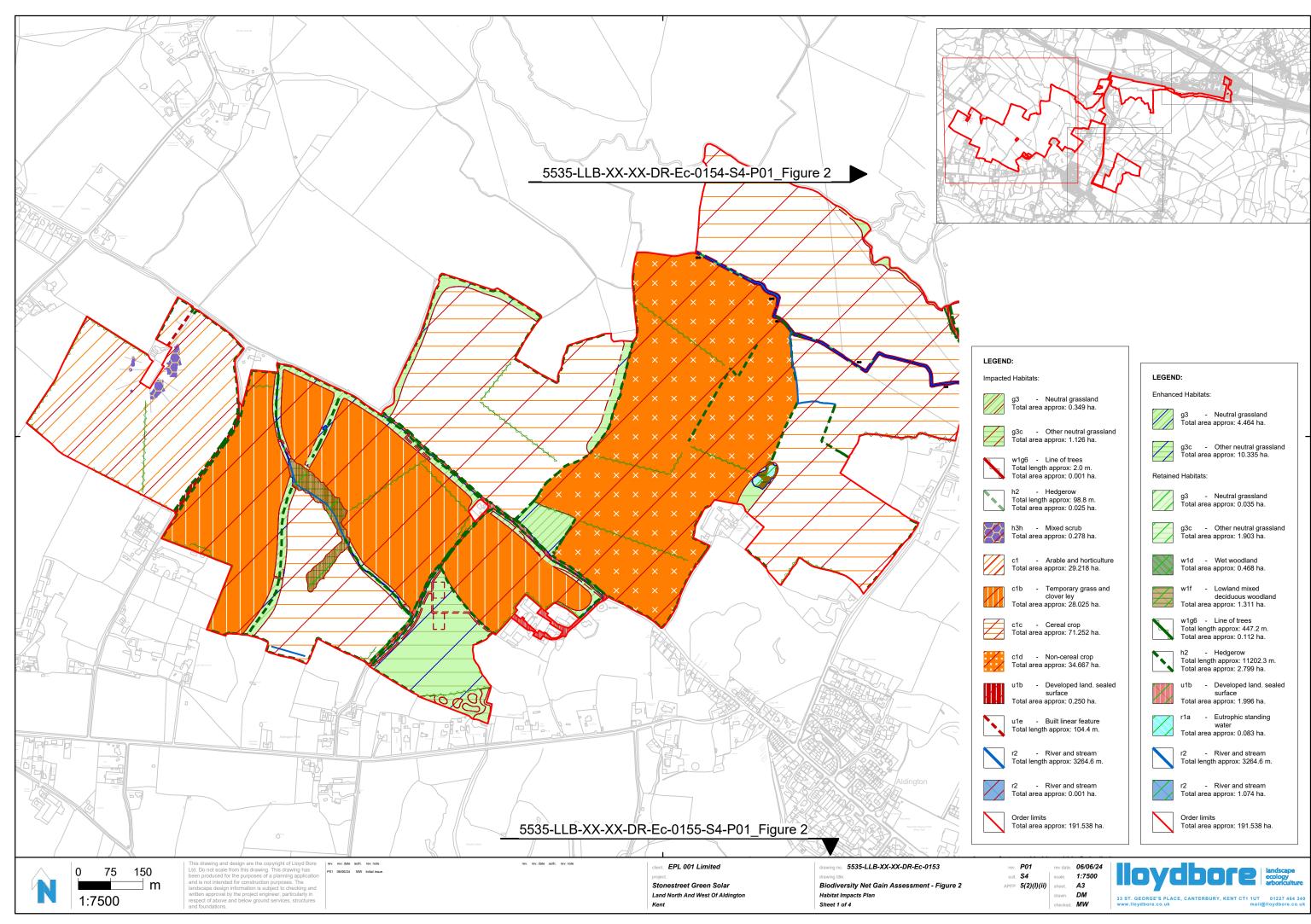
Biodiversity Net Gain Assessment - Figure 1 Habitat Prior to Development Plan Sheet 4 of 4

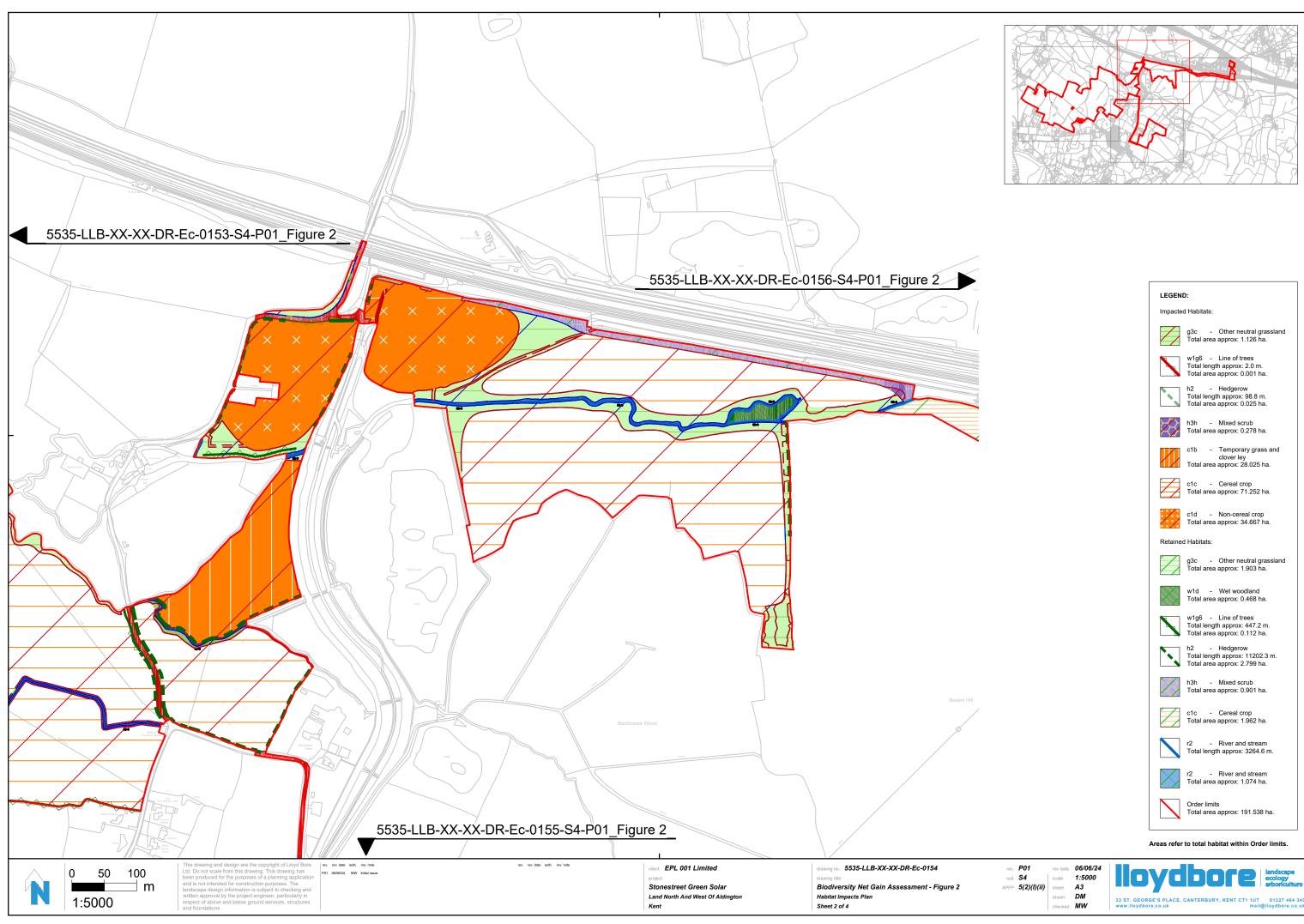
LEGEN	D:
	c1c - Cereal crop Total area approx: 73.021 ha.
	g3c - Other neutral grassland Total area approx: 13.330 ha.
	h3h - Mixed scrub Total area approx: 1.176 ha.
	r2 - River and stream Total length approx: 3607.8 m.
	r2 - River and stream Total area approx: 1.073 ha.
	u1b - Developed land. sealed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

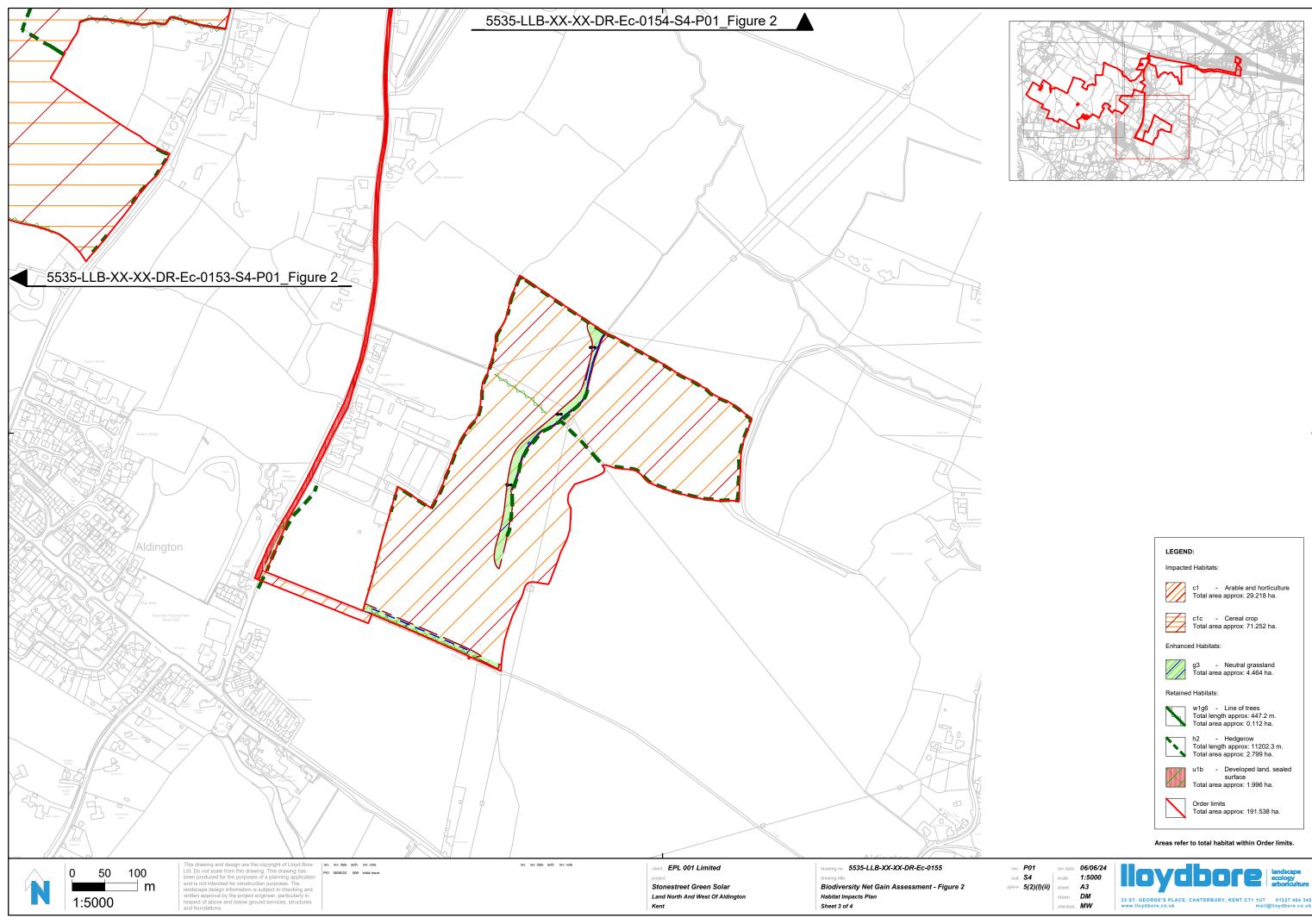
Areas refer to total habitat within Order limits.

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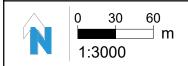






Habitat boundaries depicted may not accurately reflect the current conditions on the ground due to potential outdated aerial photography and the variable nature of seasonal vegetation.

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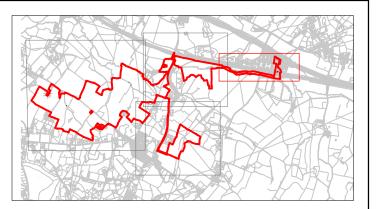
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drawing no. 5535-LLB-XX-XX-DR-Ec-0156 Biodiversity Net Gain Assessment - Figure 2 Habitat Impacts Plan

Sheet 4 of 4

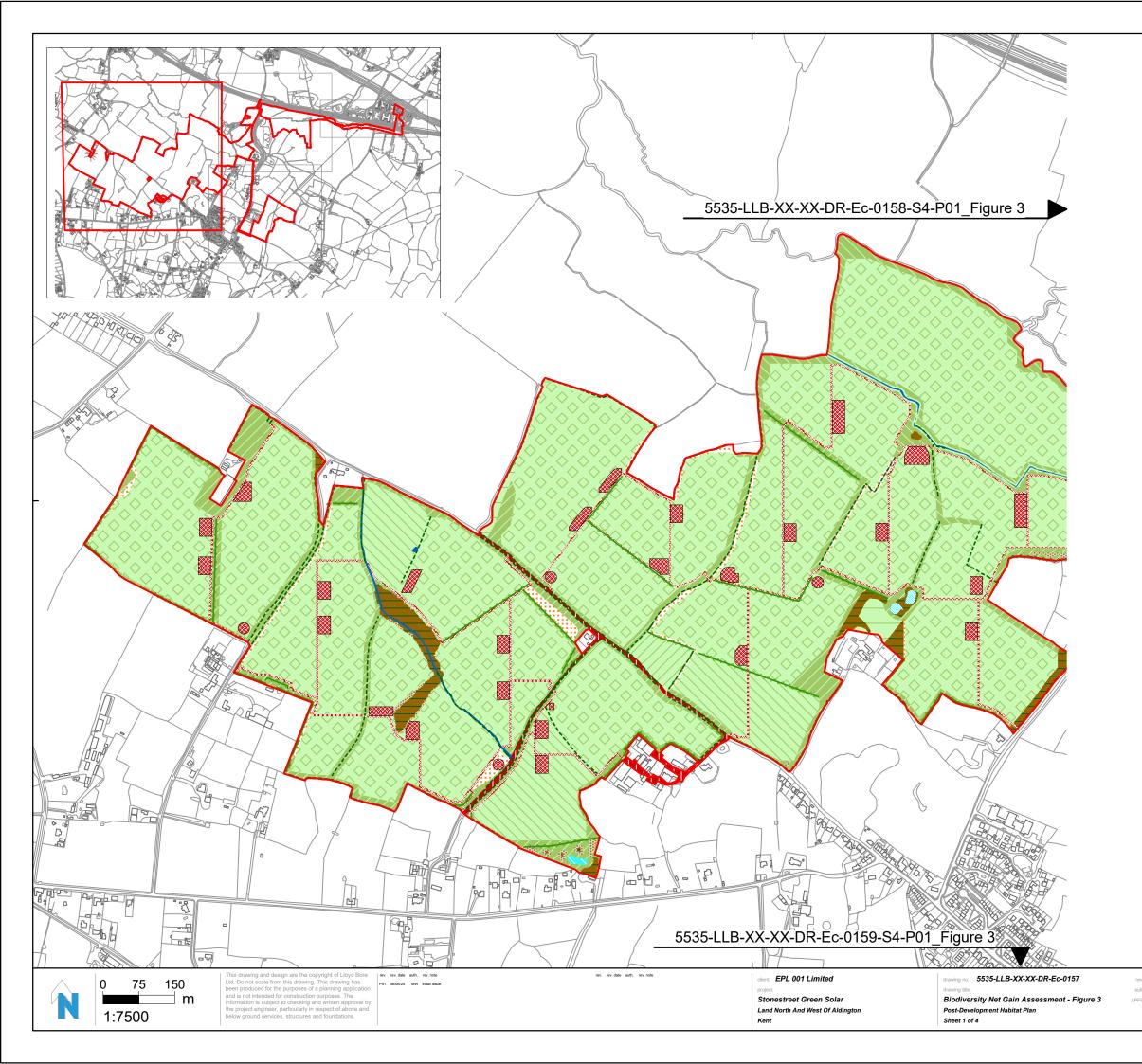


LEGEN	D:
Retained	l Habitats:
\square	g3c - Other neutral grassland Total area approx: 1.903 ha.
	w1d - Wet woodland Total area approx: 0.468 ha.
\mathbf{X}	h3h - Mixed scrub Total area approx: 0.901 ha.
	c1c - Cereal crop Total area approx: 1.962 ha.
\mathbf{X}	u1b - Developed land. sealed surface Total area approx: 1.996 ha.
X	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.
\sum	r2 - River and stream Total area approx: 1.074 ha.
	Order limits Total area approx: 191.538 ha.

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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 nosaic) 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.





 $\langle \diamond \rangle$





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. - River and stream r2

Total length approx: 3264.6 m.

- River and stream Total area approx: 1.135 ha.

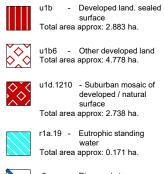
Order limits Total area approx: 191.538 ha.

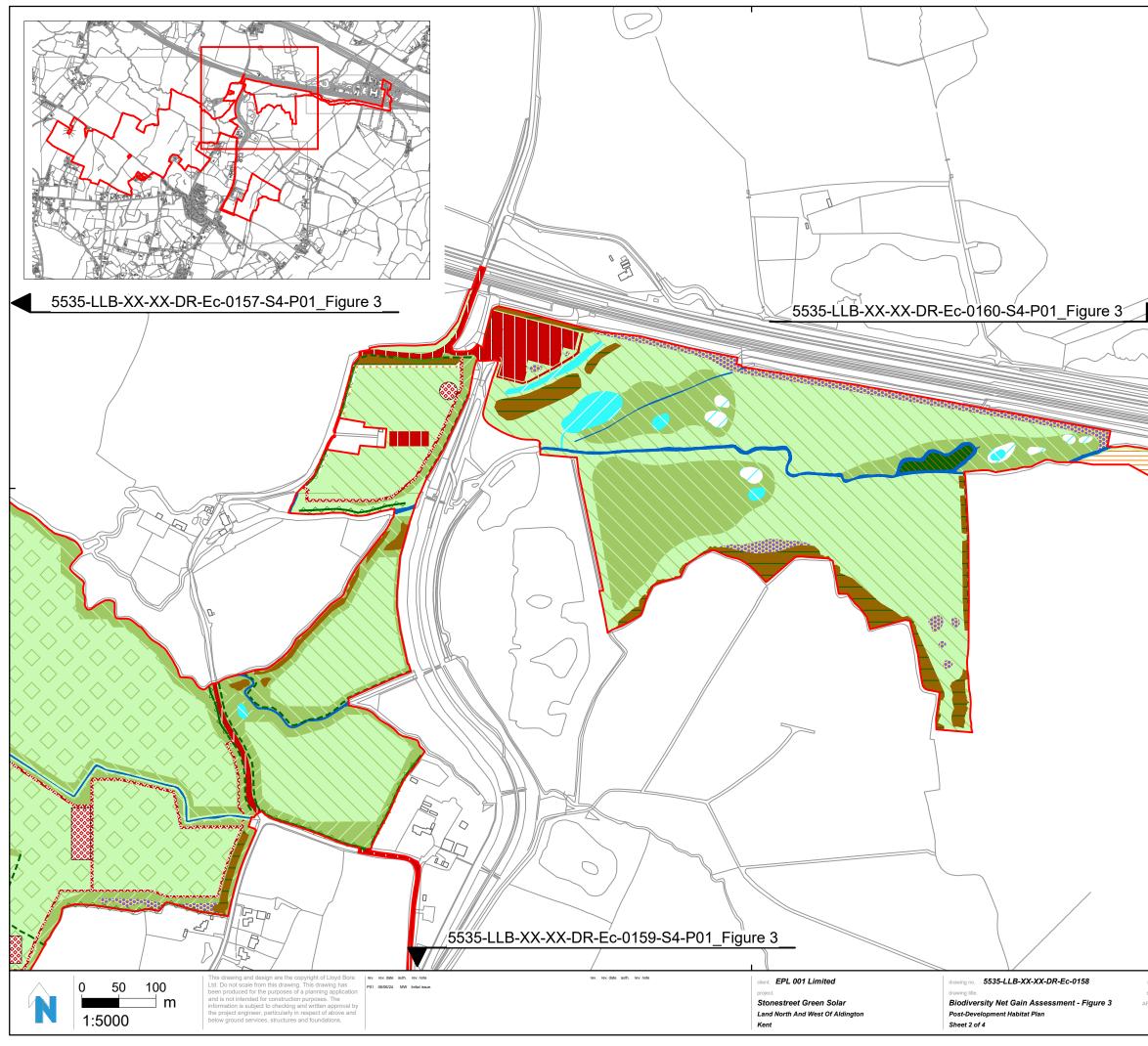
Areas refer to total habitat within Order limits.

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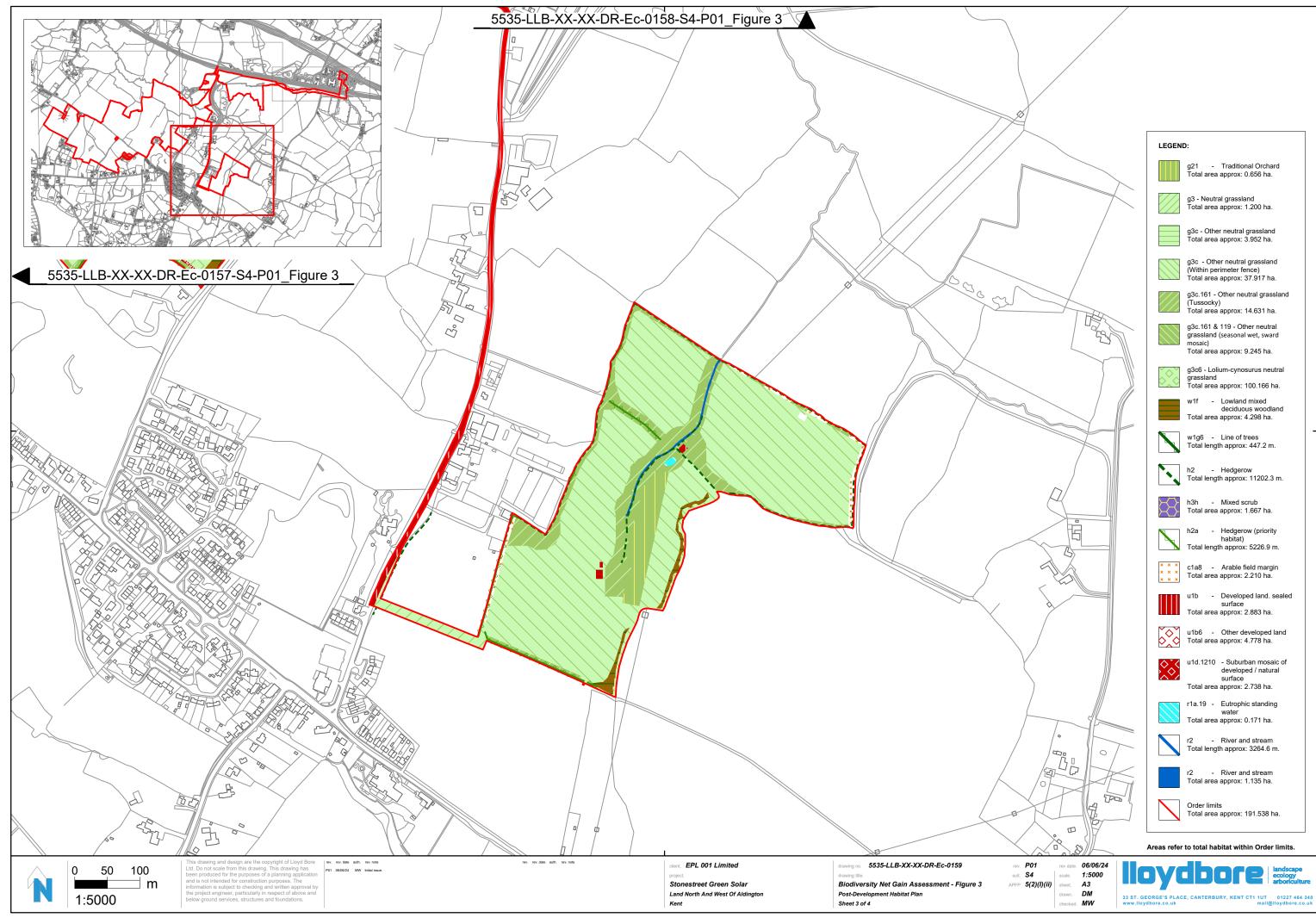
LEGEND: g3c - Other neutral grassland Total area approx: 3.952 ha. g3c - Other neutral grassland (Within perimeter fence) Total area approx: 37.917 ha. g3c.161 - Other neutral grassland (Tussocky) Total area approx: 14.631 ha. g3c.161 & 119 - Other neutral grassland (seasonal wet, sward mosaic) Total area approx: 9.245 ha. 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) habιτaτ) 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. - River and stream r2 Total length approx: 3264.6 m. River and stream r2 Total area approx: 1.135 ha. Order limits Total area approx: 191.538 ha.

Areas refer to total habitat within Order limits.

rev. **P01** suit. **S4** APFP 5(2)(I)(II) sheet. A3

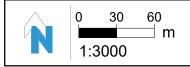
rev date. 06/06/24 scale. 1:5000 drawn. **DM** checked. MW

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rev. rev. date auth. rev. note

client. EPL 001 Limited Stonestreet Green Solar Land North And West Of Aldington Kent

drawing no. 5535-LLB-XX-XX-DR-Ec-0160

Biodiversity Net Gain Assessment - Figure 3 Post-Development Habitat Plan Sheet 4 of 4

rev. **P01** suit. **S4** APFP 5(2)(I)(II) sheet. A3



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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

BSc(Hons) CEnv MCIEEM Survey outside key botanical		Survey	e or off-s referen g to a wi	ce (if														
	water or damp vegetation	survey		uer														
Limitations (if applicable)	characterirstic of conditon seen during summer season.	Habitat WB1	-	reference WB13	e R11	I		1	I	1	1							
		Crid ro	ference		(south							-						
_		Ghu re		T		[1					-						
Condition Assessment Crite	via																	
Contaition Assessment Criti	fild	Criterio	on passe	ed (Yes o	or No)							Notes (such as						
		Y	N	N	ly i	1	1	1	1	1		justification)						
A The ditch is of good water turbidity) indicating no obv	quality, with clear water (low rious signs of pollution.																	
	merged and floating-leaved plants 10 species of emergent, floating or t in a 20 m ditch length.	N	N	N	N													
There is less than 10% cover of filamentous algae and or duckweed <i>Lemna</i> spp. (these are signs of eutrophication).		Y	Y	Y	Y													
		N	N	N	N													
A fringe of aquatic margin more than 75% of the ditc	al vegetation is present along h.																	
with examples of damage	nt along less than 5% of the ditch, including: excessive poaching, ise or storage, or any other ctivities.	Y	Y	Y	Y													
	maintained - as a guide a f approximately 50 cm in minor rains.	N	N	N	Y													
G Less than 10% of the ditcl	n 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	i (5 3	3 4	5													
Condition Assessment Result (out of 8 criteria)	Condition Assessment Score	Score /	Achieve	d ×/□			1				1							
Passes 8 criteria	Good (3)																	
Passes 6 or 7 criteria	Moderate (2)	+	+															
Passes 5 or fewer criteria		x	x	x	x													
	Poor (1) terventions to improve condition																	

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)													
Gra Gra Gra Gra Gra Sec Gra	Grassland - Lowland calcareous grassland Grassland - Lowland dry acid grassland Grassland - Lowland dry acid grassland Grassland - Other lowland acid grassland Grassland - Other neutral 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 calcareous grassland Grassland - Upland calcareous grassland												
Gr	Grassland - Upland hay meadows												
	Sparsely vegetated land - Calaminarian grassland Habitat Description												
Α.	South West Margins (Fields 1, 10) - r	network of arable field fringes in south wes											
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,													
ore	hab – UK Habitat Classification	rounds into a more diverse undisturbed ne	eted dogo	toil boawoo		thistle of	ried deg c	asses, , co	the more	for the second	ss, laise oa		e log, hogweed,
		5535 - Stonestreet Green Solar	On-site o	or off-site	On site								
Sit	e name and location	23.06.23 and 26.07.23 Mark Wingrove BSc(Hons) Cenv MCIEEM	Survey r (if relatin wider su	ng to a									
		N/A - assessed during June and July	Habitat p	Darcel refere		D -			1	1	1	1	-
Lir	nitations (if applicable)		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.					
			Grid refe	erence	1	1 · ·	1	Г	L	1		1	
Co	ondition Assessment Criteria												
			Culture										Notes (such as
			Criterion	N - limited		Y-	Y -	N - due				1	justification)
A	The grassland is a good representat identified as, based on its UKHab de composition of the vegetation closely specific grassland habitat type. Indic specific grassland habitat type are c Note - this criterion is essential fo condition for non-acid grassland t	escription - the appearance and y matches the characteristics of the ator species listed by UKHab for the onsistently present. r achieving Moderate or Good	while some areas are damage d and track marked, continuo us areas of diverse grasslan d sward are present in many areas	areas of continous grass sward as arable extends almost up to hedgerow row with some areas more aking to ruderal arable margin	majority of extent has good grasslan d sward with relatively little tracking damage		continou s variable sward as one of best example						
в	Sward height is varied (at least 20% least 20% is more than 7 cm) creatin opportunities for insects, birds and s		Y - variation in sub areas across extent and also	Y - variation in sub areas across extent and also due to vehicle	Y - variation in sub areas across extent and also due to	Y- encroach ment by arable plants but comprise s large	Y	N					
с	Cover of bare ground is between 1% example, rabbit warrens ¹ .	o and 5%, including localised areas, for	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 <i>Pteridium aquilinur</i> (including bramble <i>Rubus fruticosus</i>	n is less than 20% and cover of scrub agg.) is less than 5%.	Y	Y	Y	Y	Y	Y					
E	damage (such as excessive poachin storage, damaging levels of access, activities) accounts for less than 5%	or any other damaging management of total area. ries ³ (as listed on Schedule 9 of WCA ⁴)	N - due to physical damage from agricultu ral 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 manage d	N					

Additional Criterion - must be assess	sed for all non-acid grassland types											
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-			N - forbs are generally species indicative of sub- optimal condition	N - though some localised areas include a diverse grass	N	Y - decent sward diversity	N					
Essential criterion for Good condition achieved (for non-acid grassland) Yes No Yes Yes Yes No												
	(Yes or No											
	Number of criteria passed	3	2	3	5	6	1					
Condition Assessment Result	Condition Assessment Score	Score A	chieved ×/□									
Acid Grassland types (Result out of	5 criteria)	1	1	1	1		1			1		1
Passes 5 criteria	Good (3)											
Passes 3 or 4 criteria	Moderate (2)											
Passes 2 or fewer criteria	Poor (1)											
Non-acid grassland types (Result ou	t of 6 criteria)	1			1		1	1		1		
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 intervention												
	king and fertilizer run off for all parcels. In n arable management will benefit all areas.	nany place	s sward heig	ght is reaso	onably tall	and possil	bly preven	ting establi	sment of	forbs - a lir	nited grazir	ng or cutting

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

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 - Ponds (non-priority habitat) Lakes - Temporary lakes ponds and po	ole (H3170) [] lee this condition sh	eet for T	emporary	nonds ar	nd nools u	se l ake r	condition	sheet for T	Temporary	/ lakes]		
Lakes - Ornamental lake or pond [Use									omporary	laiteej		
Habitat Description							-					
WB2 / WB3 - Ponds within woodland and	beavily shaded. Appear relatively	shallow v	without m	uch aqua	tic vegetat	ion likely	leaf litter	in hase				
WB11 - small depression along hedgerow									autumn, s	o likely of	ften dry	
WB25 - small pond at end of ditch, conne		r of field.	Typha er	ncroachec	l but with a	reas of o	pen water					
Note WB1 has been included within ditch	assessment											1
ukhab – UK Habitat Classification	reity Matric 4.0 Tachnical Appay 2											
Tor ponds (non-priority) – see the bloarve	For ponds (non-priority) – see the Biodiversity Metric 4.0 Technical Annex 2 5535 - Stonestreet Green Solar			On site								
	24.10.23 Mark Wingrove	site	e or off-									
Site name and location	BSc(Hons) CEnv MCIEEM	Survey	,									
		referen	•									
		relating										
	Survey outside key botanical	wider s	t parcel r	oforonco								1
	season but all ponds containing	WB2	WB3	WB11	WB15	1	1	1	1	—	T	4
	water or damp vegetation	1102	1100									
Limitations (if applicable)	characterirstic of conditon seen during summer season.											
	during summer season.											
		Grid re	ference									
Condition Assessment Criteria												
		Criterio	on passe	d (Yes or	· No)							Notes (such as
												justification)
Core Criteria - applicable to all ponds	(woodland ¹ and non-woodland):							_				
The pond is of good water quality, wit	h clear water (low turbidity)	N	N	N (dry)	N							
A indicating no obvious signs of pollutio	n. Turbidity is acceptable if the											
pond is grazed by livestock.												
There is semi-natural habitat (modera	te distinctiveness or above)	N	N	N	N							
B completely surrounding the pond, for a												
for its entire perimeter.												
		Y	Y	Y	Y							
C Less than 10% of the water surface is	covered with duckweed Lemna											
spp. or filamentous algae.												
		N	N	N	N					+	+	
D The pond is not artificially connected t												
agricultural ditches or artificial pipewo	ork.											
		Y	Y	Y	Y						+	
E Pond water levels can fluctuate natura		1	-									
^L obvious artificial dams ² , pumps or pip	ework.											
		V	Y	v	v						+	
		l.	'	'	1							
F There is an absence of listed non-nati	ve plant and animal species".											
		Y	Y	Y	N N					<u> </u>	<u> </u>	
The pond is not artificially stocked wit	h fish. If the pond naturally	ľ	ř	Y	Y							
G contains fish, it is a native fish assemble												
										<u> </u>		
Additional Criteria - must be assessed	for all non-woodland ponds:	1		<u> </u>	<u> </u>							1
Emergent, submerged or floating plan	to $(avaluding dual wood)^4$ as yes at			Y	Y							
H least 50% of the pond area which is le												
The second sector is a second the 500	V - b - d - d b P			N	Y							
The pond surface is no more than 50% scrub.	% shaded by adjacent trees and											
	Number of criteria passed	4	4	5	6							
Condition Assessment Result	Condition Assessment Score	Score /	Achieved	×/□								
Results for woodland ponds which red	quire assessment of 7 core criteri	a										
Passes 7 criteria	Good (3)	1		1	1	1				1		
Passes 5 or 6 criteria	Moderate (2)		-			1				1	1	
Passes 4 or fewer criteria	Poor (1)	x	x	+		+			-	+	+	
Results for non-woodland ponds whic					- I	-				-		
Passes 9 criteria	Good (3)									1		
Passes 6 to 8 criteria	Moderate (2)	1	+	+	Y	1	1		1	+	1	
Passes 5 or fewer criteria	Poor (1)	+	-	x	-	+			1	+	1	
		I				1		1	1			
Suggested enhancement interventions	s 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

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 UKHab – UK Habitat habitats: Classification On-site 10th December 2023 Survey date and On-site or off-site, site name and location James Madden BSc MSc Surveyor name ACIEEM Survey reference (if Limitations (if applicable) relating to a wider survey) 2. 3 and 4 Grid reference Habitat parcel reference Criterion passed (Yes Notes (such as **Condition Assessment Criteria** or No) justification) Core Criteria - must be assessed for all urban habitat types: No Vegetation structure is varied, providing opportunities for vertebrates and invertebrates to live, eat and breed. A single structural habitat component or А vegetation type does not account for more than 80% of the total habitat area. No The habitat parcel contains different plant species that are beneficial for wildlife, for В example flowering species providing nectar sources for a range of invertebrates at different times of year. No Invasive non-native plant species (listed on Schedule 9 of WCA¹) and others which are to the detriment of native wildlife (using professional judgement)² cover less than 5% of the total vegetated area³. С Note - to achieve Good condition, this criterion must be satisfied by a complete absence of invasive non-native species (rather than <5% cover). Additional Criterion - must be assessed for Open mosaic habitat on previously developed land only: The parcel shows spatial variation and forms a mosaic of bare substrate PLUS: At least four early successional communities (a) to (i); D 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: Plant species are mostly native. If non-native species are present, they should not be E1

Urban - Sparsely vegetated land - Ruderal / ephemeral - Mosses and ephemeral vegetation with some tall forbs present. Coverage by grass

 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 wildlife⁴.

 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 70% of the roof area is soil and vegetation			
Addi	tional Criterion - must be assessed for Biod	liverse green roofs only:		
G	The roof has a varied depth of 80 – 150 mr planted and seeded with wildflowers and se wildflowers. Note – to achieve Good condition some stones, logs etc. are present.			
		Essential criteria relevant for habitat t	vpe achieved (Yes or No)	No
			lumber of criteria passed	
	dition Assessment Result	Condition Assessment Score	Score Achieved ×/√	
	ults for habitats requiring assessment of 3 c tat on previously developed land, Bioswa	ore criteria only (all listed urban habitats e ale, SuDS and Green roofs):	except Open mosaic	
AND • Me	sses all 3 core criteria; ets the requirements for Good condition n criterion C.	Good (3)		
OR • Pas the r	sses 2 of 3 core criteria; sses 3 of 3 core criteria but does not meet equirements for Good condition within rion C.	Moderate (2)		
۰Pa	asses 0 or 1 of 3 core criteria.	Poor (1)	x	
	ults for Green roofs and Open mosaic hab uiring assessment of 4 criteria only - core c	itat on previously developed land riteria plus additional criterion specified for h	abitat type):	
AND • Me withi AND • Pas	ets the requirements for Good condition n criterion C;	Good (3)		
OR • Pas requ	sses 2 or 3 of 4 criteria; sses 4 of 4 criteria but does not meet the irements for Good condition within rion C.	Moderate (2)		
۰Pa	sses 0 or 1 of 4 criteria.	Poor (1)		
	ults for Bioswale or SuDS (requiring assess at type):	sment of 5 criteria - core criteria plus addition	onal criteria specified for	
• Pas AND • Me withi AND • Pas	ets the requirements for Good condition n criterion C;	Good (3)		
OR • Pas requ	esses 3 or 4 of 5 criteria; esses 5 of 5 criteria but does not meet the irements for Good condition within rion C.	Moderate (2)		
• Pas	sses 2 or fewer of 5 criteria.	Poor (1)		
Sug	gested enhancement interventions to imp	prove condition score		
Foot	notes			

	adition Chesty CODUD Lightet T												
	ndition Sheet: SCRUB Habitat T (Habitat Classification (UKHab)											_	
	athland and shrub - Blackthorn												
-	athland and shrub - Blackthorn												
-	athland and shrub - Hawthorn s												
He	athland and shrub - Hazel scrub												
	athland and shrub - Mixed scrub												
	athland and shrub - Dunes with	· · · · ·											
	athland and shrub - Willow scru bitat Description	<u>b</u>											
		dary) - Mixed scrub fringe along northern site bo	undary	embank	ement wł	hich includ	les scrub	and sm	all tree	s Gener	ally den	se and co	ntinous and
		ramble common but diversity of other tree and						and on					
	rcel 5 (Sellindge, 10.01.24)- Mixed low-herb and teasel.	scrub. Predominantly alder (Alnus sp.) with bra	amble (F	Rubus fru	ticousus	agg.) and	Buddleia	a davidii	i. Tall fo	rbs pres	ent inclu	ding com	mon nettle,
_		Dunes with sea-buckthorn (Dunes with Hippop	hao rha	mnoidea) - Speci	al Areas o	of Conser	vation (ince do	v uk)			
					sj - Opeci			valion	JIICC.go	<u>v.ukj</u>			
	For other scrub types see:												
		5535 - Stonestreet Green solar	On-sit	e or off-	site	On site							
Sit	e name and location	23.06.23 and 26.07.23 Mark Wingrove	0										
511		BSc(Hons) Cenv MCIEEM - Parcel A		y referen ng to a w	•								
		10.01.24 Sellindge James Madden BSc(Hons) MSc ACIEEM	surve	-									
		Parcel A Not directly acessible.	-		reference	ce							
			A -	5 -	6 -								
Lir	nitations (if applicable)	Sellindge areas surveyed in January	Field	Sellind									
	,		26/27	ge	ge								
			Grid r	eference	,		· · ·						
		·											
Co	ondition Assessment Criteria												
													Notes (such
			Criteri	ion pass	ed (Yes	or No)							as justification)
	1		Yes	Yes	Yes	1 1				I	1		Relatively
	,	on of the habitat type it has been identified as,											diverse mix
		where in its natural range). The appearance											of native
	specific scrub type.	n closely matches the characteristics of the											species even though
													bramble
А		nd there are at least three native woody											frequent
		omprising more than 75% of the cover (except											
		juniper <i>Juniperus communis</i> , sea buckthorn <i>uxus sempervirens</i> , which can be up to 100%											
	cover).	and semper mens, which can be up to 100%											
	,												
			No	No	No								Mostly
		2											mature shrubs
в		s and mature (or ancient or veteran ²) shrubs											generally
	are all present.												dense and
													lacking
\vdash			Yes	No	No								seedlings
		non-native plant species ³ (as listed on											
С	Schedule 9 of WCA ⁴) and species	s indicative of sub-optimal condition ⁵ make up											
	less than 5% of ground cover.												
\vdash			No	No	No		\vdash						Limited
													grading as
		day with poptional service and fell and set and											arable
D	The scrub has a well-developed e and or forbs present between the	dge with scattered scrub and tall grassland											margins stop almost as
		ee. az ana aajaoont nabitat.											scrub edge
													behing fence
\vdash			NI-	NI-	NI-								Delethist
1			No	No	No								Relatively dense shrub
F	There are clearings, glades or ride	es present within the scrub, providing											comprises
Е	sheltered edges.	-											majority of
													rail
		Number of criteria passed	2	1	1								embankment
Co	ndition Assessment Result			Ľ	<u> </u>								
	ut of 5 criteria)	Condition Assessment Score	Score	Achieve	ed ×/□								
	sses 5 criteria	Good (3)		1			Ι						
-	sses 3 or 4 criteria	Moderate (2)	+	-	-								
			x	x	x								
	sses 2 or fewer criteria	Poor (1)	^	^	^								
ગા	ggested enhancement intervent	ions 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

Co	ndition Sheet: W	OODLAND Habitat Typ	pe												
Uk Wa	Habitat Classific	cation (UKHab) Habita st - Lowland beech an	t Type(s) d yew woodland												
	bodland and fore bodland and fore	st - Lowland mixed de st - Native pine woodla st - Other coniferous w st - Other Scot's pine v st - Other woodland; n st - Other woodland; n st - Upland birchwood st - Upland birchwood st - Upland oakwood st - Upland oakwood st - Wet woodland	ands voodland woodland vroadleaved nixed s												
un		orthern site boundary or ed ground flora visible f													
Th		<u>Classification</u> is based on the England polkit (sylva.org.uk)	d Woodland Biodiversit	y Group (EWBG) Woo	dland C	ondition	Survey	Method	, availabl	e here:					
IM no	PORTANT: This bi t equivalent to, nor	odiversity metric woodla are they comparable w dicator 7 (Proportion of	ith the scores from the	EWBG condition asse	essment	, becaus	e the E	WBG as	sessmer	nt has b	een ada	apted for	the biod		
	e name and ation	5535 - Stonestreet Green Solar 23.06.23 and	On-site or off-site	On- site	A -	t parcel Parcel B -		ce Parcel D -	Parcel E -						-
	nitations (if plicable)	No access to parcel C - understorey viewed at distance. Survey in June/July may miss early	Survey reference (if relating to a wider survey)			eference									
Co	ondition Assessm														Notes (see both
Inc	licator	Good (3 points)	Moderate (2 points)	Poor (1 point)		per indi	-	T				1	- I	T	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						
в	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
с	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 acros 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 .	trees and 50 - 80%	<50% of canopy trees and <50% of understory shrubs are native ⁵ .	3	3	3	3	3						Woodlands generally entirel 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						

Tree health	than 10%, no pests or diseases and no	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						
Vegetation and ground flora	plant community ¹⁰ at ground layer present, strongly characterised by ancient woodland	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.
vertical	survey plots, or a	Two storeys across all survey plots ¹¹ .	One or less storey across all survey plots ¹¹ .	2	3	2	1	2						
		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
Amount of deadwood	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	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 dead branches and or stems, stubs and stumps, or an abundance of small cavities ¹³ .	1	2	1	1	2						
Woodland disturbance	enrichment or damaged ground	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						
					33	29	27	28						
			ent Score	Result		ed								
· · ·	o 39)	()			Good									
al score 26 to 32		Moderate (2)		Mod		Mod	Mod	Mod						
al score <26 (13 to	o 25)	Poor (1)												
			y be beneficial to allow	better	establisn	nent of g	round fl	ora, othe	erwise re	quires ti	me for m	ore mat	ure trees t	o become
	Tree health Vegetation and ground flora Woodland vertical structure Veteran trees Amount of deadwood Woodland disturbance ndition Assessm al score >32 (33 to al score <26 to 32 al score <26 (13 to ggested enhance rcel A - Field 26 no	Indecases and no crown dieback ⁹ . Vegetation and ground layer present, strongly characterised by ancient woodland flora specialists. Woodland vertical structure Three or more storeys across all survey plots, or a complex woodland ¹¹ . Veteran trees Two or more veteran trees ¹² per hectare. 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 . Woodland disturbance No nutrient enrichment or damaged ground evident ¹⁴ . Iscore >32 (33 to 39) 39) al score 26 (13 to 25) 39 gested enhancement interventions to reaction. 50	Tree healthIree mortality less than 10%, no pests or crown dieback ⁹ .mortality and or crown dieback or low-risk pest or disease present ⁹ .Vegetation and ground floraRecognisable 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.Woodland vertical structureThree or more storeys across all survey plots, or a complex woodland ¹¹ .Two storeys across all survey plots ¹¹ .Veteran treesTwo or more veteran trees ¹² per hectare.Detween 25% and 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, large dead branches and or stems, stubs and stumps, or an abundance of small cavities ¹³ .Woodland disturbanceNo 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 and damaged ground ¹⁴ .Woodland al score >32 (33 to 39)Good (3) al score <26 (to 32 al score <	Tree health Intermotiality less than 10%, no pests or diseases and no crown dieback or lisease present ⁹ . Greater than 25% tree mortality and or crown dieback or disease present ⁹ . 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. 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 . Veteran trees Two or more veteran trees ¹² per hectare. One veteran tree ¹² per hectare. No veteran trees ¹² per hectare. Amount of deadwood, adadwood, such as standing deadwood, large dead branches and or stems, stubs and 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 . More than 1 hectare in total of nutrient enrichment across woodland area has damaged ground ¹⁴ . Woodland disturbance No nutrient enrichment across woodland area has damaged ground ¹⁴ . More than 1 hectare of nutrient enrichment and or woodland area has damaged ground ¹⁴ . More tao 1 Secre > 23 (33 to 39) Good (3) al score > 26 (13 to 25) Por (1) ggested dnancher medge Some opening of shrub layer m	Tree health The or mortality less than 16%, no pests or diseases and no crown dieback or orown dieback or orown dieback or orown dieback or disease present?. Greater than 25% the mortality and or any high-risk pest or disease present?. Vegetation and ground layer present, strongly characterised by ancient woodland flora specialists. Recognisable NVC plant community ¹⁰ at ground layer present flora specialists. No recognisable woodland NVC plant community ¹⁰ at ground layer present flora specialists. No recognisable woodland NVC plant community ¹⁰ at ground layer present flora specialists. No recognisable woodland flora specialists. One or less storey across all survey plots or a complex woodland 11. No veteran trees ¹² per hectare. One veteran tree ¹² per hectare. No veteran trees ¹² per hectare. No wodland ree have d	Tree health Iftee montally less than 10%, no pests or crown dieback ⁹ . Intermoting weak of the mortality and or crown dieback ⁹ . Intermoting weak of the mortality and or any high-risk pest or disease present ⁹ . Intermoting weak of the mortality and or any high-risk pest or disease present ⁹ . Vegetation and ground flora Recognisable NVC plant community ¹⁰ at ground layer present. Recognisable woodland NVC plant community ¹⁰ at ground layer present. No recognisable woodland NVC plant community ¹⁰ at ground layer present. Image: the top t	Tree health If ree mortality and or crown dieback or diseases and no crown dieback or disease present? Ore and fully and or disease present? Greater than 125% or disease present? Image: the set or disease present set or disease present set or disease pres	Tree health If em motality less than 10%, no pests or disease present ⁰ . If each train 25% tree motality and or disease present ⁰ . If each train 25% tree motality and or disease present ⁰ . If each train 25% tree motality and or disease present ⁰ . If each train 25% tree motality and or disease present ⁰ . Vegetation and ground layer present, strongly characterise by ancient woodland fora specialists. Recognisable woodland NVC plant community ⁰ at ground layer present. No recognisable woodland NVC plant community ⁰ at ground layer present. If each train 25% woodland NVC plant community ⁰ at ground layer present. If each train 25% woodland NVC plant community ⁰ at ground layer present. If each train 25% woodland NVC plant community ⁰ at ground layer present. If each train 25% woodland NVC plant community ⁰ at ground layer present. If each train 25% woodland parcel have deadwood, usch as standing deadwood, large dead branches and or stems, branch stubs and stumps, or an abundance of small cavities ¹³ . Between 25% and stumps, or an abundance of small cavities ¹³ . If each train 25% 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 . If each train 25% woodland area hav deadwood, large dead branches and or stems, branch stubs and stumps, or an abundance of small cavities ¹³ . If each train 25% woodland area and stumps, or an abundance of small cavities ¹³ . If each train 25% woodland area and stumps, or an abundance of small cavities ¹³ . If each train 25% woodland area and stumps, or an abundance of small cavities ¹³ . If each train 25% woodland area hav damag	Tree health If em ontaility dess disease and no crown dieback ⁰ . montaily and or ownisk pest or disease present ⁰ . Greater than 25% dree montaily and or disease present ⁰ . Image: Second S	Tree healthIf end Tolk, no best or crown diseases and no crown disback of disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Greater than 25% cere mortality and or any high-risk pest or disease present!Core mortality and or and dispresent.Core mortal	Iree nealth Iree notality ess or diseases and no sigma 10%, no resonable to works pest or diverses personable to works pest or disease present? Image: Creater than 20%, or diseaser present? Image: Crea	Tree health Tree ontaily desk of diseases and no conso disease present? Greater fan 20%, no variety pest or one which heads of disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? Set on the montaily and or any high-take pest or disease present? 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Parcel B - management of scrub layer key to further increase woodland understory

GENERAL INFORMATION

ID	Workspace	Project		Team	Recorded: Date	1	Recorded: Time
92a80607-7923-409c-97d0-	•	-	ion Assessmer		23/05/2023		14:00
6b4844a0-ced7-4360-b388-	•		ion Assessmer		23/05/2023		13:30
e8780b08-f90a-44e9-ac17-k	•		ion Assessmer		23/05/2023		13:00
fbb69521-350e-471d-919d-	•		ion Assessmer		23/05/2023		12:30
aba712f2-95b7-451e-86bd-l	•		ion Assessmer	-	23/05/2023		12:00
GENERAL INFORMATION			10117(3563511161		23/03/2023		12.00
Surveyor: ID	Surveyor: Screen Name	Status		River	Reach		Subreach
f9895298-05dc-41fe-b393-6	EPhilip Ames	Draft		Great Stour	River East Stour	I	East Stour
f9895298-05dc-41fe-b393-6	EPhilip Ames	Draft		Great Stour	River East Stour	[East Stour
f9895298-05dc-41fe-b393-6	EPhilip Ames	Draft		Great Stour	River East Stour	[East Stour
f9895298-05dc-41fe-b393-6	EPhilip Ames	Draft		Great Stour	River East Stour	I	East Stour
f9895298-05dc-41fe-b393-6	EPhilip Ames	Draft		Great Stour	River East Stour	I	East Stour
GENERAL INFORMATION							
Module	Project Name	MoRPh Corr	elation Code	WFD Waterbody ID	SurveyType	I	Riverfly Site?
	Project Name 5535	MoRPh Corr Bank Farm	elation Code	WFD Waterbody ID	SurveyType Pre-project	I	Riverfly Site? FALSE
5	•		elation Code	WFD Waterbody ID		I	
5	5535	Bank Farm	elation Code	WFD Waterbody ID	Pre-project	I	FALSE
5 4 3	5535 5535	Bank Farm Bank Farm	elation Code	WFD Waterbody ID	Pre-project Pre-project	I	FALSE FALSE
5 4 3 2	5535 5535 5535	Bank Farm Bank Farm Bank Farm	elation Code	WFD Waterbody ID	Pre-project Pre-project Pre-project	I	FALSE FALSE FALSE
5 4 3 2	5535 5535 5535 5535	Bank Farm Bank Farm Bank Farm Bank Farm	elation Code	WFD Waterbody ID	Pre-project Pre-project Pre-project Pre-project	I	FALSE FALSE FALSE FALSE
5 4 3 2 1	5535 5535 5535 5535	Bank Farm Bank Farm Bank Farm Bank Farm	elation Code	WFD Waterbody ID	Pre-project Pre-project Pre-project Pre-project		FALSE FALSE FALSE FALSE
5 4 3 2 1	5535 5535 5535 5535	Bank Farm Bank Farm Bank Farm Bank Farm		WFD Waterbody ID Midpoint Location:	Pre-project Pre-project Pre-project Pre-project Pre-project	I	FALSE FALSE FALSE FALSE FALSE
5 4 3 2 1	5535 5535 5535 5535	Bank Farm Bank Farm Bank Farm Bank Farm Bank Farm			Pre-project Pre-project Pre-project Pre-project Pre-project	1 n: 1	FALSE FALSE FALSE FALSE FALSE Midpoint
5 4 3 2 1 GENERAL INFORMATION	5535 5535 5535 5535 5535 5535	Bank Farm Bank Farm Bank Farm Bank Farm Midpoint Loc Latitude		Midpoint Location:	Pre-project Pre-project Pre-project Pre-project Pre-project Midpoint Location Easting	1 n: 1	FALSE FALSE FALSE FALSE FALSE Midpoint Location:
5 4 3 2 1 GENERAL INFORMATION	5535 5535 5535 5535 5535 5535 Module Length	Bank Farm Bank Farm Bank Farm Bank Farm Midpoint Lo Latitude	cation:	Midpoint Location: Longitude	Pre-project Pre-project Pre-project Pre-project Pre-project Midpoint Location Easting	1 1: 1	FALSE FALSE FALSE FALSE FALSE Midpoint Location: Northing
5 4 3 2 1 GENERAL INFORMATION	5535 5535 5535 5535 5535 5535 Module Length	Bank Farm Bank Farm Bank Farm Bank Farm Midpoint Lo Latitude	cation: 51.10610709	Midpoint Location: Longitude 0.940375465	Pre-project Pre-project Pre-project Pre-project Pre-project Midpoint Location Easting	1 1: 1 505937	FALSE FALSE FALSE FALSE FALSE Midpoint Location: Northing 138202
5 4 3 2 1 GENERAL INFORMATION	5535 5535 5535 5535 5535 Module Length 20 20	Bank Farm Bank Farm Bank Farm Bank Farm Midpoint Lo Latitude	cation: 51.10610709 51.10431749	Midpoint Location: Longitude 0.940375465 0.944781507 0.9485231	Pre-project Pre-project Pre-project Pre-project Pre-project Midpoint Location Easting	1: 1: 505937 506254	FALSE FALSE FALSE FALSE FALSE Midpoint Location: Northing 138202 138015
5 4 3 2 1 GENERAL INFORMATION	5535 5535 5535 5535 5535 Module Length 20 20 20	Bank Farm Bank Farm Bank Farm Bank Farm Midpoint Lo Latitude	cation: 51.10610709 51.10431749 51.10514616	Midpoint Location: Longitude 0.940375465 0.944781507 0.9485231	Pre-project Pre-project Pre-project Pre-project Pre-project Midpoint Location Easting	1: 505937 506254 506512	FALSE FALSE FALSE FALSE FALSE Midpoint Location: Northing 138202 138015 138118

GENERAL INFORMATION	J					
Midpoint Location: NGR	Survey Bank	Bed Visible	Adverse Condition	ons?		
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	N					
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

							Surveyor: Screen	
ID	Workspace	Project	Team	Recorded: Date	Recorded: Time	Surveyor: ID	Name	
92a8060	7- Lloyd Bore	River Condition Assessment		23/05/2023	14:00	f9895298-05dc-42	Lfe Philip Ames	
6b4844a	0-(Lloyd Bore	River Condition Assessment		23/05/2023	13:30	f9895298-05dc-42	Lfe Philip Ames	
e8780b0	8-i Lloyd Bore	River Condition Assessment		23/05/2023	13:00	f9895298-05dc-42	Lfe Philip Ames	
fbb6952	1-ELloyd Bore	River Condition Assessment		23/05/2023	12:30	f9895298-05dc-42	Lfe Philip Ames	
aba712f	2-9 Lloyd Bore	River Condition Assessment		23/05/2023	12:00	f9895298-05dc-42	Lfe Philip Ames	
CALCULA	ATIONS							
						INDEX 1: Number	INDEX 2: Highest	
Module	Status	River	Reach	Subreach	Module	of flow types	energy flow type	
	5 Draft	Great Stour	River East Stour	East Stour	5	5	1 Rippled	
	4 Draft	Great Stour	River East Stour	East Stour	2	ļ	1 Rippled	
	3 Draft	Great Stour	River East Stour	East Stour	3	3	1 Smooth	
	2 Draft	Great Stour	River East Stour	East Stour	2	2	1 Smooth	
	1 Draft	Great Stour	River East Stour	East Stour	1	L	1 Smooth	
CALCUL	ATIONS							
				INDEX 6:			INDEX 9: Number	
		INDEX 4: Coarsest	INDEX 5: Average	Average alluvial	INDEX 7: Extent	INDEX 8: Channel	of aquatic	
	INDEX 3: Number o	f present/extensive bed	alluvial bed material	bed material	of superficial	physical habitat	vegetation	
Module	bed material types	material type	size (phi units)	size class	bed siltation	complexity	morphotypes	
	5	1 Gravel-Pebble	-3.5	Gravel-Pebble	(0.83333333	33 3	3
	4	3 Cobble	-0.166666667	' Sand	(1.66666666	67 (0
	3	2 Sand	3.377906977	Sand	() 1.2	25 2	2
	2	2 Clay	10	Clay	(1.66666666	57 4	4
	1	2 Clay	10	Clay	C) 1.2	25 3	3

CALCULATIONS

CALCULATIONS

Surveyor: Screen

	INDEX 10: Riparian	INDEX 11: Riparian	INDEX 12: Human	INDEX 13:	INDEX 14: Nor	۱-
	physical habitat	vegetation structural	pressure imposed by	Channel	native invasive	e
Module	complexity	complexity	bank top land cover	reinforcement	plant extent	
5	1.666666667		2	0	0	0
4	1 .833333333	2	2.5	6	0	0
3	3 2.5	Δ	4.5	6	0	0
2	2 2.083333333		3	0	0	0
1	L 2.916666667		3	0	0	0

BANK TOP

1

Survoyor: So

Trace

							Surveyor: Screen
Module	Workspace	Project	Team	Recorded: Date	Recorded: Time	Surveyor: ID	Name
	5 Lloyd Bore	River Condition Assessn	nent	23/05/2023	14:00	f9895298-05dc-41f	Philip Ames
	4 Lloyd Bore	River Condition Assessn	nent			f9895298-05dc-41fePhilip Ames f9895298-05dc-41fePhilip Ames	
	3 Lloyd Bore	River Condition Assessn	nent				
	2 Lloyd Bore	River Condition Assessn	nent	23/05/2023	12:30	f9895298-05dc-41f	Philip Ames
	1 Lloyd Bore	River Condition Assessn	nent	23/05/2023	12:00	f9895298-05dc-41f	Philip Ames
BANK TO)P						
						Artificial Ground	Artificial Ground
						Cover: Dominant	Cover: Dominant
						Artificial Ground	Artificial Ground
						Cover: Abundance:	Cover: Abundance:
Module	Status	River	Reach	Subreach	Module	Left Bank	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
BANK TO							
2/							
			Artificial Ground			Artificial Ground	
	Artificial Ground		Cover:	Artificial Ground	Artificial Ground	Cover:	Terrestrial
	Cover: Dominant	Artificial Ground Cover:		Cover: Subdominant	Cover: Subdominant		Vegetation:
	Artificial Ground	Dominant Artificial	Artificial Ground	Artificial Ground	Artificial Ground	Artificial Ground	Unvegetated:
	Cover: Code: Left	Ground Cover: Code:		Cover: Abundance:	Cover: Code: Left	Cover: Code: Right	-
Module	Bank	Right Bank	Left Bank	Right Bank	Bank	Bank	Bank
module	5	hight bank	Absent	Absent	bank	bunk	Absent
		Arable agriculture / allo		Absent			Trace
	-	Arable agriculture / allo		Absent			Absent
	2	and a she as real tare / and	Absent	Absent			Absent
	-		A WOULD				Absent

Absent

Absent

BANK TOP

Terrestrial Vegetation: Unvegetated: Abundance: Right Bank 5 Absent 4 Trace 3 Absent 2 Trace	Terrestrial Vegetation: Mosses / lichens: Abundance: Left Bank Absent Absent Absent Absent	Terrestrial Vegetation: Mosses / lichens: Abundance: Right Bank Absent Absent Absent Absent	Terrestrial Vegetation: Short Herbs / Grasses: Abundance: Left Bank Trace Trace Absent Present	Terrestrial Vegetation: Short Herbs / Grasses: Abundance: Right Bank Absent Trace Absent Present	Terrestrial Vegetation: Tall Herbs / Grasses: Abundance: Left Bank Extensive Extensive Extensive Extensive	Terrestrial Vegetation: Tall Herbs / Grasses: Abundance: Right Bank Extensive Extensive Extensive Extensive Present
	Absent	Absent	Present	Present	Extensive	Extensive
)P		To una otoi ol			Townsetwist	
Toursotsial			Touroatuial	Torrestrial		Touroatrial
	Torrostrial Vagatation:	•			•	Terrestrial Vegetation: Fallen
•	•		a 1 a	• •	•	Trees: Abundance:
	•		•			Left Bank
	-		•			Absent
						Absent
						Absent
						Absent
						Absent
	Absent	Absent	Thee	Absent	Absent	Absent
		Terrestrial	Terrestrial Vegetation: Trailing	Terrestrial Vegetation: Trailing	Townstaid	Townstrial
Vegetation: Fallen Trees: Abundance: Right Bank 5 Absent 4 Absent	Terrestrial Vegetation: J-Shaped Trees: Abundance: Left Bank Absent Absent	Shaped Trees: Abundance: Right Bank Absent Absent	Branches: Abundance: Left Bank Absent Absent	Branches: Abundance: Right Bank Absent Absent	Vegetation: Large Wood: Abundance: Left Bank Absent Absent	Terrestrial Vegetation: Large Wood: Abundance: Right Bank Absent Absent Absent
	Vegetation: Unvegetated: Abundance: Right Bank 5 Absent 4 Trace 3 Absent 2 Trace 1 Trace 1 Trace 7 Vegetation: Scrub / Shrubs: Abundance: Left Bank 5 Absent 4 Absent 3 Present 2 Absent 1 Trace 9 Vegetation: Scrub / Shrubs: Abundance: Left Bank 5 Absent 4 Absent 3 Present 2 Absent 1 Trace 9 Vegetation: Fallen Trees: Abundance: Right Bank 5 Absent	Vegetation:Terrestrial Vegetation:Unvegetated:Terrestrial Vegetation:Abundance: RightMosses / lichens:BankAbundance: Left Bank5 AbsentAbsent4 TraceAbsent3 AbsentAbsent1 TraceAbsent1 TraceAbsent9 Vegetation: Scrub /Terrestrial Vegetation:1 TraceAbsent9 Vegetation: Scrub /Scrub / Shrubs:1 Left BankAbsent4 AbsentAbsent3 PresentAbsent4 AbsentAbsent3 PresentAbsent4 AbsentAbsent1 TraceAbsent3 PresentAbsent4 AbsentAbsent5 AbsentAbsent6 AbsentAbsent7 TerrestrialVegetation: Fallen7 TerrestrialTerrestrial Vegetation:8 AbsentAbsent9 PresentAbsent9 PresentAbsent1 TraceAbsent1 TraceAbsent1 TraceAbsent1 TraceAbsent2 AbsentAbsent3 PresentAbsent4 AbsentAbsent	Vegetation:Vegetation:Vegetation:Unvegetated:Terrestrial Vegetation:Mosses / lichens:Abundance: RightMosses / lichens:Abundance: RightBankAbundance: Left BankAbsentTraceAbsentAbsentAbsentAbsentAbsentTraceAbsentAbsentTraceAbsentAbsentTraceAbsentAbsentTraceAbsentAbsentTraceAbsentAbsentTerrestrialVegetation: Scrub / Shrubs:Saplings / Trees:Shrubs: Abundance:Scrub / Shrubs:Saplings / Trees:Shrubs: Abundance:Scrub / Shrubs:AbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentTraceAbsentAbsentAbsentAbsentAbsentAbsentAbsentAbsentTraceAbsentAbsentAbsentAbsentAbsentTraceAbsentAbsentAbsentAbsentAbsentTraceAbsent<	Vegetation:Vegetation:Vegetation:Vegetation:Vegetation:Nosses / lichens:Herbs / Grasses:Abundance: RightMosses / lichens:Abundance: RightAbundance: LeftBankBankBankJakaAbsentAbsentBankBankTraceJasentAbsentAbsentAbsentTraceJasentAbsentAbsentAbsentAbsentJraceAbsentAbsentAbsentPresentJraceAbsentAbsentPresentAbsentJraceAbsentAbsentPresentJraceAbsentAbsentPresentJraceAbsentAbsentPresentJraceAbsentAbsentPresentJraceAbsentAbsentPresentJraceJerrestrialVegetation: Scrub / Strubs:Saplings / Trees:Shubs: Abundance:Scrub / Shrubs:Abundance: LeftJasentAbsentAbsentAbsentJasentAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJraceAbsentAbsentAbsentJrace <t< th=""><th>Vegetation:Vegetation:Vegetation:Vegetation:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:</th></t<> <th>Vegetation:Vegetation:Vegetation:Vegetation: ShorVegetation: ShorVegetation: ShorVegetation: ShorVegetation: ShorVegetation: ShorHerbs / Grasses:Herbs / Grasses:</th>	Vegetation:Vegetation:Vegetation:Vegetation:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:Vegetation:Solution:	Vegetation:Vegetation:Vegetation:Vegetation: ShorVegetation: ShorVegetation: ShorVegetation: ShorVegetation: ShorVegetation: ShorHerbs / Grasses:Herbs / Grasses:

	2 Absent 1 Absent	Absent Absent	Absent Absent	Absent Absent	Absent Absent	Absent Absent	Absent Absent
ΒΑΝΚ ΤΟ	Р						
	Terrestrial Vegetation: Predominant Tree Type: Code: Left Bank 5 Absent 4 Absent 3 Deciduous 2 Absent	Terrestrial Vegetation: Predominant Tree Type: Code: Right Bank Absent Absent Deciduous Absent	Nuisance Plant Species: Himalayan Balsam: Abundance: Left Bank Absent Absent Absent Absent Absent	Nuisance Plant Species: Himalayan Balsam: Abundance: Right Bank Absent Absent Absent Absent Absent	Nuisance Plant Species: Japanese Knotweed: Abundance: Left Bank Absent Absent Absent Absent Absent	Nuisance Plant Species: Japanese Knotweed: Abundance: Right Bank Absent Absent Absent Absent Absent	
	1 Absent	Deciduous	Absent	Absent	Absent	Absent	
BANK TO	Ρ						
	Nuisance Plant Species: Giant Hogweed: Abundance: Left Bank 5 Absent 4 Absent 3 Absent 2 Absent 1 Absent P	Nuisance Plant Species: Giant Hogweed: Abundance: Right Bank Absent Absent Absent Absent Absent	Abundance: Left	Nuisance Plant Species: Floating Pennywort: Abundance: Right Bank Absent Absent Absent Absent Absent Absent	Nuisance Plant Species: Other Species 1: Abundance: Left Bank Absent Absent Absent Absent Absent	Nuisance Plant Species: Other Species 1: Abundance: Right Bank Absent Absent Absent Absent Absent Absent	Nuisance Plant Species: Other Species 1: Code: Left Bank
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 4 3 2	Absent Absent Absent Absent	Absent Absent Absent Absent			Absent Absent Absent Absent	Absent Absent Absent Absent
ΒΑΝΚ ΤΟ	1)P	Absent	Absent			Absent	Absent
Module	Water Related Features: Connected Pond: Abundance: Left Bank 5 Absent 4 Absent 3 Absent 2 Absent	Water Related Features: Connected Pond: Abundance: Right Bank Absent Absent Absent Absent	Water Related Features: Side Channel: Abundance: Left Bank Absent Absent Absent Absent Absent	Water Related Features: Side Channel: Abundance: Right Bank Absent Absent Absent Absent Absent	Water Related Features: Short Non Woody Wetland: Abundance: Left Bank Absent Absent Absent Absent Absent	Water Related Features: Short Non Woody Wetland: Abundance: Right Bank Absent Absent Absent Absent Absent	Water Related Features: Tall Non Woody Wetland: Abundance: Left Bank Absent Absent Absent Trace
	1 Absent	Absent	Absent	Absent	Absent	Absent	Present

BANK TOP

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

				Recorded:	Recorded:		Surveyor: Screen		
ID	Workspace	Project	Team	Date	Time	Surveyor: ID	Name	Status	River
92a80	607- Lloyd Bore	River Condit	ion Assessment	23/05/2023	14:00	f9895298-05dc	- Philip Ames	Draft	Great Stour
6b484	4a0-(Lloyd Bore	River Condit	ion Assessment	23/05/2023	13:30	f9895298-05dc	- Philip Ames	Draft	Great Stour
e8780	b08-iLloyd Bore	River Condit	ion Assessment	23/05/2023	13:00	f9895298-05dc	- Philip Ames	Draft	Great Stour
fbb69	521-ELloyd Bore	River Condit	ion Assessment	23/05/2023	12:30	f9895298-05dc	- Philip Ames	Draft	Great Stour
aba71	2f2-9Lloyd Bore	River Condit	ion Assessment	23/05/2023	12:00	f9895298-05dc	- Philip Ames	Draft	Great Stour
BANK	FACE								
				Profile:			Profile:		Profile:

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

BANK FACE

Module Reach

5 River East Stour
4 River East Stour
3 River East Stour
2 River East Stour
1 River East Stour

					Natural	Natural	Natural	Natural	
				Profile:	Materials:	Materials:	Materials:	Materials:	
		Profile:		Subdomina	Dominant	Dominant	Dominant	Dominant	Reinforceme
		Subdominant	Profile:	nt Bank	Upper Bank	Upper Bank	Lower Bank	Lower Bank	nt: Vertical
	Profile: Subdominant	Bank Profile:	Subdominant	Profile:	Sediment Size:	Sediment Size:	Sediment	Sediment Size:	Extent:
	Bank Profile:	Abundance:	Bank Profile:	Code: Right	Code: Left	Code: Right	Size: Code:	Code: Right	Abundance:
Module	Abundance: Left Bank	Right Bank	Code: Left Bank	Bank	Bank	Bank	Left Bank	Bank	Left Bank
	5 Absent	Absent			Earth (i.e. mixe	Earth (i.e. mixed	d, mainly san	d 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	e. m Earth (i.e. mi	ke Absent
1 Absent	Absent		Earth (i.e. mixe: Earth (i.e. mixec Earth (i.e	e. m Earth (i.e. mi	ke Absent
BANK FACE					

		Natural				Natural	Natural
		Materials:		Profile:		Materials:	Materials:
		Dominant		Subdomina	Profile:	Dominant	Dominant
	Natural Materials:	Lower Bank	Reinforcement:	nt Bank	Subdominant	Upper Bank	Upper Bank
	Dominant Lower	Sediment Size:	Vertical Extent:	Profile:	Bank Profile:	Sediment Size:	Sediment
	Bank Sediment Size:	Code: Right	Abundance: Left	Code: Left	Code: Right	Code: Left	Size: Code:
Module	Code: Left Bank	Bank	Bank	Bank	Bank	Bank	Right Bank
	5		Absent			Earth (i.e. mixe	c Earth (i.e. mixed, mainly sand and finer)
	4		Absent	Steep (> 45	degrees)	Earth (i.e. mixe	c Earth (i.e. mixed, mainly sand and finer)
	3 Clay	Clay	Absent			Earth (i.e. mixe	c Earth (i.e. mixed, mainly sand and finer)
	2 Earth (i.e. mixed, mai	n Earth (i.e. mixec	l, Absent			Earth (i.e. mixe	c Earth (i.e. mixed, mainly sand and finer)
	1 Earth (i.e. mixed, mai	n Earth (i.e. mixeo	l, Absent			Earth (i.e. mixe	c Earth (i.e. mixed, mainly sand and finer)
BANK FA	CE						

		Natural Materials: Dominant		Reinforcem	Reinforcement	Reinforcement	Natural Physical Features:	Natural Physical Features:	Natural Physical Features:
	Natural Materials:	Lower Bank	Reinforcement:	ent: Vertical	: Horizontal	: Horizontal	Unvegetate	Unvegetated	Unvegetated
	Dominant Lower	Sediment Size:	Vertical Extent:	Extent:	Extent:	Extent:	d Side Bar:	Side Bar:	Side Bar:
	Bank Sediment Size:	Code: Right	Abundance: Left	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:	Code: Left
Module	Code: Left Bank	Bank	Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank	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 1 Earth (i.e. mixed, main	-		Absent Absent	Absent Absent	Absent Absent	Absent Absent	Absent Absent	
ВА	ANK FAC	LE			Natural Physical	Natural	Natural	Natural	Natural	Natural
			Natural Physical	Natural Physical	Features:	Physical	Physical	Physical	Physical	Physical
		Natural Physical	Features:	Features:	Vegetated	Features:	Features:	Features:	Features:	Features:
		Features:	Vegetated Side	Vegetated Side	Side Bar:	Vegetated Side		Berm:	Bench:	Bench:
		Unvegetated Side	0	Bar: Abundance:	Code: Left	Bar: Code:	Abundance:		Abundance:	Abundance:
м	odule	Bar: Code: Right Bank		Right Bank	Bank	Right Bank	Left Bank	Right Bank		Right Bank
		5	Absent	Absent	20111		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
BA	NK FAC	CE								
					Natural	Natural	Natural	Natural	Natural	Natural
			•	Natural Physical	Physical	Physical	Physical	Physical	Physical	Physical
		Natural Physical	Features:	Features:	Features:	Features:	Features:	Features:	Features:	Features:
		Features: Vegetated	Vegetated Side	Vegetated Side	Berm:	Berm:	Bench:	Bench:	Stable Cliff:	Stable Cliff:
		Side Bar: Abundance:	Bar: Code: Left	Bar: Code: Right	Abundance:	Abundance:	Abundance:		Abundance:	Abundance:
M	odule	Right Bank	Bank	Bank	Left Bank	Right Bank	Left Bank	Right Bank		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
BA	ANK FAC	ÜE								

2 3 2	Natural Physical Features: Eroding Cliff: Abundance: Left Bank Absent Absent Absent Absent Absent Absent Absent	Natural Physical Features: Eroding Cliff: Abundance: Right Bank Absent Absent Absent Absent Absent Absent	Natural Physical Features: Toe: Abundance: Left Bank Absent Absent Absent Absent Absent Absent	Natural Physical Features: Toe: Abundance: Right Bank Absent Absent Absent Absent Absent Absent	Natural Physical Features: Animal Burrows: Abundance: Left Bank Absent Absent Absent Absent Absent Absent	Natural Physical Features: Animal Burrows: Abundance: Right Bank Absent Absent Absent Absent Absent Absent	Natural Physical Features: Marginal Backwater: Abundance: Left Bank Absent Absent Absent Absent Absent Absent	Natural Physical Features: Marginal Backwater: Abundance: Right Bank Absent Absent Absent Absent Absent	Natural Physical Features: Tributary Confluence: Abundance: Left Bank 0 0 0 0 0 0 0
Module 2 2 2	1 3 2	Artificial Features: Pipes / Outfalls: Abundance: Left Bank 0 (0 0 (0 0 (0 0 (0 0 (0))	Right Bank 0) 0) 0) 0) 0) 0) 0	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

							Terrestrial	Terrestrial	Terrestrial
				Artificial	Terrestrial	Terrestrial	Vegetation:	Vegetation:	Vegetation:
		Artificial		Features:	Vegetation:	Vegetation:	Mosses /	Mosses /	Short Herbs
	Artificial Features:	Features: Other:	Artificial	Other:	Unvegetated:	Unvegetated:	lichens:	lichens:	/ Grasses:
	Other: Abundance:	Abundance:	Features: Other:	Code: Right	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:
Module	Left Bank	Right Bank	Code: Left Bank	Bank	Left Bank	Right Bank	Left Bank	Right Bank	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 FAC	CE								

				Terrestrial		Terrestrial	Terrestrial		
	Terrestrial	Terrestrial	Terrestrial	Vegetation:	Terrestrial	Vegetation:	Vegetation:	Terrestrial	Terrestrial
	Vegetation: Short	Vegetation: Tall	Vegetation: Tall	Scrub /	Vegetation:	Saplings /	Saplings /	Vegetation:	Vegetation:
	Herbs / Grasses:	Herbs / Grasses:	Herbs / Grasses:	Shrubs:	Scrub / Shrubs:	Trees:	Trees:	Large Wood:	Large Wood:
	Abundance: Right	Abundance: Left	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:
Module	Bank	Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	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

Madula	Terrestrial Vegetation: Fallen Trees: Abundance: Left Bank	Terrestrial Vegetation: Fallen Trees: Abundance:	Terrestrial Vegetation: Leaning Trees: Abundance: Left		Vegetation: JShaped Trees: Abundance:	Terrestrial Vegetation: JShaped Trees: Abundance:	Terrestrial Vegetation: Trailing Tree / Shrub Branches: Abundance: Left Bank	Vegetation: Trailing Tree / Shrub Branches: Abundance:	Terrestrial Vegetation: Exposed Tree Roots: Abundance: Left Bank
Module		Right Bank	Bank	Right Bank	Left Bank	Right Bank		Right 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

									Vegetation
				Vegetation			Vegetation		at Water
				at Water	Vegetation at		at Water	Vegetation at	Margin:
		Terrestrial	Terrestrial	Margin:	Water Margin:	Vegetation at	Margin:	Water Margin:	Emergent
	Terrestrial	Vegetation:	Vegetation:	Liverworts /	Liverworts /	Water Margin:	Emergent	Emergent	Reeds /
	Vegetation: Exposed	Discrete Organic	Discrete Organic	Mosses /	Mosses /	Emergent	Broad	Reeds / Linear	Linear
	Tree Roots:	Accumulations:	Accumulations:	Lichens:	Lichens:	Broad Leaved:	Leaved:	Leaved:	Leaved:
	Abundance: Right	Abundance: Left	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:
Module	Bank	Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank	Left Bank	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 FA	NCE								

			Vegetation at	Vegetation at Water	Nuisance Plant	Nuisance Plant	Nuisance Plant	Nuisance Plant	Nuisance Plant
		Vegetation at	Water Margin:	Margin:	Species:	Species:	Species:	Species:	Species:
		Water Margin:	Filamentous	Filamentous	Himalayan	Himalayan	Japanese	Japanese	Giant
	Vegetation at Water	Amphibious:	Algae:	Algae:	Balsam:	Balsam:	Knotweed:	Knotweed:	Hogweed:
	Margin: Amphibious:	Abundance:	Abundance: Left	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:
Module	Abundance: Left Bank	Right Bank	Bank	Right Bank	Left Bank	Right Bank	Left Bank	Right Bank	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

				Nuisance			Nuisance		Nuisance
		Nuisance Plant		Plant			Plant		Plant
	Nuisance Plant	Species:	Nuisance Plant	Species:	Nuisance Plant	Nuisance Plant	Species:	Nuisance Plant	Species:
	Species: Giant	Floating	Species: Floating	Other	Species: Other	Species: Other	Other	Species: Other	Other
	Hogweed:	Pennywort:	Pennywort:	Species 1:	Species 1:	Species 1:	Species 1:	Species 2:	Species 2:
	Abundance: Right	Abundance: Left	Abundance:	Abundance:	Abundance:	Code: Left	Code: Right	Abundance:	Abundance:
Module	Bank	Bank	Right Bank	Left Bank	Right Bank	Bank	Bank	Left Bank	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 FA	CE								

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

CHANNEL BED

CHAININEL	. DED						
Module	Workspace	Project	Team	Recorded: Date	Recorded: Tim	n Surveyor: ID	
	5 Lloyd Bore	River Condition Assessment		23/05/2023	14:00	f9895298-05dc-41fe-b3	9 3
	4 Lloyd Bore	River Condition Assessment		23/05/2023	13:30	f9895298-05dc-41fe-b3	89 3
	3 Lloyd Bore	River Condition Assessment		23/05/2023	13:00	f9895298-05dc-41fe-b3	9 3
	2 Lloyd Bore	River Condition Assessment		23/05/2023	12:30	f9895298-05dc-41fe-b3	9 3
	1 Lloyd Bore	River Condition Assessment		23/05/2023	12:00	f9895298-05dc-41fe-b3	9 3
CHANNEL	BED						
ID	Surveyor: Screen Na	arStatus	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						
					Natural		
	Natural Materials:			Natural Materials:	Materials:		
	Bedrock:	Natural Materials: Boulder:	Natural Materials:	Gravel-Pebble:	Sand:	Surface Flow Type:	
Module	Abundance	Abundance	Cobble: Abundance	Abundance	Abundance	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						
					Natural		
					Physical		
					Features:		
				Natural Physical	Exposed		
	Surface Flow Type:			Features: Exposed	-	Natural Physical	
	Smooth:	Surface Flow Type: No	Surface Flow Type:	Bedrock:	Rocks:	Features: Pool:	
Module	Abundance	Perceptible Flow: Abundance	Dry: Abundance	Abundance	Abundance	Abundance	

CHANNEI	 5 Absent 4 Absent 3 Extensive 2 Extensive 1 Extensive 	Absent Absent Absent Absent Absent	Absent Absent Absent Absent Absent	Absent Absent Absent Absent Absent	Absent Absent Absent Absent Absent	0 0 0 0 0
Module	Natural Physical Features: Exposed Vegetated Rocks: Abundance 5 Absent 4 Absent 3 Absent 2 Absent 1 Absent	Natural Physical Features: Unvegetated Mid-Channel Bar: Abundance Absent Absent Absent Absent Absent	Natural Physical Features: Unvegetated Mid- Channel Bar: Code	Natural Physical Features: Vegetated Mid- Channel Bar: Abundance Absent Absent Absent Absent Absent Absent	Natural Physical Features: Vegetated Mid-Channel Bar: Code	Natural Physical Features: Island: Abundance Absent Absent Absent Absent Absent
CHANNEI	Natural Physical Features: Cascade: Abundance 5 Absent 4 Absent 3 Absent 2 Absent 1 Absent	Natural Physical Features: Pool: Abundance	Natural Physical Features: Riffle: Abundance 0 0 0 0	Natural Physical Features: Step: Abundance 0 0 1 1 0	0 0 0 0 0 0	Artificial Features: Large Trash: Abundance O Absent O Absent O Absent O Absent O Absent O Absent

CHANNEL BED

Module	Artificial Features: Major Weir: Abundance 5 4 3 2 1	Artificial Features: Intermediate Weir: Abundance 0 0 0 0	0 0 0 0 0				Artificial Features: Bridge Shadow: Abundance D D D D Narrow	
CHANNEL	BED							
Module	5 4 3 2 1	InChannel Vegetation: Unvegetated (bare river e bed): Abundance 0 Absent 0 Absent 0 Extensive 0 Present 0 Present		InChannel Vegetation: Liverworts / Mosse / Lichens (Terrestria & Aquatic): Abundance Absent Absent Absent Absent Absent Absent	s al	•	InChannel Vegetation: Emergent Reeds / Linear Leaved: Abundance Present Absent Extensive Present Absent	InChannel Vegetation: Floating Leaved: Abundance Absent Absent Absent Trace Trace
Module	InChannel Vegetation: Free Floating: Abundance 5 Absent 4 Absent 3 Absent	InChannel Vegetation: Amphibious: Abundance Absent Absent Absent		InChannel Vegetation: Submerged Broad Leaved: Abundance Absent Absent Absent	2	InChannel Vegetation: Submerged Linear Leaved: Abundance Present Absent Trace	InChannel Vegetation: Submerged Fine Leaved: Abundance Absent Absent Absent	InChannel Vegetation: Filamentous Algae: Abundance Present Absent Present

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

CHANNEL BED

	InChar	nnel				Interacting	
	Vegeta	ation:		Interacting	Interacting	Vegetation:	
	Chann	el Choked	Interacting Vegetation: Short	Vegetation: Tall	Vegetation: Scrub	Saplings /	Interacting Vegetation:
	with A	quatic	/ Creeping Herbs / Grasses:	Herbs / Grasses:	/ Shrubs:	Trees:	Vegetation Shading
Module	Plants	?: Abundance	Abundance	Abundance	Abundance	Abundance	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

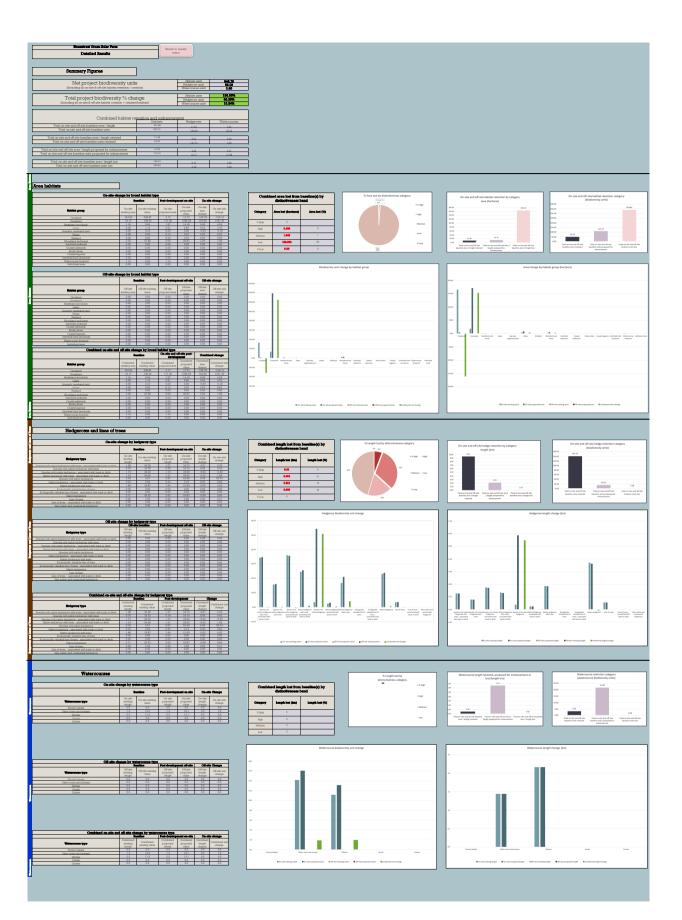
Module	Interacting Vegetation: Submerged Tree Roots: Abundance	Interacting Vegetation: Trees / Shrubs / Saplings Growing from Submerged River Bed: Abundance	Interacting Vegetation: Large Wood: Abundance	Interacting Vegetation: Discrete Organic Material: Abundance	Interacting Vegetation: Large Wood Dam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

CHANNEL BED

Madula		Nuisance Plant Species: Himalayan Balsam:	Nuisance Plant Species: Japanese Knotweed:	Nuisance Plant Species: Giant Hogweed:	Nuisance Plant Species: Floating Pennywort:	Nuisance Plant Species: Other Species 1:
Module	Fallen Tree: Abunda	r Abundance	Abundance	Abundance	Abundance	Abundance
	5	Absent	Absent	Absent	Absent	Absent
	4	Absent	Absent	Absent	Absent	Absent
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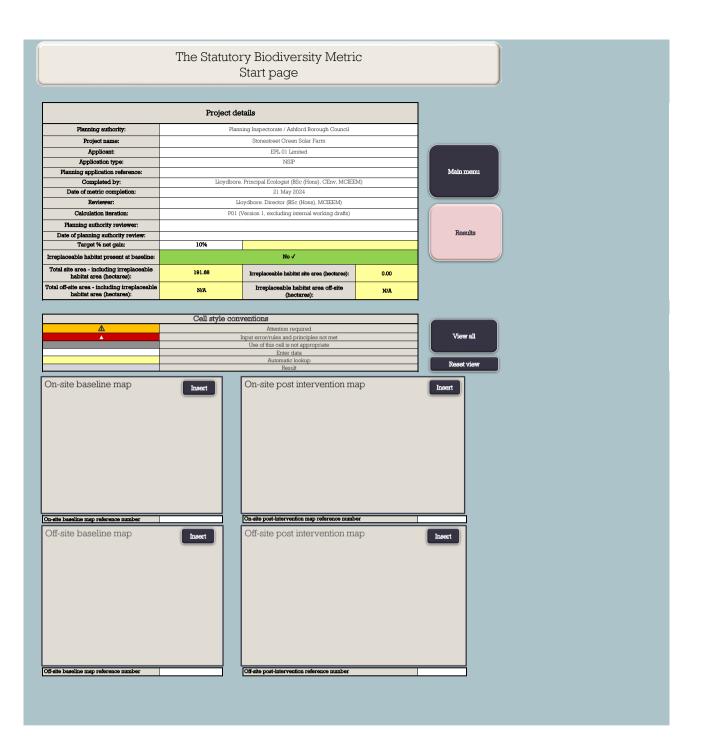


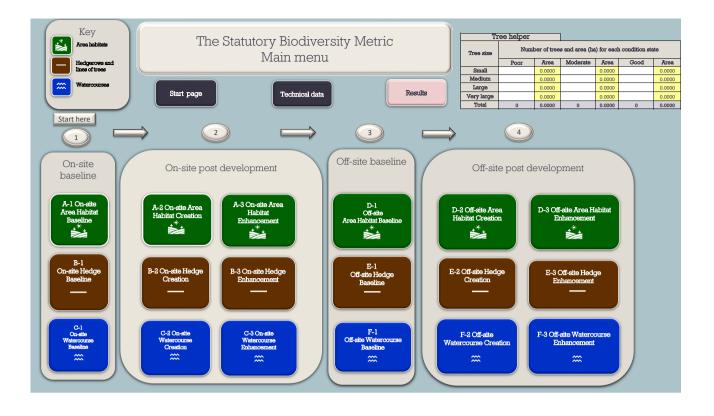
The Statutory Biodiversity Metric

Auditing and accounting for biodiversity



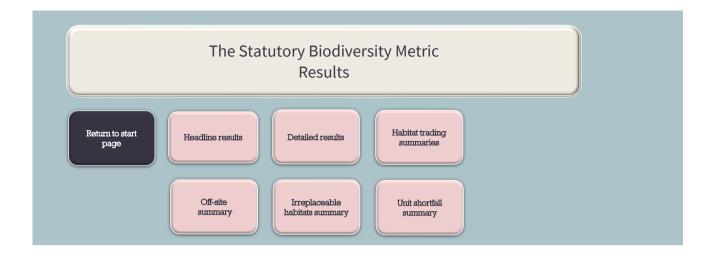






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Mathematical State Mathematical State Mathematical State		Comparison C		Nexes Meter Meter Septent Depted	Iver Restrict (0%) 0 0.0 0.0	Rido) Branching Arabido Mar Talo 1 cos 444	0.00	Rate 2 Rate 3 Rate 4 Rate 5 Bede 3 Resultation Percentiants After Table 3 C-55 2051	Benefitige ranges a second second Benefitige layer unceful a second second Benefitige layer unceful a second second Benefitige layer unceful a second Benefitige layer benefit Benefitige layer benefit Benefit layer benefit layer benefit Benefit layer benefit layer benefit Benefit layer benefit layer benefit Benefit layer benefit layer benefit layer benefit Benefit layer benefit layer b	et the loss of the

Tier	Unit Shortfall	
A1	0.00	
A2	0.00	
A3	4.96 🔺	
74	0.00	
A5	0.00	
Ħ	0.10	
Ŵ	0.00	



Headline Results			
	Habitat units	507.21	
On-site baseline	Hedgerow units	160.09	
	Watercourse units	25.33	
	Habitat units	1453.91	
On-site post-intervention	Hedgerow units	218.17	
(Including habitat retention, creation & enhancement)	Watercourse units	29.20	
	Habitat units	946.70	186.65%
On-site net change	Hedgerow units	58.08	36.28%
(units & percentage)	Watercourse units	3.86	15.24%
	Habitat units	0.00	
Off-site baseline	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site post-intervention	Habitat units	0.00	
(Including habitat retention, creation & enhancement)	Hedgerow units	0.00	
(monuting maximi recention, or entition of eminated methy)	Watercourse units	0.00	
Off-site net change	Habitat units	0.00	0.00%
(units & percentage)	Hedgerow units	0.00	0.00%
(unio a percendge)	Watercourse units	0.00	0.00%
	Habitat units	946.70	

	Habitat units	946.70
Combined net unit change	Hedgerow units	58.08
(Including all on-site & off-site habitat retention, creation & enhancement)	Watercourse units	3.86
	Habitat units	0.00
Spatial risk multiplier (SRM) deductions	Habitat units Hedgerow units	0.00

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

Unit Type	Target	Baseline Units	Units Required	Unit Deficit
Habitat units	10.00%	507.21	557.93	0.00
Hedgerow units	10.00%	160.09	176.10	0.00
Watercourse units	10.00%	25.33	27.87	0.00

No additional area habitat units required to meet target \checkmark No additional hedgerow units required to meet target \checkmark No additional watercourse units required to meet target \checkmark

Input errors/rule breaks present in metric \blacktriangle

p Trading Rule Trading SateSed?
Same habitat required - bespoke compensation option 🔬 Yes 🗸
Same habitat required = No 🔺
Same broad habitat or a higher distinctiveness habitat required (2) Yes 🗸
Same distinctiveness or better habitat required ≥ Yes ✓

s	Very High Distinctiveness								
J	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 mire[1] (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, day 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 Distinctivenes	ss Summary
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Remaining losses; Like for like not satisfied	0.00

High Distinctiveness Summary

High Distinctiveness						
Habitat group	Group	On-aite 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	1	
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 - Mari lakes	Lakos	0.00	0.00	0.00		
Lakes - Moderate alkalinity lakes	Lakos	0.00	0.00	0.00		
Lakes - Noter are attaining takes	Lakos	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	3.68	0.00	3.68		
Sparsely versetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00	~	
Sparsely vegeteed land - Coastal vegeteted shindle	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 - Unland 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 largoons - Coastal largoons	Coastal lagoons	0.00	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 share	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 sodiment	0.00	0.00	0.00		
Intertidal sediment - Littoral mixed sediments	Intertidal sodiment	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 sodiment	0.00	0.00	0.00		
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sodiment	0.00	0.00	0.00		
Intertidal sediment - Features of littoral sediment	Intertidal sodiment	0.00	0.00	0.00		
Intertidal sediment - Littoral muddy sand	Intertidal sodiment	0.00	0.00	0.00		
Intertidal sediment - Littoral seagrass	Intertidal sodiment	0.00	0.00	0.00		
		11.13	0.00	11.13	-2.68	

Medium Distinctiveness					
Habitat group	Group	On-site unit chance	Off-site unit chance	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 - Unland 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	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 churchwards	Urban	0.00	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	0.00
Individual trees - Rural tree	Individual trees	0.00	0.00	0.00	0.00
Woodland and forest - Other Scot's 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 - Litoral 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	
		1268.43	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 🗸						

Low D	Low Distinctiveness	Summa				
Habitat group	Group	On-site unit obance	Off-site unit change	Project wide unit change	Low Distinctiveness net change in units	-320.8
Cropland - Cereal crops	Cropland	-142.12	0.00	-142.12	Cumulative surplus of units	949.1
Cropland - Horticulture	Cropland	-58.46	0.00	-58.46 🛆		
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	4.59	0.00	4.59 🗸		
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 - Ruderal/ephemeral	Sparsely vegetated land	-0.18	0.00	-0.18		
Sparsely vegetated land - Tall forbs	Sparsely vegetated land	0.00	0.00	0.00		
Urban - Biogwale	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		
If than - Sustainable drainane 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 litoral 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 searcas	Intertidal sediment	0.00	0.00	0.00		
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00		
Interidal 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 buckhorn scrub	Heathland and shrub	0.00	0.00	0.00		
Treasant and an us - Other See Decement set up	rreadilatid and still up	-320.86		-320.88		

Return to results	Trading Summary						
menu	Distinctiveness Group	Trading Rule	Trading Satisfied?				
	Very High	Same habitat required =	Yes √				
Trading	High	Like for like or better	No 🛦				
summary area habitats	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 √				
Trading summary							

Very High Distinc	tiveness		
Habitat group	On-site unit change	Off-site unit change	Project-wide unit change
gerow with trees - associated with bank or ditch	0.35	0.00	0.35 🗸
	0.35	0.00	0.36

High Distinctiveness							
Habitat group	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				

Medium Distinctiveness						
Habitat group	On-aite 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	88.88			

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	1.08				

Very Low Distinctiveness						
Habitat group	On-aite 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 High Dia	stinctiveness Sumr	nary
Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.35	1
Remaining losses; Like for like not satisfied	0.00	

High Distir	nctiveness Summary	
High Distinctiveness Units available to offset lower distinctiveness deficit	1.50	1
High Distinctiveness losses to be offset by trading up	-0.39	۵
Higher Distinctiveness surplus units minus any high distinctiveness deficit	-0.05	۵

Medium Dis	tinctiveness Summary	
Units available from higher distinctiveness habitats	1.50	4
Medium Distinctiveness net change in units	55.58	4
Cumulative availability of units	57.08	4

Low Distinctiveness Summary										
Low Distinctiveness net change in units	1.05	<								
Cumulative availability of units	58.13	~								

Very Low Distinctiveness Summary Very Low Distinctiveness net change in units 0.00		r
Very Low Distinctiveness net change in units	0.00	
Cumulative availability of units	58.13	1

eturn to		Trading Su	mmary	7	
menu	Distinctiveness Group		Trading		Trading Satisfied?
	Very High	Same habitat requir	red - besp	oke compensation option A	Yes √
Trading ummary	High	Ser	ne habitat :	required =	Yes √
a habitats	Medium		ne habitet :		Yes √
	Low	Better dist	linctivenes	s habitat required	Yes √
rading mmary dgerows	Very High Distinctivene	.55			Very High Distinctiveness Summary
	Habitat group	On-site unit change	Off-site unit change	Project-wide unit change	Very High Distinctiveness Units available to offer lower distinctiveness deficit
	Priority habitat	0.00	0.00	0.00	Remaining losses, Like for 0.00
		0.00	0.00	0.00	uke not satisfied
	High Distinctiveness				High Distinctiveness Summa
_	Habitat group	On-site unit change	Off-site unit	Project-wide unit change	High Distinctiveness Units available to offset lower 1.89
	Other rivers and streams	1.89	opange 0.00	1.89 🗸	distinctiveness deficit Remaining losses; Like for 0.00
	Center rivers and sitearns	1.89	0.00	1.89	like not satisfied
	Medium Distinctivene		Off-site unit	Project wide unit change	Medium Distinctiveness Summary Median Distinctiveness Unit with the other
	Habitat group	On-site unit change	change	Project wide dat change	Lower Distinctiveness Deficit
	Ditches	1.97	0.00	1.97 🗸	Remaining losses; Like for like not satisfied
	Canals	0.00	0.00	0.00	
					·
	Low Distinctiveness		Off-site		Low Distinctiveness Summar
	Habitat group	On-site unit change	unit	Project wide unit change	Low Distinctiveness net change in units 0.00
	Culvert	0.00	0.00	0.00	Cumulative availability of 3.86

		esmany of sites								mmary of sites										_	
Gain sile reference					Off-sile unsi change-per gain sile (per-SISM)	Off-sile unit		Gainster	Officientis	omary of sites	off-stauets	person unit gai Off-sie units	Citrate unit	Offsite unit durige per gain site (posi-SEM)	Extender	Off-sile-units	constructs	Of strusts	COurse unit go	Off-site unit change per gain. site (per-SDM)	Off-site unit
relevenie	havefine	relained	enhanced	created	sile (pre-SIGU)	sile (pas) (933)		raterence	kaseline	related	evilanced	onstel	ale (see 1834)	ute (post GRM)	reference	hardne	relained	enhanced	orstel	ste (pre-SIM)	site (para 903)
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	• The Author information	4			replaceable a								
Habitat reference	 For numer information Metric habitat type 	Irreplaceable habitat	Total area at baseline	Area retained	Area enhanced	Area lost	Beanoke	ite habitat baseline tab, with the exception of irr User comments	Planning authority	Habitat reference			
		name	Daseime				compensation agreed for losses?		comments	number			
	Irreplaceable habitat a	rea including individual Intertidal hard structures:	0.00										
	trees, green walls and in Total irreplaceable h individual trees, green y		0.00										
	struc	tures:											
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	37.001 38	zanor znagrove mozor me Zulice Jedgelow Zgeoles vick salve Jedgelow with trees	0.442	Low Note	2	Cool	2	London ecologically desirable had not in local analogy Location ecologically desirable had not in local analogy Formady identified in local strategy	Medium akaingto scoreformer Megis strategio scoreformer	1.1	hand or halter Same distinctioners hand or heter Line for the or heter	2.82	0.438	0.079	238	0.30	0.00	0.08	THEODECTINES		
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11	5 B	Tpecies-ich ratio belgeror - associated with load or dish. Species-rich ratio belgeror with trees - associated with load or dish. Species-rich ratio belgeror with trees - associated with load or	0.46 0.236 0.23	Nigh VHigh	8	Cool Cool Cool	2	Formady identified in load stategy Formady identified in load stategy	High strategie deservices High strategie deservices High strategie	1.15	Like for the or laster Like for the	8.45	0.48		5.52 6.45	0.30	0.00	0.00			
14 18	50. 50. 51.	non. Tpeire-int.native bedgerow - annotated with basis or disk. Endow bedgerow	0.227	Nigh Low	6	Cool	3	Formally identified in load stategy Formally identified in load stategy Location ecologically desirable load not in load strategy	Migli sinamja meshinana Medicas shahego meshinana	1.15	Line for line or limiter Line for line or limiter Lines distinctions as hand or hadres	13.99	0.871		13.89	020	12.0	01.0	THE DATA IN IN		
10 17	10 03	Species with naive hedge on with trees - suscided with land or dish Tailor hedge on Species with naive hedge on	0.303	V.High Low Medium	8 2 4	Cool Cool	3	Formally identified in load stategy Location ecologically desirable loat not in load stategy Formally identified in load stategy	Migh strategic mentiopers Medicat ab degic contribution High strategic	1.15	Like for the Same distinctiveness based or basisse Same distinctiveness	8.38 2.71 2.85	0.238		8.09 2.68 2.31	0.30	0.00 03.0	0.28	En loss al 1600-0-8.8.02m 1602-222 fin loss 1602-122 fin loss		
10	80 80	Tailor Indgelow Solite Indgelow with trees	0.287 0.380	Low Medium	2	Pour	1	Locatos ecologically desirable had not in local strategy Locatos ecologically desirable had not in local strategy	Median nichten Median nichten Median nichten sonthene		East of Industry Same Color/Verseas Name Color/Verseas Same Color/Verseas Same Color/Verseas	0.10		0.387	6.00 6.00	0.19	0.00 0.00	0.00			
#1 #2	77	Native Indeposes Species viels sative Indeposes	0.442	Low Medium	4	Cood Poor Poor	3	Formally identified in load stategy Formally identified in load stategy	Ngluinengo Angluinengo Angluinengo Angluinengo	1.15	hand or balant band or balant band or below	3.05	0.442	0.328	3.08 6.00	0.30	0.00	0.00	700-040a.tos		
30 20 20	π π	Line of losses Native longerious with trees - associated with loads or disk Native longerious with trees - associated with loads or disk	0.147 0.147	Kigh Nigh	2 6 6	Mideons Mideons Cood	2 2 3	Location seeingody desirable has not in lood strategy Location seeingody desirable has not in lood strategy Location seeingody desirable has not in lood strategy	Median shidega dotticate Median shidega conference		Named on Rawland Likes for likes or Rawland Likes for likes or Rawland	0.81 1.94 3.27	0.198	0.142	003 202	0.81 1.87 0.30	0.00	00.0 72.0 02.0	NUT-UK DAMMA Jose 1002-18 Dillion Jose		
27 39	20 24	Native hedgerow - associated with basis or dish Native hedgerow with trees - associated with basis or dish Native hedgerow with trees - associated with basis or dish	0.086	Medium High High	6	Pour Cool Cool	3	Location ecclopically desirable but not in local strategy Location ecclopically desirable but not in local strategy Location ecclopically desirable but not in local strategy	Medican shahega singkingan Medican shahega singkingan Medican shahega	1.1 1.1	Line definitions as hand or below Line for line or better Line for line or better	0.37 6.22 13.17	0.313	0.014	6.00 4.33 13.83	0.37	0.00	0.00	HEIDER BARN HEIDER BARN		
20 21 20	85. 88	Haliya Jandgasiow Station Jandgasiow with trees	0.067	Low Medium	2	Molecula Poor	2	Location exclusionly desirable but not in local strategy Location exclusionly desirable but not in local strategy	Medium shistopic dombiasco Medium shistopic dombiasco	1.1	Taxon distanti orana Isaad or Isatar Taxon distantar Isatar distantar	0.29	0.33	0.088	6.00 6.97	0.26	0.00	0.04 0.00	In las		
* *	11A 118	Native Indepense Native Indepense	0.062	Low Low	2	Cool Mideour	3 2	Forwardy identified in load stategy Location ecologically desirable but not in load stategy	High sloategie antification Median skielegie confication	1.18	Same distantiveness hand or before Same distantiveness hand or battar	0.43	0.048	0.118	0.43 600	030	0.00	0.00			
20 27 28	LUC LUA	Taiwe hedgeow Spears calculate bedgeow with trees - associated with loads or see.	0.168	Line Viligh	Z B	Cool	3	Location ecologically desirable but not in local strategy. Formally identified in local strategy	Median shatego sinthionor Nigh shatego combinese	1.1	fame distinctionsess hand or believ Like for line	1.10	0.388		1.13	0.30	0.00	0.00			
40 40	130	Native bedgevor with trees - annotated with loads or doth. Species with native bedgevors with trees - associated with loads or social.	0.000	Ngh VHigh	8	Mideate	2	Location ecologically desirable but not in local strategy Formedy identified in local strategy	Mediani shishega ninethrane High sirategio ninethrane	1.1	The fir the or being	1.87		0.148	6.00 6.00	1.87	0.00 0.00	0.00			
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48 47 48	15A 27	Station Independent with trees History Independent	0.296	Median Low	4	Modecate	2	Location ecologically desirable but not in local strategy Location ecologically desirable but not in local strategy	Median shatepo contranos Median shatepo danticanos	11	Same distinctionaria hand or batter Same distinctionaria hand or better	2.60 1.00	0.192	0.288	6.00 1.00	2.82 0.30	0.00	0.09	1822-22-42730a.log 1822-22-8 Galoos		
49 60 61	ABC BBL ATT	Zhilier Jordgesow with trees Zhilier Jordgesow Zjeriers vich aative Jordgesow with trees.	0.233 0.290 0.05	Medium Low High	4	Cool Cool Cool	2	Location ecologically desirable but not in local strategy Location ecologically desirable but not in local strategy Formally identified in local strategy	Median shatega nanfoquar Median shatega nanfoquar Nigh shatega	11 11 138	Danie Galactiveara Band or Betler Danie Galactiveara Band or Batler	3.08 1.85 0.82	0.228		3.05 1.82 0.62	0.30	0.51 0.51 0.00	11.0 41.0 00.0	10010-0024 (100 1001-0024 (100 70000-0024 (100		-
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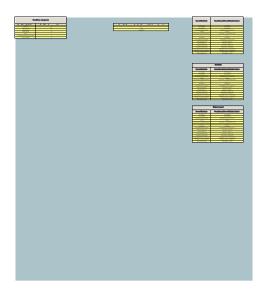
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Inhitst Description	Technical Difficulty Oregion	Multiplier	Technical Difficulty Enhancement	Multiplier
Coastal lapoons - Coastal lapoons Coastal askmarzh - Sakmarzhez and askne reedbeds	Nigh	0.33	Medium	0.67
Cropland - Arable field margins cultivated annually	Low	1	Low	1
Cropland - Arable field margina game bird mix	Low	1	Low	1
Cropland - Anable field margins pollen and nectar	Low	1	Low	1
Cropland - Arable field margina tussoday	Low	1	Low	1
Cropland - Gereal crops	Low	1	Low	1
Cropland - Water stubble	Low	1	Low	1
Creeland - Horiszhue Creeland - Interatue Creeland - Monoranal const	Low Low		Low Low Low	
Gronland - Temporary orazz and clover levz Grandard - Traditional orchards	Low		Low Medium	0.67
Graziand - Braden Graziand - Roodplain weiland mosaic and CFGM	Low High	0.33	Low Medium High	0.67
Grazeland - Lowland calcureous grazeland Grazeland - Lowland dry acid grazeland Grazeland - Lowland manipus	High High	0.33	High High	0.33
Grassland - Modified grassland Grassland - Other lowlend acid grassland	Low		Low	0.01
Graziand - Other neutral graziland Graziland - Tall herb communities (HE43G)	Low High	0.33	Low Nigh	0.33
Grautand - Uoland acid grautand Grautand - Uoland calcareous grautand	Low High	0.33	Low High	0.33
Grazziand - Upland hay mendorer Heathland and shrub - Biachlorm arrub Menthland and shrub - Biachlor arrub	Low	0.33	Medium Low	0.67
Heathland and shrub - Gorae scrub Heathland and shrub - Stevenon scrub	Low		Low	
Heathland and abrub - Hanel newsh Heathland and abrub - Willow acrub Heathland and abrub - Willow acrub	Medium Medium High	0.67	Low Low Medium	1
Meathland and shrub - Mized acrub Meathland and shrub - Mountain heaths and willow acrub	Low	0.33	Low	0.33
Heathland and shub - Rindonsen and a crisic Meathland and shub - Dunes with asa buckhom (R160) Maathland and shub - Obar asa buckhom arush	Low Medium Low	0.67	Low	
Heathland and shrub - Upland heathland Intertidal zediment - Artificial Interal biogenic reefs	Medium High	0.67	Medium Medium	0.67
Intertidal zediment - Artificial litional coarse aediment Intertidal zediment - Artificial litional mixed zediments	Medium Nigh	0.67	Medium Medium	0.67
intertula isecuritet - Artificia littoria mudi/ iand Intertulai zedurent - Artificial littoria zeagrazz Intertulai zedurent - Ensirona ed littoria zedurent	High High	0.33	High Medium	0.33
Intertidal rediment - Littoral biogenic peets - Sabellaria Intertidal zediment - Littoral coarse zediment	Hah Medun	0.33	Msdium Msdium	0.67
Intertical andernare - Lateral resided and materia Intertical andernaret - Lateral resid Intertical andernare - Lateral anagrass	High High High	0.33	Medium Medium High	0.67
intertudu isedment - Lincola leagnate on pain, day or chair Lakes - Aquiler fed naturally factuating water bodies Lakes - Ormerentellake or mond	Very High Very High Low	0.1	High High	0.33
Lakes - Heph allohinity lakes Lakes - Low alkohinity lakes	High High	0.33	High Medium	0.33
Laine - Mari lakee Laine - Moderate sikulmity lakee	High High	0.33	High High	0.33
Lakana - Penet lakone Lakana - Peneta (neur-priority habitat) Lakana - Munda (neurints hebitat)	High Low Medicar	0.33	Nigh Medium	0.33
Lakes - Totale total y intervets Lakes - Temporary lakes ponds and pools (03170)	Medium	0.67	Medium	0.67
Rocky shore - Festures of listoral rock Rocky shore - Festures of listoral rock - on pest, clay or chalk Rocky shore - High energy listoral rock	High Very High High	0.33 0.1 0.33	Medium Medium Medium	0.67
Rodey shore - High energy intensi rock - on pest, clay or chaik Rodey shore - Low energy littensi rock Rodey shore - Low energy littensi rock, on pest, clay or chaik	Very High High Very High	0.33	Medium Medium Medium	0.67
Rodey shore - Moderate energy littoral rock Rodey shore - Moderate energy littoral rock - on pear, clay or chail:	High Very High	0.33	Medium Medium	0.67
Sparsely vecestated land - Calaminarian crassiands Sparsely vecested land - Coastal aand dunes	Very High Very High	0.1	Medium Medium	0.67
Sparsely vegetated land - Coastal wegetated shingle Sparsely vegetated land - bland rock curron and acree habitats	Very High High	0.1	Medium Low	0.67
Sparsely required ind - Marine cliff and stopes Scarsely wontated ind - Other Inland rock and arree	High	0.33	Medium	0.67
Sparsely vegeteted land - Raderal/Sphemeral Sparsely vegeteted land - Tall forbs	Low Low		Medium Medium	0.67
Urban - Vacant or derekt land Urban - Rare ground	Low Low		Low	
Urban - Particula unvegetated, unasaled surface Urban - Roswale	Low Medium	0.67	Low	
Urban - Intentive creen 2007 Urban - Ruiž Inear festurez	Low		Low	
Urban - Cemeteries and churchyards Urban - Developed land; sealed surface Urban - Developed land; sealed surface	Low	0.67	Low	
Urban - Facade-bound green wal Urban - Ground based creen wal	Medium	0.67	Medium	0.67
Urban - Geound level planters Urban - Biodiverse creen roof	Low Medium	1	Low Medium	0.67
Urban - Introduced shrub Urban - Open monsic habitats on previously developed land	Low Medium	0.67	Low Medium	0.67
Urban - Mus carban Urban - Actively worked aand pit quarry or open cast mine Individual trees - Urban tree	Low Medium Low	0.67	Low Low	
Urban - Soziainable drainage zystem Urban - Uzvegetated qurden	Medium Low	0.67	Medium Low	0.67
Urbas - Vegetated garden Wedend - Banket bog	Low Very High	0.1	Low High	0.33
Weisaid - Lappensons on pair submisse (su 15u) Weisaid - Fens (unland and lowland) Weisaid - Lowland raised bog	High Very High	0.33	High	0.33
Weiand - Oceanic valley mire[1] (D2.1) Weiand - Purcle moor create and such trastures	Very High High	0.1	High High	0.33
Wesland - Reedbeds Wesland - Transition mires and quaking bogs (00140) Wanning and paper. Tollard	Medium Very High	0.67	Medium High	0.67
Woodland and forest - Lowland beech and year woodland Woodland and forest - Lowland mixed decidation woodland	High High	0.33	Low High High	0.33
Woodland and forest - Native pine woodlands Woodland and forest - Other coniferous woodland	High Low	0.33	High Low	0.33
woodand and arealt - Other Scot's plan woodland Woodland and Ereat - Other woodland: Ereatlawed Woodland and Frant - Other woodland: re-	Medium Low	0.67	Medium Low	0.67
Woodland and forest - Unland birthwoods Woodland and forest - Unland birthwoods	Low Medium High	0.67	Low Medium High	0.67
Woodland and forest - Upland calewood Woodland and forest - Wet woodland	High Medium	0.33	High Medium	0.33
Woodland and forest - Wood-pasture and paskland Intertidal sediment - Littoral and	Very High Medium	0.1	High Medium	0.33
anno ann an Arrent - Lationa modor ann: Intertidal hard atructures - Artificial hard atructures Intertidal hard atructures - Artificial Jeauwa of hard atructures	High Medium Medium	0.67	Medium Medium Medium	0.67
Intertidal hard structures - Artificial hard structures with integrated greezing of grey Coastal salmanth - Artificial salmanthes and salme reedbeds	Medium High	0.67	Medium Medium	0.67
Interticial neciment - Latoral biocercic neets - Manuala Interticial seciment - Artificial biocer mud	High High	0.33	Medium Medium	0.67
Watecourse footnint - Watecourse footnint Individual trees - Roat trees	Low	1	Low	0.67

Spatial m	ultipliers		Diffic	ailty
Electronic I	lationa		Category	Value
Description	Strategio significance	Multiplier	Low	-
Formally identified in local strategy	High strategic significance	1.15	Medium	0.67
Location ecologically desirable but not in local strategy	Medium strategic zignificance	1.1	High	0.33
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Very High	0.1

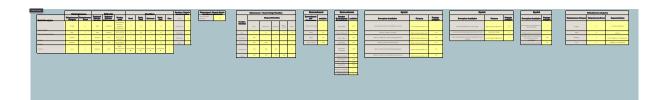
Spatial risk	
Calegory	Multiplier
Compensation inside LPA boundary or NCA of impact site	1
Compensation outside LPA or NCA of impact site, but in neighbouring LPA or NCA	0.75
Compensation outside LPA or NCA of impact size and neighbouring LPA or NCA.	0.5
This metric is being used by an off-site provider	1
Interticial Isabitats - Compensation inside Marine Plan Area of impact site	1
Intertidal habitate - Compensation <u>outside</u> zeroe Marine Plan Area but in neighbouring Marine Plan Area	0.75
Intertidal habitatz - Compensation <u>overide</u> Marine Plan Area of impact site and bwond neighbouring Marine Plan Area	0.5

	lividual tre	
Tree size	RPA Padine (m)	375.04)
Small	3.6	0.0041
Medium	7.2	0.0163
Large	10.8	0.0356
Very large	15.5	0.0765

Return to start							
				Creation		11	
Habitat Description Cropland - Arable field margins cultivated annually	Good Not Possible 🔺	Fairly Good Not Possible A	Moderate Not Possible A	Fairly Poor Not Possible 🔺	Poor Not Possible 🔺	Condition Assessment N/A	N/A - Other Not Possible 🔺
Cropland - Arable field margins game bird mix Cropland - Arable field margins pollen and nectar Cropland - Arable field margins tussocky	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 A Not Possible A Not Possible A	1	Not Possible Not Possible Not Possible
Cropland - Cereal crops Cropland - Winter stubble Cropland - Horiculture	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 A Not Possible A Not Possible A	1	Not Possible Not Possible Not Possible
Cropland - Intensive orchards 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 A Not Possible A Not Possible A	1	Not Possible Not Possible Not Possible
Cropland - Temporary grass and clover leys Grassland - Traditional orchards Grassland - Bracken	30 Not Possible ▲	25 Not Possible ▲	20 Not Possible 🔺	Not Possible 10 Not Possible	S Not Possible 🔺	Not Possible ▲ 1	Not Possible A Not Possible A
Grassland - Eoodplain wetland mosaic and CFGM Grassland - Lowland calcareous grassland Grassland - Lowland dry acid grassland	20 20 30+	15 15 25	10 10 20	8 8 15	5 5 10	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Grassland - Lowland meadows Grassland - Modified grassland Grassland - Other Icwiand acid grassland	15 7 15	12 5 12	10 4 10	8 2 5	5 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Grassland - Other neutral grassland Grassland - Tall herb communities (H6430)	10 30	7 25	S 20	3 15	2 10	Not Possible 🔺 Not Possible 🔺	Not Possible A Not Possible A
Grassland - Upland acid grassland Grassland - Upland calcareous grassland Grassland - Upland hay meadows	15 25 20	12 20 18	10 15 15	5 12 12	1 10 10	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Heathland and shrub - Blackthorn scrub Heathland and shrub - Bramble scrub	10 Not Possible ▲ 10	7 Not Possible ▲ 7	5 Not Possible 🛦	3 Not Possible ▲	l Not Possible 🔺	Not Possible	Not Possible Not Possible Not Possible
Heathland and shrub - Gorse acrub Heathland and shrub - Hawthorn acrub Heathland and shrub - Hazel acrub	10 15	7 12	5 10	3 7	1 5	Not Possible Not Possible	Not Possible A Not Possible A
Heathland and ahrub - Willow scrub Heathland and shrub - Lowland heathland Heathland and shrub - Mixed scrub	15 30+ 10	12 25 7	10 20 5	7 15 3	5 10 1	Not Possible Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Heathland and shrub - Mountain heaths and willow scrub Heathland and shrub - Rhododendron scrub	30+ Not Possible ▲ 10	30+ Not Possible ▲	25 Not Possible ▲ S	23 Not Possible A	15 Not Possible 🔺	Not Possible ▲ 1 Not Possible ▲	Not Possible Not Possible Not Possible
Heathland and shrub - Dunes with sea buckthorn (H2160) Heathland and shrub - Other sea buckthorn scrub Heathland and shrub - Upland heathland	Not Possible 30	I Not Possible ▲ 25	Not Possible 20	Not Possible ▲	I Not Possible 🔺 10	I Not Possible A	Not Possible A Not Possible A
Lakes - Aquifer fed naturally fluctuating water bodies Lakes - High alkalinity lakes	30 30	20 20	15 10	10	1	Not Possible 🔺	Not Possible 🔺
Lakes - Lakes Lakes Lakes Lakes Lakes - Maril Lakes Lakes - Maril Lakes - Lakes - Maril Lakes Lakes - Maril Lakes Lakes - Maril Lakes - Lake	30 30 30	20 20 20	10 10 10	7 7 7	5	Not Possible No	Not Possible Not Possible Not Possible
Lakes - Peat lakes Lakes - Ponds (priority habitat)	30 5	20 4	10 3	7 2	5 5 1	Not Possible Not Possible	Not Possible A Not Possible A
Lakes - Ponda (non-priority habitat) Lakes - Reservoirs Lakes - Temporary lakes ponds and pools (H3170)	5 10 5	4 7 4	3 5 3	2 3 2	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Sparsely vegetated land - Calaminarian grasslands Sparsely vegetated land - Coastal asnd dunes Sparsely vegetated land - Coastal vegetated ahingle	10 20 20	7 15 15	5 10 10	3 7 7	2 5	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Sparsely vegetated land - Ruderal/Ephemeral Sparsely vegetated land - Tall forbs	5	4 4	3	2	1	Not Possible Not Possible	Not Possible A Not Possible A
Sparsely vegetated land - Inland rock outcrop and scree habitats Sparsely vegetated land - Limestone pavement Sparsely vegetated land - Maritime cliff and slopes	30+ 30+ 20	25 30+ 15	20 30+ 10	15 30+ 7	10 30+ 5	Not Possible Not Possible Not Possible	Not Possible A Not Possible
Sparsely vegetated land - Other inland rock and scree Urban - Allotments	20 1	15 1	10	7	5	Not Possible Not Possible	Not Possible A Not Possible A Not Possible A
Lakes - Ornamental lake or pond Urban - Artificial unvegetated, unsealed surface Urban - Boswale	Not Possible	9 Not Possible ▲ 2	Not Possible 🔺	Not Possible ▲	Not Possible A	Not Possible Not Possible Not Possible	0 Not Possible 🔺
Urban - Intensive green roof Urban - Built linear features Urban - Cemetries and churchyards	S Not Possible ▲ 20	4 Not Possible ▲ 17	3 Not Possible ▲ 15	2 Not Possible ▲ 12	1 Not Possible 🔺 10	Not Possible Not Possible Not Possible	Not Possible 0 Not Possible
Urban - Developed land; sealed surface Urban - Other green roof	Not Possible Not Possible	Not Possible Not Possible	Not Possible Not Possible	Not Possible Not Possible	Not Possible A	Not Possible 1 Not Possible	0 Not Possible 🔺
Urban - Facade-bound green wall Urban - Ground based green wall Urban - Ground level planters	5 Not Possible 🛦	4 Not Possible ▲	3 Not Possible 🛦	2 Not Possible 🛦	l Not Possible 🔺	Not Possible ▲ 1	Not Possible A Not Possible A Not Possible A
Urban – Biodiverse green roof Urban – Introduced shrub Urban – Open mossic habitats on previously developed land	10 Not Possible ▲ 10	8 Not Possible ▲ 7	5 Not Possible 🔺 4	3 Not Possible ▲ 2	1 Not Possible 🔺 0	Not Possible 1 Not Possible	Not Possible A Not Possible A Not Possible A
Urban - Rain garden Urban - Actively worked sand pit quarry or open cast mine Individual trees - Urban tree	5 Not Possible ▲ 30+	4 Not Possible ▲ 30+	3 Not Possible ▲ 27	2 Not Possible ▲ 19	l Not Possible 🔺 10	Not Possible ▲ 1 Not Possible ▲	Not Possible A Not Possible A Not Possible A
Urban - Sustainable drainage system Urban - Unvegetated garden	5 Not Possible 🔺	4 Not Possible ▲	3 Not Possible 🔺	2 Not Possible 🔺	l Not Possible 🔺	Not Possible Not Possible	Not Possible A
Urban - Vacant or dereliot land Urban - Bare ground Urban - Vecetated garden	5 S Not Possible 🔺	4 4 Not Possible ▲	3 Not Possible ▲	2 2 Not Possible 🛦	l l Not Possible 🔺	Not Possible Not Possible 1	Not Possible A Not Possible A Not Possible A
Wetland - Blanket bog Wetland - Depressions on peat substrates (H7150) Wetland - Fens (unland and lowland)	30+ 30+ 30	30+ 30+ 25	30+ 30 20	30+ 25 15	30+ 15 10	Not Possible Not Possible Not Possible	Not Possible A Not Possible A Not Possible A
Vectand - Peris (upland and lowiand) Wetland - Lowiand raised bog Wetland - Oceanic valley mire[1] (D2.1)	30+ 30+	30+ 30+	30 30	20 20	10 15 15	Not Possible Not Possible	Not Possible
Wetland - Purple moor grass and rush pastures Wetland - Reedbeds Wetland - Transition mires and quaking bogs (H7140)	30 12 30+	25 10 30+	20 7 30	15 5 25	10 3 15	Not Possible ▲ Not Possible ▲ Not Possible ▲	Not Possible A Not Possible A Not Possible A
Woodland and forest - Felled Woodland and forest - Lowland beech and yew woodland Woodland and forest - Lowland mixed deciduous woodland	30+ 30+ 30+	Not Possible 30+ 30+	Not Possible 30+ 30+	Not Possible 25	Not Possible 10 10	Not Possible Not Possible Not Possible	Not Possible A Not Possible A
Woodland and forest - Native pine woodlands Woodland and forest - Other coniferous woodland	30+ 30+	30+ 30+	30+ 30	25 25 10	10 5	Not Possible Not Possible	Not Possible A Not Possible A
Woodland and forest - Other Scot's pine woodland Woodland and forest - Other woodland; broadleaved Woodland and forest - Other woodland; mixed	30+ 30+ 30+	30+ 25 30+	30+ 15 30	25 7 10	10 5 5	Not Possible Not Possible Not Possible	Not Possible Not Possible
Woodland and forest - Upland hirchwoods Woodland and forest - Upland mixed ashwoods	30+ 30+	30 30+ 30+	25 30+ 30+	20 25	10 10	Not Possible Not Possible Not Possible Not Possible	Not Possible
Woodland and forest - Upland oakwood Woodland and forest - Wet woodland Woodland and forest - Wood-pasture and parkland	30+ 30+ 30+	30 30+	15 30+	25 10 25	10 5 10	Not Possible 🔺 Not Possible 🔺	Not Possible Not Possible Not Possible
Coastal lagoona - Coastal lagoona Rocky ahore - High energy littoral rock: Rocky ahore - High energy littoral rock - on pest, clay or chalk	10 10 30+	8 7 30+	5 4 30+	3 2 30+	1 1 30+	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Rocky shore - Moderate energy littoral rock Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	13 30+ 15	8 30+ 10	4 30+ 5	2 30+	1 30+	Not Possible No	Not Possible A Not Possible A Not Possible A
Rocky shore - Low energy littoral rock Rocky shore - Low energy littoral rock - on peat, clay or chalk Rocky shore - Features of littoral rock	30+ 13	30+ 8	30+ 4	30+ 2	30+ 1	Not Possible Not Possible	Not Possible A Not Possible A
Rocky abore - Features of littoral rock - on peat, clay or chalk Intertidal sediment - Littoral coarse sediment Intertidal sediment - Littoral mud	30+ 3	30+ 2 4	30+ 1 3	30+ 1 2	30+ 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Intertidal sediment - Littoral mixed sediments Coastal saltmarsh - Saltmarshes and saline reedbeds	5 15	4 10	3 7 7	2 3 2	1	Not Possible Not Possible	Not Possible A
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds Intertidal sediment - Littoral seagrass Intertidal sediment - Littoral seagrass on peat, clay or chalk	15 20 30+	10 15 30+	7 10 30+	3 5 30+	1 2 30+	Not Possible Not Possible Not Possible	Not Possible A Not Possible A Not Possible A
Intertidal sediment - Littoral biogenic reefs - Mussels Intertidal sediment - Littoral biogenic reefs - Sabellaria Intertidal sediment - Features of Ultoral sediment	15 15 10	10 10 7	5 5 5	3 3 3	3 3 3	Not Possible ▲ Not Possible ▲ Not Possible ▲	Not Possible A Not Possible A Not Possible A
Intertidal sediment - Artificial littoral coarse sediment Intertidal sediment - Artificial littoral mud	3	2 4	1 3	1	1	Not Possible 🔺 Not Possible 🔺	Not Possible A
Intertidal sediment - Artificial litoral asad Intertidal sediment - Artificial litoral muddy sand Intertidal sediment - Artificial litoral mixed sediments	4 5 5	2 4 4	1 3 3	1 2 2	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Intertidal sediment - Artificial littoral seagrass Intertidal sediment - Artificial littoral biogenic reefs Intertidal sediment - Littoral sand	20 15 4	15 10 2	10 5 1	5 3 1	2 3 1	Not Possible Not Possible Not Possible	Not Possible A Not Possible A Not Possible A
Intertidal sediment - Littoral muddy sand Intertidal hard structures - Artificial hard structures	5 15	4 10	3	2	1	Not Possible 🔺 Not Possible 🔺	Not Possible A Not Possible
Intertidal hard structures - Artificial keatures of hard structures Intertidal hard structures - Artificial hard structures with integrated greening of grey infrastructure (IGG Watercourse footprint - Watercourse footprint	13 13 Not Possible ▲	8 8 Not Possible 🔺	4 4 Not Possible ▲	2 2 Not Possible ▲	l l Not Possible 🔺	Not Possible Not Possible Not Possible Not Possible	Not Possible Not Possible 0
Individual trees - Rural tree	30+	30+	27	19	10	Not Possible A	Not Possible 🔺

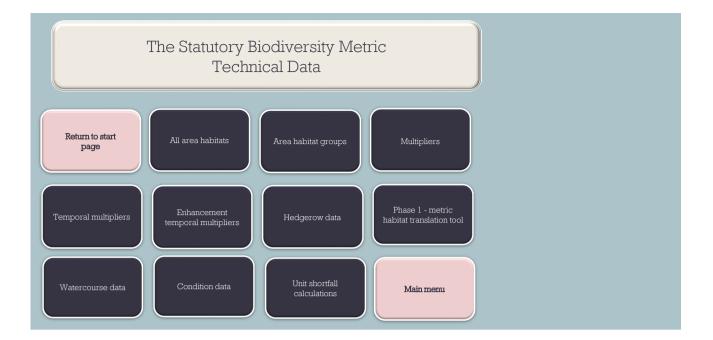
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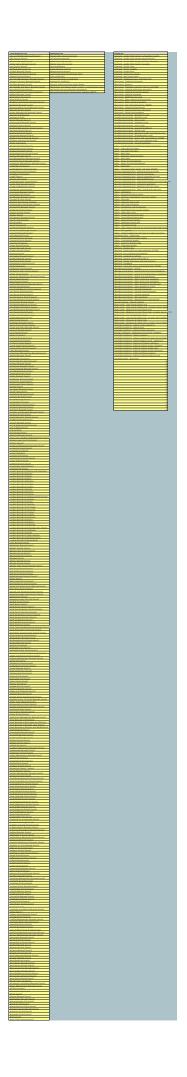
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Return to start							
			1	Conditio		Condition Assessment	
Habitat Description Cropland - Arabie field margins cultivated annually	Good Not Possible ▲	Fairly Good Not Possible 🔺	Moderate Not Possible 🛦	Fairly Poor Not Possible 🔺	Poor Not Possible 🔺	Condition Assessment N/A 1	N/A - Other Not Possible ▲
Cropland - Arable field margins game bird mix Cropland - Arable field margins pollen and nectar	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	1	Not Possible Not Possible
Cropland - Arable field margins tussocky Cropland - Cereal crops 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	1	Not Possible Not Possible Not Possible
Cropland - Horticulture Cropland - Intensive orchards	Not Possible 🔺	Not Possible 🔺 Not Possible 🔺	Not Possible 🛦 Not Possible 🛦	Not Possible 🛦 Not Possible 🛦	Not Possible ▲ Not Possible ▲	1	Not Possible 🔺 Not Possible 🔺
Cropland - Non-cereal crops Cropland - Temporary grass and clover leys Grassland - Traditional orchards	Not Possible Not Possible	Not Possible Not Possible 2.5	Not Possible Not Possible 2	Not Possible Not Possible 15	Not Possible Not Possible	l l Not Possible 🔺	Not Possible Not Possible Not Possible
Grassiand - Floadplain wetland mosaic and CFGM Grassiand - Floadplain wetland mosaic and CFGM	Not Possible 🔺	Not Possible 2.5	Not Possible 2	Not Possible 1.5	Not Possible 🔺	l Not Possible ▲	Not Possible 🔺 Not Possible 🔺
Grassland - Lowland calcareous grassland Grassland - Lowland dry acid grassland Grassland - Lowland model and the second	3 3 3	2.5 2.5 2.5	2 2 2 2	1.5 1.5 1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Grassland - Lowland meadows Grassland - Modified grassland Grassland - Other lowland acid grassland	3	2.5	2	1.5	1	Not Possible Not Possible	Not Possible Not Possible
Grassland - Other neutral grassland Grassland - Tail herb communities (H6430)	3	2.5 2.5	2 2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺
Grassland - Upland acid grassland Grassland - Upland calcareous grassland	3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1	Not Possible ▲ Not Possible ▲ Not Possible ▲	Not Possible Not Possible Not Possible
Grassland - Upland hay meadows Heathland and shrub - Blackhorn scrub Heathland and shrub - Bramble scrub	3 Not Possible ▲	2.5 2.5 Not Possible 🔺	2 Not Possible 🛦	1.5 1.5 Not Possible 🛦	1 1 Not Possible ▲	Not Possible	Not Possible Not Possible
Heathland and shrub - Gorse scrub Heathland and shrub - Hawthorn scrub	3	2.5 2.5	2	1.5 1.5	1	Not Possible Not Possible	Not Possible Not Possible
Heathland and shrub - Hazel scrub Heathland and shrub - Lowiand heathland Heathland and shrub - Mixed scrub	3 3 3	2.5 2.5 2.5	2 2 2 2	1.5 1.5 1.5	1 1 1	Not Possible ▲ Not Possible ▲ Not Possible ▲	Not Possible Not Possible Not Possible
Heathland and shrub - Mountain heaths and willow scrub Heathland and shrub - Rhododendron scrub	3 Not Possible ▲	2.5 Not Possible ▲	2 Not Possible ▲	1.5 Not Possible 🔺	l Not Possible ▲	Not Possible 🔺 l	Not Possible 🔺 Not Possible 🔺
Heathland and shrub - Dunes with sea buckthorn (H2160) Heathland and shrub - Other sea buckthorn scrub Heathland and shrub - Willow scrub	3 Not Possible ▲ 3	2.5 Not Possible ▲ 2.5	2 Not Possible ▲ 2	1.5 Not Possible ▲ 1.5	1 Not Possible ▲ 1	Not Possible ▲ 1 Not Possible ▲	Not Possible Not Possible Not Possible
Heathland and shrub - Upland heathland Lakes - Aquifer fed naturally fluctuating water bodies	3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1	Not Possible Not Possible	Not Possible 🔺 Not Possible 🔺
Lakes - High alkalinity lakes Lakes - Low alkalinity lakes Lakes - Mari lakes	3 3 3	2.5 2.5 2.5	2 2 2	1.5 1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Lakes - Moderate alkalinity lakes Lakes - Peat lakes	3 3 3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1	Not Possible Not Possible	Not Possible 🔺 Not Possible 🔺
Lakes - Ponds (priority habitat) Lakes - Ponds (non-priority habitat)	3	2.5 2.5 2.5	2 2 2 2	1.5 1.5	1	Not Possible Not Possible	Not Possible Not Possible Not Possible
Lakes - Reservoirs Lakes - Temporary lakes ponds and pools (H3170) Sparsely vegetated land - Calaminarian grasslands	3 3 3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Sparsely vegetated land - Coastal sand dunes Sparsely vegetated land - Coastal vegetated shingle	3	2.5 2.5	2 2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺 Not Possible 🔺
Sparsely vegetated land - Ruderal/Ephemeral Sparsely vegetated land - Tall forbs Sparsely vegetated land - Inland rock outcrop and scree habitats	3	2.5 2.5 2.5	2 2 2 2	1.5 1.5	1	Not Possible ▲ Not Possible ▲ Not Possible ▲	Not Possible Not Possible Not Possible
Sparsely vegetated land - Limestone pavement Sparsely vegetated land - Maritime cliff and slopes	3	2.5 2.5	2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible Not Possible
Sparsely vegetated land - Other inland rock and scree Urban - Allotments Lakes - Ornamental lake or pond	3	2.5 2.5 2.5	2 2 2	1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Urban - Minimizia inte o poid Urban - Artificial unvegetated, unsealed surface Urban - Bioswale	Not Possible	Not Possible 2.5	Not Possible 2	Not Possible 1.5	Not Possible	Not Possible Not Possible	0 Not Possible 🔺
Urban - Intensive green roof Urban - Built linear features	3 Not Possible ▲	2.5 Not Possible ▲	2 Not Possible 🔺	1.5 Not Possible A	1 Not Possible ▲	Not Possible ▲ Not Possible ▲ Not Possible ▲	Not Possible 0 Not Possible
Urban - Cemeteries and churchyards Urban - Developed land; sealed surface Urban - Other green roof	3 Not Possible ▲ Not Possible ▲	2.5 Not Possible A Not Possible A	Not Possible Not Possible	1.5 Not Possible A Not Possible A	I Not Possible ▲ Not Possible ▲	Not Possible Not Possible 1	Not Possible 0 Not Possible
Urban - Facade-bound green wall Urban - Ground based green wall	3	2.5 2.5	2	1.5 1.5	1	Not Possible Not Possible	Not Possible 🔺 Not Possible 🔺
Urban - Ground level planters Urban - Biodiverse green roof Urban - Inroduced shrub	Not Possible	Not Possible 2.5 Not Possible	Not Possible 2 Not Possible	Not Possible ▲ 1.5 Not Possible ▲	Not Possible 1 Not Possible	Not Possible 🔺	Not Possible Not Possible Not Possible
Urban - Open mosaic habitats on previously developed land Urban - Rain garden	3	2.5 2.5	2	1.5 1.5	1	Not Possible Not Possible	Not Possible Not Possible
Urban - Actively worked sand pit quarry or open cast mine Individual trees - Urban tree Urban - Sustainable drainage system	Not Possible 3 3	Not Possible 2.5 2.5	Not Possible ▲ 2 2	Not Possible ▲ 1.5 1.5	Not Possible ▲	I Not Possible A Not Possible A	Not Possible Not Possible Not Possible
Urban - Unvegetated garden Urban - Vacant or derelict land	Not Possible 🔺	Not Possible ▲ 2.5	Not Possible 🔺 2	Not Possible 1.5	Not Possible 🔺	Not Possible 🔺 Not Possible 🔺	0 Not Possible 🔺
Urban - Bare ground Urban - Vegetated garden Wetland - Blanket hor	3 Not Possible ▲ 3	2.5 Not Possible ▲ 2.5	2 Not Possible ▲ 2	1.5 Not Possible ▲	1 Not Possible ▲	Not Possible ▲ 1 Not Possible ▲	Not Possible Not Possible Not Possible
Wetland - Depressions on peat substrates (H7150) Wetland - Fens (upland and lowland)	3	2.5 2.5	2	1.5 1.5	1	Not Possible Not Possible	Not Possible 🔺 Not Possible 🔺
Wetland - Lowland raised bog Wetland - Oceanic valley mire[1] (D2.1) Wetland - Purple moor grass and rush pastures	3	2.5 2.5 2.5	2	1.5 1.5 1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Wetland - Furgher moor grass and rush pastness Wetland - Reschoeds Wetland - Transition mires and quaking bogs (H7140)	3	2.5 2.5	2 2 2	1.5	1	Not Possible Not Possible Not Possible	Not Possible No
Woodland and forest - Felled Woodland and forest - Lowland beech and yew woodland	3	Not Possible 2.5	Not Possible ▲ 2 2	Not Possible 1.5	Not Possible	Not Possible Not Possible	Not Possible No
Woodland and forest - Lowland mixed deciduous woodland Woodland and forest - Native pine woodlands Woodland and forest - Other coniferous woodland	3	2.5 2.5 2.5	2	1.5 1.5 1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Woodland and forest - Other Scot's pine woodland Woodland and forest - Other woodland; broadleaved	3	2.5 2.5 2.5	2	1.5 1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Woodland and forest - Other woodland: mixed Woodland and forest - Upland birchwoods Woodland and forest - Upland mixed ashwoods	3 3 3	2.5 2.5	2 2 2	1.5	1 1 1	Not Possible 🛦 Not Possible 🛦	Not Possible 🔺 Not Possible 🔺
Woodland and forest - Upland oakwood Woodland and forest - Wet woodland	3	2.5 2.5	2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺 Not Possible 🔺
Woodland and forest - Wood-pasture and parkland Coastal Jagoons - Coastal Jagoons Rocky shore - High energy littoral rock	3 3 3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Rocky shore - High energy littoral rock - on peat, clay or chalk Rocky shore - Moderate energy littoral rock	3	2.5 2.5	2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺 Not Possible 🔺
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk Rocky shore - Low energy littoral rock Rocky shore - Low energy littoral rock - on peat, clay or chalk	3 3 3	2.5 2.5 2.5	2 2 2 2	1.5 1.5 1.5	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Rocky shore - Features of littoral rock Rocky shore - Features of littoral rock - on peat, clay or chalk	3	2.5 2.5	2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺 Not Possible 🔺
Intertidal sediment - Litoral coarse sediment Intertidal sediment - Litoral mud Intertidal sediment - Litoral mixed sediments	3 3 3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Coastal saltmarsh - Saltmarshes and saline reedbeds Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	3	2.5 2.5	2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible Not Possible
Intertidal sediment - Littoral seagrass Intertidal sediment - Littoral seagrass on peat, clay or chalk Intertidal sediment - Littoral biogramia zone. Musede	3	2.5 2.5 2.5	2 2 2	1.5 1.5	1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
Intertidal sediment - Litoral biogenic reefs - Mussels Intertidal sediment - Litoral biogenic reefs - Sabellaria Intertidal sediment - Features of litoral sediment	3 3 3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1 1 1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺 Not Possible 🔺
Intertidal sediment - Artificial littoral coarse sediment Intertidal sediment - Artificial littoral mud	3	2.5 2.5	2	1.5	1	Not Possible Not Possible	Not Possible 🔺 Not Possible 🔺
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Intertidal sediment - Artificial littoral seagrass Intertidal sediment - Artificial littoral biogenic reefs	3 3	2.5 2.5	2 2	1.5 1.5	1	Not Possible 🔺 Not Possible 🔺	Not Possible 🔺 Not Possible 🔺
Intertidal sediment - Littoral sand Intertidal sediment - Littoral muddy sand Intertidal hard structures - Artificial hard structures	3 3	2.5 2.5 2.5	2 2 2	1.5 1.5 1.5	1 1 1	Not Possible Not Possible Not Possible	Not Possible Not Possible Not Possible
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	y suggested translation between a phase 1 habitat and metric habitat should	
be circumstances where a Phase 1 Habitat	more appropriate metric habitat may be chosen when ecological expertise is Metric habitat	Distinctiveness band
Woodland Broadleaved woodland	Woodland and forest - Other woodland; mixed Woodland and forest - Other woodland; broadleaved Woodland and forest - Lowland mixed deciduous woodland	Medium Medium
Semi-natural broadleaved woodland Plantation broadleaved woodland	Woodland and forest - Other woodland; broadleaved	High Medium
Conférous woodland Semi-natural conférous woodland	Woodland and forest - Other coniferous woodland Woodland and forest - Native pine woodlands Woodland and forest - Other coniferous woodland	Low High Low
Pantation conferous woodland Mixed woodland Semi-natural mixed woodland	Woodland and forest - Other woodland; mixed Woodland and forest - Lowland mixed deciduous woodland	Medium High
Fantation mixed woodland forub	Woodland and forest - Other woodland; mixed Heathland and shrub - Mixed scrub	Medium Medium
Dense / continuous scrub Scattered scrub	Heathland and shrub - Mixed scrub Heathland and shrub - Mixed scrub	Medium Medium
Parkland / scattered trees Proadleaved parkland / scattered trees	Woodland and forest - Wood-pasture and parkland Woodland and forest - Wood-pasture and parkland	V.High V.High
Coniferous parkland / scattered trees Mixed parkland / scattered trees	Woodland and forest - Other coniferous woodland Woodland and forest - Wood-pasture and parkland Individual trees - Urban tree	Low V.High Medium
Scattered trees Scattered trees Recently felled woodland	Individual trees - Urban tree Individual trees - Rural tree Woodland and forest - Felled	Medium Medium High
woonny-sand woodand Broadleaved recently felled woodland Coniferous recently felled woodland	Woodland and forest - Felled Woodland and forest - Felled	High High
Mixed recently felled woodland Acid grassland	Woodland and forest - Felled Grassland - Other lowland acid grassland	High Medium
Acid grassland Unimproved acid grassland	Grassland - Upland acid grassland Grassland - Lowland dry acid grassland	Medium V.High
Inimproved acid grassland Semi-improved acid grassland (Good quality) Semi-improved acid grassland (Good quality)	Grassland - Upland hay meadows Grassland - Upland acid grassland Grassland - Other lowland acid grassland	V.High Medium
Semi-improved acid grassland (Poor quality)	Grassland - Modified grassland	Medium Low
Neutral grassland Unimproved neutral grassland Semi-improved neutral grassland (Good quality)	Grassland - Other neutral grassland Grassland - Lowiand meadows	Medium V.High
Semi-improved neutral grassland (Poor quality)	Grassland - Other neutral grassland Grassland - Modified grassland Grassland - Upland calcareous grassland	Medium Low High
Calcareous grassland Calcareous grassland	Grassland - Lowland calcareous grassland	High
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Semi-improved calcareous grassland (Good quality)	Grassland - Upland calcareous grassland	High
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Jpen dune sand dune coastland Maritime cliff coastland Hard maritime cliff coastland	Sparsely vegetated land - Costal sand clines Sparsely vegetated land - Manitime cliff and slopes Sparsely vegetated land - Manitime cliff and slopes	High High
Soft maritime cliff Crevice/ledge vegetation	Sparsely vegetated land - Maritime cliff and slopes	Hiah
Crevice/ledge vegetation Coastal crassland	Sparsely vegetated land - Maritime cliff and slopes Grassland - Tall herb communities Sparsely vegetated land - Maritime cliff and slopes	High High High
Coastal grassland Coastal grassland	Sparsely vegetated land - Maritime cliff and slopes Grassland - Lowland meadows Grassland - Lowland dry acid grassland	V.High V.High
Zoastal grassland Zoastal heathland	Grassland - Other lowland acid grassland Sparsely vegetated land - Maritime cliff and slopes	Medium High
Soastal heathland Randing open water	Heathland and shrub - Lowland heathland Lakes - Amifer fed naturally fluctuating water bodies	High V.High
Randing open water Randing open water	Ditches Lakes - High alkalinity lakes Lakes - Low alkalinity lakes	Medium High
Standing open water Standing open water	Lakes - Marl lakes	High High
Standing open water Standing open water	Lakes - Moderate alkalinity lakes Lakes - Peat Lakes Lakes - Ponds (priority habitat)	High High
Standing open water Standing open water Standing open water	Lakes - Ponds (priority habitat) Lakes - Ponds (non-priority habitat) Lakes - Reservoirs	High Medium Medium
Sancing open water Randing open water Dry dwarf shrub heath	Lakes - Temporary lakes, ponds and pools Heathland and shrub - Lowland heathland	High
Dry dwarf shrub heath Acidic dry dwarf shrub heath	Heathland and shrub - Upland heathland Heathland and shrub - Lowland heathland	High High
Acidic dry dwarf shrub heath Basic dry dwarf shrub heath	Heathland and shrub - Upland heathland Heathland and shrub - Lowland heathland	High High
Basic dry dwarf shrub heath Wet dwarf shrub heath	Heathland and shrub - Upland heathland	Hiah
Wet dwarf shrub heath Lichen / bryophyte heath	Heathland and shrub - Lowland heathland Heathland and shrub - Upland heathland Heathland and shrub - Lowland heathland	High High High
Lichen / bryophyte heath Montane heath / dwarf herb	Heathland and shrub - Upland heathland Heathland and shrub - Mountain heaths and willow scrub	High V.High
Darbooth (addia argae mora) -	Heathland and shrub - Lowland heathland	
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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 NPPF⁴, 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 (2016⁷) 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 wellaccepted 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 longterm 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, 2021a⁷).
 - 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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