



**Land West of Fringford
Road, Caversfield**

**Biodiversity Net Gain
Addendum Report**

Prepared by:
**The Environmental Dimension
Partnership Ltd**

On behalf of:
Richborough

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PLANS

- Plan EDP 1: Biodiversity Net Gain: Baseline Habitats
(edp7205_d012a 19 December 2023 JFr/EDe)
- Plan EDP 2: Biodiversity Net Gain Assessment: Proposed Habitats
(edp7205_d014a 23 January 2024 JFr/EDe)

Section 1 Introduction

- 1.1 This Biodiversity Net Gain (BNG) Addendum Report has been prepared by The Environmental Dimension Partnership Ltd (EDP) on behalf of Richborough (hereafter referred to as 'the Applicant'). It provides an updated assessment of the net biodiversity impacts of proposed development at land west of land west of Fringford Road, Caversfield (hereafter referred to as 'the Site') and the scheme's ability to deliver net biodiversity gain.
- 1.2 An Ecological Appraisal (report reference: edp7205_r001) has been prepared in support of the planning application, which includes a preliminary BNG assessment for the scheme based on the Illustrative Masterplan. Since that time, an Illustrative Landscape Masterplan has been prepared (see **Appendix EDP 1**), which enables a more accurate assessment to be made of the post-development biodiversity value of the Site. This BNG Addendum Report therefore present the updated biodiversity metric calculation for the scheme and an overview of the changes proposed. Furthermore, this report provides an overview of how the proposed habitat enhancement and creation measures will be undertaken for the scheme.
- 1.3 This Addendum Report should be read alongside the Ecological Appraisal report and, in respect of the BNG assessment, the final assessment contained in this report supersedes that set out in the Ecological Appraisal report.

SITE CONTEXT

- 1.4 The Site is centred approximately at Ordnance Survey Grid Reference (OSGR) SP 58411 25025. The Local Planning Authority (LPA) is Cherwell District Council (CDC). The location and extents of the Site are illustrated on **Plan EDP 1** and described in the material supporting the planning application, particularly the Design and Access Statement (DAS).
- 1.5 The Site measures approximately 6.9 hectares (ha) and is located on the western edge of Caversfield, Bicester. It comprises horse-grazed pasture with a mixture of equine and residential buildings towards the centre of the Site. The field parcels are delineated by a network of hedgerows and treelines. The immediate surroundings comprise agricultural pasture to the north and south, and low-density residential dwellings to the east and west of the Site.

DEVELOPMENT PROPOSALS

- 1.6 The proposed development comprises of the "*Demolition of existing structures and erection of up to 99 dwellings, access, open space and associated works (outline, all matters reserved save for access)*".

SCOPE OF THE ASSESSMENT

1.7 The remainder of this report is structured as follows:

- **Section 2** summarises the general methodology employed in determining the pre-development and post-development biodiversity value of the Site;
- **Section 3** describes the pre-development baseline and the predicted post-development habitats with reference to the design material currently available; and
- **Section 4** presents the overall conclusions of the assessment in terms of the net biodiversity impact of the development.

Section 2 Methodology

- 2.1 The updated assessment has been undertaken using the Department for the Environment Farming and Rural Affairs (DEFRA) Biodiversity Metric 4.0. This version of the Metric has been superseded by the Statutory Metric, released in November 2023, however the assessment work commenced using version 4.0 and this has therefore been used again for consistency. The assessment has been undertaken by an ecological consultant suitably experienced in these types of assessment, and with reference to current best practice guidance¹. Further details of the methodology followed can be found in the Ecological Appraisal report (edp7205_r001). The following should be read in conjunction with the Biodiversity Metric 4.0 calculation in **Appendix EDP 2**.

ON-SITE BASELINE

- 2.2 The pre-development (baseline) biodiversity value of the Site was calculated using the information derived from the habitat survey completed in July 2023 as described in the Ecological Appraisal report. The main habitats present within the Site were classified in accordance with the UK Habitat Classification System and their current condition was assessed with reference to the habitat-specific criteria detailed within the Biodiversity Metric 4.0 Technical Annexes.
- 2.3 In this case, Watercourse Units were not measured as there are no qualifying water courses present. GIS software was used to accurately measure the area/length of existing habitats. The measured habitat areas/lengths were entered into the Metric as illustrated on **Plan EDP 1**.

ON-SITE POST-INTERVENTION

- 2.4 The predicted post-development biodiversity value of the Site has been calculated based on the Illustrative Landscape Masterplan.
- 2.5 Given the proposals are currently at the outline planning stage, and the development layout and landscape design are therefore illustrative, reasonable assumptions have been made using professional judgement on the type, extent and condition of habitats to be retained, enhanced, and newly created. The predicted post-development habitats were entered into the Biodiversity Metric as illustrated on **Plan EDP 2**. Further details regarding the predicted habitats are set out below.

¹ Biodiversity Net Gain: Good practice principles for development © CIEEM, CIRIA, IEMA, 2016. <https://cieem.net/wp-content/uploads/2019/02/Biodiversity-Net-Gain-Principles.pdf>

Section 3

Pre- and Post-Development Biodiversity Value

- 3.1 The following section breaks down the various components of the Biodiversity Metric to provide clarity on how individual elements have been entered into the Metric.

ON-SITE BASELINE

- 3.2 A graphic representation of the baseline habitat areas/lengths as entered into the Metric is provided on **Plan EDP 1**.
- 3.3 A summary of the baseline habitats is set out in Table EDP 3.3 of the Ecological Appraisal report. The detailed condition assessments of the baseline habitats are provided within **Appendix EDP 3**.

ON-SITE POST-INTERVENTION

- 3.4 A graphic representation of the predicted post-development habitat areas/lengths as entered into the Metric is provided on **Plan EDP 2**. Further details regarding the predicted habitats are set out below.

Retained and Enhanced Habitats

- 3.5 Retained and enhanced habitats have been entered into the Metric as follows:
- 0.0959ha of modified grassland (low distinctiveness) and 0.0829ha of other neutral grassland (medium distinctiveness) retained below hedgerows;
 - 0.0979ha of modified grassland (low distinctiveness) enhanced to lowland meadow (very high distinctiveness);
 - 0.1549ha of modified grassland (low distinctiveness) enhanced to other neutral grassland (medium distinctiveness);
 - 0.7352ha of other neutral grassland (medium distinctiveness), enhanced to lowland meadow (very high distinctiveness);
 - 0.6629ha of moderate condition other neutral grassland (medium distinctiveness), enhanced to good condition other neutral grassland (medium distinctiveness);
 - 0.0242ha of bramble scrub (medium distinctiveness) enhanced to mixed scrub (medium distinctiveness);
 - 0.0736ha of moderate condition mixed scrub (medium distinctiveness) enhanced to good condition mixed scrub (medium distinctiveness); and

- 0.329km (94%) of the total hedgerow network (0.351km) to be retained and enhanced. 0.274km to be enhanced from native hedgerow with trees (medium distinctiveness) to species-rich native hedgerow with trees (high distinctiveness), and 0.082km of native hedgerow (low distinctiveness) to be enhanced to species-rich native hedgerow (medium distinctiveness).

3.6 Further details of the proposed habitat enhancements are provided within **Appendix EDP 3**, along with justification for the target habitat type and condition and the anticipated delivery mechanism.

Habitat Creation

3.7 Newly created habitats have been entered into the Metric as follows:

- Developed land; sealed surface, to represent the proposed extent of the residential dwellings, parking, roads and footpaths, and vegetated gardens;
- Natural play/trail spaces, assumed to comprise a third 'artificial unvegetated, unseal surface' such as woodchip, and two-thirds modified grassland of poor condition, likely sown with a hard-wearing seed mixture suitable for high levels of amenity use;
- Modified grassland of 'moderate' condition to be applied across the Site, predominantly in areas associated with more formal uses, e.g. road verges and areas of Public Open Space (POS) surrounding the play area. Assumes a diverse flowering lawn, tolerant of regular mowing, is created (e.g. using Emorsgate EL1 'flowering lawn mixture'), which will achieve 'moderate' condition. These areas will be managed without the application of fertilisers, herbicides or pesticides;
- Creation of an area of neutral wildflower rich grassland (denoted as 'other neutral grassland') of moderate condition to be created across the Site, including areas surrounding attenuation basins, along retained hedgerow/green corridors and within the north-west of the Site;
- An area of lowland meadow of good condition, to be sown with a unimproved neutral grassland seed mix and fenced off to prevent public access, in the north-west of the Site. Owing to the presence of existing semi-improved neutral grassland in this area, this is considered to be achievable, subject to further investigation of existing soil nutrient levels and remediation measures if necessary;
- Creation of a traditional orchard of moderate condition, to be sown with a wildflower seed mixture and managed as a community orchard;
- Mixed native scrub planting to achieve good condition, used to provide screening and provide forage and shelter for wildlife;
- Sustainable urban drainage features and swales designed to maximise biodiversity benefits, and achieve 'good' condition, through sensitive design and planting with diverse mix of native aquatic and semi-aquatic flora; and

- A wildlife pond of good condition, independent of the drainage solution, to be planted with aquatic species and managed to maximise value to wildlife.

3.8 With reference to the preliminary BNG assessment presented in the Ecological Appraisal report, the following proposed habitats have been amended or are now included within the biodiversity metric as follows:

- Urban trees to be planted throughout the development footprint and rural trees to be planted within informal POS areas. Details regarding the number, locations and/or specification of street trees is unknown at the outline planning stage. For the purpose of the Biodiversity Metric calculations, the total has been increased to 65 small urban trees in 'poor' condition and 75 rural trees in 'moderate' condition are now proposed;
- The residential front gardens have now been input as vegetated gardens;
- Marshy grassland is now proposed along the upper edge of the Sustainable urban Drainage System (SuDS) ponds. This has been input as 'other neutral grassland' of 'moderate' condition; and
- Proposed ornamental non-native hedgerow planting has been proposed around the development footprint. These have been input as non-native and ornamental hedgerow in 'poor' condition.

3.9 The target condition for newly created habitats is detailed within **Appendix EDP 3**, along with justification for the target condition and the anticipated delivery mechanism. An overview of on-site habitat impacts is provided in **Table EDP 3.2**.

3.10 The Strategic Significance categories 'formally identified in local strategy' and 'location ecologically desirable but not in local strategy' have been used where they are relevant. This includes for the following:

- 'Formally identified in local strategy' has been used for the lowland meadows, hedgerows and traditional orchard due to these habitats being identified within Oxfordshire's Biodiversity Action Plan²; and
- Habitats which improve the value of or connectivity to habitats formally identified in the local strategy have been categorised as 'location ecologically desirable but not in local strategy'. This has included areas of other neutral grassland, scrub and ponds (non-priority) proposed within the POS around the scheme.

² BBOWT, Oxfordshire County Council & TVERC., (2014)., *Biodiversity and Planning in Oxfordshire*. Available at: file:///C:/Users/jgwynne/Downloads/Biodiversity_and_planning_in_Oxfordshire__2014.pdf

Table EDP 3.1: Overview of On-site Habitat Creation.

Proposed Habitat	Distinctiveness	Condition	Area/Length Created
Area Habitats			
Lowland meadows	V.High	Good	0.0038ha
Modified grassland	Low	Moderate	0.3127ha
Other neutral grassland	Medium	Moderate	0.8918ha
Traditional orchards	High	Moderate	0.0788ha
Mixed scrub	Medium	Good	0.1514ha
Ponds (non-priority habitat)	Medium	Good	0.0156ha
Artificial unvegetated, unsealed surface	V.Low	N/A	0.0578ha
Bioswale	Low	Good	0.0711ha
Developed land; sealed surface	V.Low	N/A	2.1155ha
Sustainable drainage system	Low	Good	0.1651ha
Vegetated garden	Low	N/A	0.9545ha
Modified grassland	Low	Poor	0.1349ha
Urban tree	Medium	Poor	0.2646ha
Rural tree	Medium	Moderate	0.3054ha
Linear Habitats			
Species-rich native hedgerow	Medium	Moderate	0.129km
Non-native and ornamental hedgerow	V.Low	Poor	0.49km

Section 4 Net Biodiversity Impact

METRIC OUTPUTS

- 4.1 Following the updated Metric calculations, the predicted overall net change in biodiversity units, taking into account all proposed changes to the habitat retention, enhancement and creation, is summarised in **Table EDP 4.1**.

Table EDP 4.1: Biodiversity Metric 4.0 Headline Results.

	Habitat Units	Hedgerow Units
On-site Baseline	35.59	4.45
On-site Post-intervention	39.32	7.87
On-site Net Unit Change	+ 3.73	+3.22
On-site Net % Change	+10.49%	+69.20%

- 4.2 A full copy of the updated Biodiversity Metric spreadsheet (report ref: edp7205_r002) has also been submitted to the LPA with the planning application and is available on request.

CONCLUSIONS

- 4.3 The Metric has demonstrated that the proposed development, albeit submitted in outline, is capable of delivering a net gain in biodiversity. This comprises a net gain of c.10% in Habitat Units and c.70% in Hedgerow Units, thereby meeting the requirements of the National Planning Policy Framework (NPPF, DLUHC 2023) and Policy ESD 10 of the Cherwell Local Plan.
- 4.4 To ensure this is achieved through the Reserved Matters stage of the proposed development, the detailed design of the development should be carried out in accordance with the assumptions made in this report regarding habitat retention, enhancement and creation. To ensure the proposed habitats are subject to appropriate long-term management, it is anticipated that a Landscape and Ecology Management Plan (LEMP), secured via planning condition, will be prepared for the Site at the detailed design stages.
- 4.5 Deviance from the assumptions made could result in a reduction in post-development biodiversity value below the target level, which would require alternative habitat provisions to address the shortfall in units and ensure the proposed development delivers the target level of biodiversity net gain.

Appendix EDP 1

Illustrative Landscape Masterplan



LEGEND

- Boundary
- Existing trees retained
- Existing trees removed
- Existing species-rich native hedgerows/scrub including interspersed groups of trees
- Existing other modified grassland retained
- Proposed species-rich native hedgerow (170 lin/m)
- Proposed ornamental non-native hedgerow (368 lin/m)
- Proposed traditional orchards (25No.)
- Proposed native trees within native scrub (9No.)
- Proposed individual native/non-native trees in development area (46No.)
- Proposed individual native/non-native trees in landscape setting (253No.)
- Proposed introduced shrub in public space (191sqm)
- Proposed mixed scrub (455sqm)
- Proposed vegetated garden (front 1731 sqm)
- Proposed vegetated garden (rear 7763 sqm)
- Proposed modified grassland (4463 sqm)
- Proposed other neutral grassland (EM3 species-rich grassland) (16 681sqm)
- Proposed Lowland Meadow Grassland (No public access) (6774 sqm)
- Proposed other neutral grassland (EM8 wetland pond mix) (754 sqm)
- Proposed other neutral grassland (EP1 pond edge mix) (566sqm)
- Proposed aquatic marginal vegetation (1883 sqm)
- Proposed equipped play/LEAP
- Natural play event



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Appendix EDP 2
Biodiversity Metric 4.0
(edp7205_r002)

Land West of Fringford Road, Caversfield

Return to results menu

Headline Results

Scroll down for final results

On-site baseline	Habitat units	35.59	
	Hedgerow units	4.65	
	Watercourse units	0.00	
On-site post-intervention <small>(Including habitat retention, creation & enhancement)</small>	Habitat units	39.32	
	Hedgerow units	7.87	
	Watercourse units	0.00	
On-site net change <small>(units & percentage)</small>	Habitat units	3.73	10.49%
	Hedgerow units	3.22	69.20%
	Watercourse units	0.00	0.00%

Off-site baseline	Habitat units	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site post-intervention <small>(Including habitat retention, creation & enhancement)</small>	Habitat units	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	
Off-site net change <small>(units & percentage)</small>	Habitat units	0.00	0.00%
	Hedgerow units	0.00	0.00%
	Watercourse units	0.00	0.00%

Combined net unit change <small>(Including all on-site & off-site habitat retention, creation & enhancement)</small>	Habitat units	3.73	
	Hedgerow units	3.22	
	Watercourse units	0.00	
Spatial risk multiplier (SRM) deductions	Habitat units	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	

FINAL RESULTS

Total net unit change <small>(Including all on-site & off-site habitat retention, creation & enhancement)</small>	Habitat units	3.73
	Hedgerow units	3.22
	Watercourse units	0.00

Total net % change <small>(Including all on-site & off-site habitat retention, creation & enhancement)</small>	Habitat units	10.49%
	Hedgerow units	69.20%
	Watercourse units	0.00%

Trading rules satisfied?	Yes ✓
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Unit Type	Target	Baseline Units	Units Required	Unit Deficit
Habitat units	10.00%	35.59	39.15	0.00
Hedgerow units	10.00%	4.65	5.12	0.00
Watercourse units	10.00%	0.00	0.00	0.00

Unit requirement met or surpassed ✓
 Unit requirement met or surpassed ✓
 Unit requirement met or surpassed ✓

Project Name: Land West of Pinhook Road, Cowesfield - Main Reference	
A-1 On-Site Habitat Baseline	
Condition / Show Column	Condition / Show Row
Main Menu	Instructions

Area habitat summary	
Total No. of Classes	133
Total No. of Classes	133
Classes Data Deleted	0

Ref	Habitat name details		Area (hectares)	Disturbance	Status	Condition	Notes	Strategic Alignment			Required Action to Meet Target Value	Designated habitats
	Broad Habitat	Habitat Type						Strategic alignment	Strategic Alignment	Strategic Alignment		
1	Woodland	Woodland grassland	0.003	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.04
2	Woodland	Woodland grassland	0.009	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.06
3	Woodland	Woodland grassland	0.018	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.14
4	Woodland	Woodland grassland	0.025	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.19
5	Woodland	Woodland grassland	0.025	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.19
6	Woodland	Woodland grassland	0.368	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	4.74
7												
8	Woodland	Other neutral grassland	1.217	Medium	+	Medium	+	Recompenstated not in local strategic no local strategic	Medium Strategic Significance	1,2	None	15.37
9	Woodland	Other neutral grassland	0.8474	Medium	+	Medium	+	Recompenstated not in local strategic no local strategic	Medium Strategic Significance	2,2	None	10.4
10	Woodland	Other neutral grassland	0.3302	Medium	+	Medium	+	Recompenstated not in local strategic no local strategic	Medium Strategic Significance	1,1	None	4.17
11	Woodland	Other neutral grassland	0.061	Medium	+	Medium	+	Recompenstated not in local strategic no local strategic	Medium Strategic Significance	1	None	0.73
12	Woodland and scrub	Wooded scrub	0.003	Medium	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.12
13	Woodland and scrub	Wooded scrub	0.016	Medium	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.19
14	Woodland and scrub	Wooded scrub	0.042	Medium	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.52
15	Woodland and scrub	Wooded scrub	0.073	Medium	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.9
16	Woodland and scrub	Wooded scrub	0.073	Medium	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.9
17	Lakes	Private (non-priority) habitat	0.0146	Medium	+	Medium	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.18
18	Openly vegetated area	Subsidiary grassland	0.000	Low	+	Medium	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.04
19	Urban	Agricultural grassland, standard surface	0.008	Very Low	+	SB - Class 1	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	Compensation Not Required	0.09
20	Urban	Developed land, amenity surface	0.010	Very Low	+	SB - Class 1	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	Compensation Not Required	0.09
21	Urban	Vegetated ground	0.010	Low	+	Good	+	Recompenstated not in local strategic no local strategic	Low Strategic Significance	1	None	0.12
22												
Total habitat area												24.36
Site Area (including area of habitat loss and Green web)												4.01

SP to business connections bank	Rehab A web	Rehab B web	SP
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Area habitat	Area habitat	Relative category (land-use) value				Designated habitats	Designated habitats	Other comments	Comments
		Relative category (land-use) value	Relative category (land-use) value	Area habitat lost	Value lost				
0	0	0.00	0.00	0.00	0.04				
0	0.0006	0.00	0.00	0.00	0.00			F 6 FV - general condition criteria A, B, C, D, E, F & G	
0	0.0018	0.00	0.04	0.00	0.00			F 6 FV - general condition criteria A, B, C, D, E, F & G	
0	0.0018	0.00	0.04	0.00	0.00			F 6 FV - general condition criteria C, D, E, F & G; 20 - general condition criteria A, B, C & D	
0	0.0014	0.00	0.00	0.00	0.00			F 6 FV - general condition criteria A, C, D & E	
0.0000	0.0001	0.00	0.04	0.00	4.00			F 6 FV - general condition criteria C, D, E, F & G; 20 - general condition criteria C, D, E, F & G; 20 - general condition criteria A, B, C & D	
0.0000	0	0.00	0.00	0.00	0.00				
0.0000	0	0.00	0.00	0.00	0.00				
0	0.0000	0.00	0.04	0.00	0.00			F 6 - general condition criteria A, C, D, E & F; 20 - general condition criteria A, B, C & D	
0	0.0000	0.00	0.04	0.00	0.00			F 6 - general condition criteria A, C, D & E; 20 - general condition criteria A, B, C & D	
0	0	0.00	0.00	0.00	0.12			F 6 - general condition criteria A, C, D & E	
0	0.0040	0.00	0.00	0.00	0.00			F 6 - general condition criteria A, C, D & E	
0	0	0.00	0.00	0.00	0.00			None condition criteria A, C & D	
0	0.0010	0.00	0.00	0.00	0.00			None condition criteria A, C & D	
0	0	0.00	0.00	0.00	0.12			None condition criteria A, C, D, E, F & G	
0	0	0.00	0.00	0.00	0.04			None condition criteria A and F	
0	0	0.00	0.00	0.00	0.00			Compensated	
0	0	0.00	0.00	0.00	0.00			Compensated	
0	0	0.00	0.00	0.00	0.00			Compensated	
0	0	0.00	0.00	0.00	0.00			Compensated	
0	0	0.00	0.00	0.00	0.00			Compensated	
0.00	1.00	0.00	14.00	4.00	20.00				
Total area lost (including area of habitat loss and Green web)								4.01	

Project Name Land West of Pringford Road, Caversham **Map Reference:**

A-3 On-Site Habitat Creation

Condition / Show Column Condition / Show Rows

Mark Maps Instructions

Area habitat summary	
Total Net that Change	0.73
Total Net % Change	100%
Types of Change	Yes
Individual trees and grass swards	Area Acceptable ✓

Broad Habitat	Proposed habitat	Area (hectares)	Disturbance		Condition		Strategic significance		Temporal multiplier		Final difficulty of creation	Final difficulty of creation	Habit rate delivered	Comments		GfE reference number
			Disturbance	Condition	Strategic significance	Standard or adjusted time to target condition	Final time to target condition (years)	Final difficulty of creation	User comments	Consenting body comments						
Grassland	Lowland meadows	0.0036	V High	Good	Partially identified as local strategy	Standard time to target condition applied	10	High	0.02	Site to be fenced off with no public access. Aim to pass condition criteria - A, B, C, D, E and F.						
Grassland	Modified grassland	0.2771	Low	Medium	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	4	Low	0.99	Arterially grassland around the development footprint to be sown with a flowering lawn mixture. Aim to pass condition criteria - A, C, D, E, F and G.						
Grassland	Modified grassland	0.0356	Low	Medium	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	4	Low	0.12	Arterially grassland around the development footprint to be sown with a flowering lawn mixture. Aim to pass condition criteria - C, F, F and G.						
Grassland	Modified grassland	0.1349	Low	Poor	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	1	Low	0.26	Area within natural play area sown to be 1/3 artificial seeded surface (such as woodchips) and 2/3 modified grassland. This is the modified grassland component and is approved to rear criteria F, F and G.						
Urban	Artificial unvegetated, unsealed surface	0.0291	V Low	N/A - Other	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	0	Low	0.00	Area within natural play area sown to be 1/3 artificial seeded surface (such as woodchips) and 2/3 modified grassland. Modified grassland will be a low-seeding mixture suitable for amenity use. Will aim to pass condition criteria F, F and G.						
Grassland	Other neutral grassland	0.8258	Medium	Medium	location ecologically desirable but not in local strategy	Standard time to target condition applied	5	Low	6.08	Traditional grassland with public access. Aim to pass condition criteria - A, B, C and D.						
Grassland	Traditional orchards	0.0799	High	Medium	Partially identified as local strategy	Standard time to target condition applied	20	Low	0.93	To be sown with wildflower grassland. Will aim to pass condition criteria - C, D, F, G and H.						
Heathland and shrub	Mixed scrub	0.1342	Medium	Good	location ecologically desirable but not in local strategy	Standard time to target condition applied	10	Low	1.24	Will aim to pass condition criteria - A, B, C, and E.						
Heathland and shrub	Mixed scrub	0.0172	Medium	Good	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	10	Low	0.14	Will aim to pass condition criteria - A, B, C, D, E, F, G and H.						
Lakes	Franks (non-priority habitat)	0.0158	Medium	Good	location ecologically desirable but not in local strategy	Standard time to target condition applied	5	Low	0.17	Will aim to pass condition criteria - A, B, C, D, E, F, G and H.						
Urban	Roofscape	0.0711	Low	Good	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	3	Medium	0.28	Will aim to pass condition criteria - A, B, C, D, E, and F.						
Urban	Developed land, sealed surface	0.1185	V Low	N/A - Other	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	0	Medium	0.00							
Grassland	Other neutral grassland	0.596	Medium	Medium	location ecologically desirable but not in local strategy	Standard time to target condition applied	5	Low	0.49	Modified grassland to be sown around the development footprint. Will aim to pass condition criteria - A, B, C, D, E, F, G and H.						
Urban	Sustainable drainage system	0.1461	Low	Good	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	6	Medium	0.95	Will aim to pass condition criteria - A, B, C, D, E, F, G and H.						
Urban	Vegetated garden	0.9543	Low	Condition Assessed N/A	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	1	Low	1.84							
Individual trees	Urban tree	0.2640	Medium	Poor	Area/composition not in local strategy/ no local strategy	Standard time to target condition applied	10	Low	0.74	10 small urban trees planted within the development footprint. Will aim to pass condition criteria - B and D.						
Individual trees	Rural tree	0.3054	Medium	Medium	location ecologically desirable but not in local strategy	Standard time to target condition applied	27	Low	1.03	10 small native tree trees planted within PCS. Will aim to pass condition criteria - A, B, C, D, E, F, G and H.						

Total habitat area	0.81
Site Area (including area of individual trees and grass swards)	4.06
MP to enhance conservation look	Rebut a unit Rebut one Rebut one MP

Project Name: Land West of Pingford Road, Caversham		Map Reference:
B-1 On-Site Hedge Baseline		
Crabapple / Rose Cholla	Blackthorn / Hawthorn	
Map Name	Introduction	

Hedge survey summary	
Total Net W Change	3.34
Total Net W Change	0.37%
Weighted Index Reduction	10%

Baseline ref	Hedge number	Hedge type	Length (m)	Diversity	Condition	Strategic significance	Required Action to Meet Trading Rules	Biological benefits	Retention category biodiversity value					Comments		OS reference number	
									Length retained	Length retained	Date retained	Date retained	Length lost	Date lost	User comments		Consenting body comments
1	H1	Native hedge with trees	0.022	Medium	Good	Formerly identified in local strategy	Native blackthorn/rose cholla based on length	0.30									
2	H3	Native hedge with trees	0.274	Medium	Good	Formerly identified in local strategy	Native blackthorn/rose cholla based on length	0.78	0.214	0.00	3.78	0.00	0.00				
3	H2	Native hedge	0.082	Low	Good	Formerly identified in local strategy	Native blackthorn/rose cholla based on length	0.02	0.082	0.00	0.02	0.00	0.00				
4																	
5																	
6																	
7																	
8			0.26					4.88	0.80	0.00	0.00	4.08	0.00	0.30			

Project Name: Lead West of Pringford Road, Caversfield Map Reference:
B-2 On-Site Hedge Creation

Hedge/grow summary	
Total Net User Change	3.83
Total Net % Change	80.39%
Trailing Value Included	Yes /

Condense / Show Columns Condense / Show Rows
 Main Menu Instructions

		Proposed habitats		Disturbance	Condition	Strategic alignment	Temporal multiplier			Difficulty risk multiplier	Hedge units delivered	Comments		OS reference number
Baseline ref	New hedge number	Habitat type	Length (m)	Disturbance	Condition	Strategic alignment	Standard or adjusted time to target condition	Final time to target condition (years)	Final difficulty of creation	User comments		Consulting body comments		
1		Species-rich native hedge/grow	0.128	Medium	Moderate	Formally identified in local strategy	Standard time to target condition applied	5	Low	0.59	Species-rich native hedge/grow planting along an existing boundary.			
2		Non-native and ornamental hedge/grow	0.49	Very Low	Poor	Non-compliance risk to local strategy re local strategy	Standard time to target condition applied	1	Low	0.47	Ornamental hedge/grow planting around the site.			
3														
4														
5														
6			0.62								1.47			

Appendix EDP 3 Habitat Condition Assessment Tables

Baseline Habitats

Table EDP A3.1: Summary of Condition Assessment for On-site Baseline Habitats.

Baseline Habitat	Field/Parcel ID	Assessment Criteria Passed	Condition Assessment Result	Condition Assessment Score
Area Habitats				
Modified Grassland	F4 and F5	A (species diversity), B (varied sward height), C (scrub cover), D (physical damage), E (bare ground), F (bracken cover) and G (absence of invasive species).	Passes 6 or 7 of 7 criteria including passing essential criterion A.	Good
Modified Grassland	F6 and F8	C, D, E, F and G.	Passes 3 or fewer criteria; OR Passes 4 – 6 criteria (but failing criterion A).	Poor
Modified Grassland	F9	C, D, F and G.	Passes 3 or fewer criteria; OR Passes 4 – 6 criteria (but failing criterion A).	Poor
Modified Grassland	F1 and F2	A, C, D and E.	Passes 3 or fewer criteria; OR Passes 4 – 6 criteria (but failing criterion A).	Poor
Other Neutral Grassland	F3	A, C, D and E.	Passes 3 – 5 criteria including essential criterion A. Fails additional criterion F required for good condition.	Moderate
Other Neutral Grassland	F3b	A (good habitat representation), B (varied sward height), C (bare ground cover), D (bracken cover) and E (physical damage).	Passes 3 – 5 criteria including essential criterion A. Fails additional criterion F required for good condition.	Moderate
Other Neutral Grassland	F7	A, C, D and E.	Passes 3 – 5 criteria including essential criterion A. Fails additional criterion F required for good condition.	Moderate
Mixed Scrub		A (good habitat representation), C (invasives) and D (well-developed edge).	Passes 3 or 4 criteria.	Moderate

Baseline Habitat	Field/Parcel ID	Assessment Criteria Passed	Condition Assessment Result	Condition Assessment Score
Pond (Non-Priority)	P1 and P2	A (water quality), C (duckweed cover), D (artificial connection to other waterbodies), E (water levels), F (invasives) and I (shading).	Passes 6 to 8 criteria.	Moderate
Ruderal/Ephemeral	N/A	B (plant diversity) and C (invasives).	Passes 2 of 3 criteria.	Moderate
Hedgerows				
Native hedgerow with trees	H1	A1 (height >1.5m), A2 (width >1.5m), B1 (gap - base), B2 (gap - canopy continuity), C1 (ground cover), C3 (nutrient enrichment), D1 (invasives), D2 (current damage), E1 (tree class) and E2 (tree health).	No more than 2 failures in total; AND No more than 1 failure in any functional group.	Good
Native hedgerow without trees	H2	A1 (height >1.5m), A2 (width >1.5m), B1 (gap - base), B2 (gap - canopy continuity), C1 (ground cover), D1 (invasives) and D2 (current damage).	No more than 2 failures in total; AND No more than 1 failure in any functional group.	Good
Native hedgerow with trees	H3	A1 (height >1.5m), A2 (width >1.5m), B1 (gap - base), B2 (gap - canopy continuity), C1 (ground cover), C3 (nutrient enrichment), D1 (invasives), D2 (current damage), E1 (tree class) and E2 (tree health).	No more than 2 failures in total; AND No more than 1 failure in any functional group.	Good

Enhanced Habitats

Table EDP A3.2: Summary of Proposed Habitat Enhancements On-site.

Baseline Habitat			Proposed Habitat			Notes/Justification
Habitat Type	Distinctiveness	Condition	Habitat Type	Distinctiveness	Condition	
Area Habitats						
Modified Grassland	Low	Good	Lowland Meadow	V. High	Good	To ensure the effective restoration of the grassland to lowland meadow, soil sampling will be undertaken prior to any restoration works to identify if any remediation measures will be required. Additional measures to be delivered through a LEMP is to include the scarification and spreading of green hay from a suitable receptor site, and implementation of a traditional meadow management via summer hay cut and control of scrub encroachment. This area will have restricted public access, and this will be delivered through the installation of low-level post and wire fencing or similar.
Modified Grassland	Low	Good	Other neutral grassland	Medium	Good	Enhancements to be delivered through a LEMP is to include the scarification and over-sowing with species rich wildflower grassland mix (e.g. Emorsgate EM1 General Purpose Meadow Mixture, or similar), implementation of an appropriate long-term management regime and control of scrub encroachment.
Modified Grassland	Low	Poor	Other neutral grassland	Medium	Moderate	Enhancements to be delivered through LEMP is to include scarification and over-sowing with species rich wildflower grassland mix (e.g. Emorsgate EM1 General Purpose Meadow Mixture, or similar), implementation of an appropriate long-term management regime and control of scrub encroachment.

Baseline Habitat			Proposed Habitat			Notes/Justification
Habitat Type	Distinctiveness	Condition	Habitat Type	Distinctiveness	Condition	
Other Neutral Grassland	Medium	Moderate	Lowland Meadow	V. High	Good	To ensure the effective restoration of the grassland to lowland meadow, soil sampling will be undertaken prior to any restoration works to identify if any remediation measures will be required. Additional measures to be delivered through a LEMP to is to include the scarification and spreading of green hay from a suitable receptor site, implementation of a traditional meadow management via summer hay cut and control of scrub encroachment. This area will have restricted public access, and this will be delivered through the installation of low-level post and wire fencing or similar.
Other Neutral Grassland	Medium	Moderate	Other neutral grassland	Medium	Good	Enhancements to be delivered through a LEMP is to include the scarification and over-sowing with species rich wildflower grassland mix (e.g. Emorsgate EM1 General Purpose Meadow Mixture, or similar), implementation of an appropriate long-term management regime and control of scrub encroachment.
Bramble Scrub	Medium	Condition Assessment N/A	Mixed Scrub	Medium	Good	Enhancements to be delivered through a LEMP is to include the supplementary planting of at least three native scrub species and the implementation of an appropriate management regime to maintain structural and species diversity. The presence of invasive species should also be appropriately controlled.

Baseline Habitat			Proposed Habitat			Notes/Justification
Habitat Type	Distinctiveness	Condition	Habitat Type	Distinctiveness	Condition	
Mixed Scrub	Medium	Moderate	Mixed Scrub	Medium	Good	Enhancements to be delivered through a LEMP is to include the supplementary planting of native scrub species to increase diversity and the implementation of an appropriate management regime to maintain structural and species diversity. The presence of invasive species should also be appropriately controlled.
Hedgerows						
Native hedgerow with trees	Medium	Good	Species-rich native hedgerow with trees	High	Good	Enhancements to be delivered through a LEMP is to include the supplementary planting of native hedgerow species in gaps to increase diversity and implementation of an appropriate long-term management regime to maintain condition.
Native hedgerow	Low	Good	Species-rich native hedgerow	Medium	Good	Enhancements to be delivered through a LEMP is to include the supplementary planting of native hedgerow species in gaps to increase diversity and implementation of an appropriate long-term management regime to maintain condition.

Habitat Creation

Lowland Meadow

Table EDP A3.3: Target Condition for Lowland Meadow.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	Appearance and composition closely matches the characteristics of the specific grassland habitat type, based on its UKHab description. (Essential for achieving Moderate or Good condition for non-acid grassland types only)	Y	The area will be appropriately seeded to ensure the sward closely matches the characteristics of UKHab 'lowland meadow'. To ensure the effective creation of lowland meadow, soil sampling will be undertaken prior to habitat creation to identify any if any remediation measures will be required. The grassland will be subject to an appropriate long-term hay-cut management regime to maintain >10 species per m ² throughout the 30-year period.
B	Varied sward height (at least 20% <7 cm and at least 20% >7 cm)	Y	An appropriate hay-cutting management regime will be devised for this grassland to maintain structural and botanical diversity.
C	Between 1% and 5% bare ground cover, including localised areas, e.g. rabbit warrens	Y	Bare ground scrapes can be created to cover between 1–5% of the total area, to be detailed within a LEAMP at Reserved Matters stage. In addition, it can be reasonably expected that rabbit warrens will occur naturally to create areas of bare ground.
D	<20% bracken cover and <5% scrub cover	Y	Bracken cover will be controlled to <20% and scrub encroachment (including bramble) will be managed to ensure <5%, to be detailed within a LEAMP at Reserved Matters stage.
E	Combined cover of species indicative of sub-optimal condition and physical damage is <5% Criterion automatically failed if any invasive non-native species are present	Y	The presence of invasive non-native species will be controlled as detailed within the LEAMP to be conditioned.
Additional Criterion			

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
F	≥ 10 species/m ² , including forbs characteristic of the habitat type Essential for achieving Good condition for non-acid grassland types)	Y	Green-hay cuttings from a suitable receptor site, or locally sourced lowland meadow seed, will be scattered/sown within this area to enable the natural colonisation of species. Such action would be preceded by close cutting and/or scarification of the existing sward to ensure new seeds make contact with bare ground. Further details will be provided within the LEMP to be conditioned.
Condition Assessment Result		Good - Passes 5 of 6 criteria, including essential criterion A and F.	

*Abridged from 'Condition Sheet: GRASSLAND Habitat Type (medium, high and very high distinctiveness)'

Other Neutral Grassland

Table EDP A3.4: Target Condition for Other Neutral Grassland.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	Appearance and composition closely matches the characteristics of the specific grassland habitat type, based on its UKHab description (Essential for achieving Moderate or Good condition for non-acid grassland types only)	Y	The sward will closely meet the characteristics of UKHab 'other neutral grassland'. Management of the sward will ensure that perennial rye grass is present at <30%, and this habitat will be sown with a species-rich wildflower or marshy grassland seed mixture which will ensure that >10 species per m ² are present after 30 years.
B	Varied sward height (at least 20% <7 cm and at least 20% >7 cm)	N	Although an appropriate management regime will be implemented in these areas, it is considered unlikely that variety in the sward height will be consistently maintained due to the usage of these areas for recreation.
C	Between 1% and 5% bare ground cover, including localised areas, e.g. rabbit warrens	Y	Bare ground scrapes can be created to cover between 1-5% of the total area, to be detailed within a LEMP at Reserved Matters (RM) stage. In addition, it can be reasonably expected that rabbit warrens will occur naturally to create areas of bare ground, as well as some bare ground patches from foot traffic.
D	<20% bracken cover and <5% scrub cover	Y	Bracken cover will be controlled to <20% and scrub encroachment (including bramble) will be managed to ensure <5%, to be detailed within a LEMP at RM stage.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
E	Combined cover of species indicative of sub-optimal condition and physical damage is <5% Criterion automatically failed if any invasive non-native species are present	N	Although undesirable species will be managed within the LEMP and attempts to minimise physical damage will be made through installation of signage and limiting access for recreational activities, it is expected that this criterion may be failed due to the nature of the location of these habitats within a residential area.
Additional Criterion			
F	≥ 10 species/m ² , including forbs characteristic of the habitat type (Essential for achieving Good condition for non-acid grassland types)	Y	The species mix to be sown will be a species rich wildflower grassland mix such as Emorsgate Standard General-Purpose Meadow Mixture EM2, which includes 20 species. Management prescriptions detailed within the LEMP produced at RM stage will also aim to ensure that this criterion is met.
Condition Assessment Result		Moderate - Passes 4 of 6 criteria.	

*Abridged from 'Condition Sheet: GRASSLAND Habitat Type (medium, high and very high distinctiveness)'

Modified Grassland

Table EDP A3.5: Target Condition for Modified Grassland – Moderate Condition.

Condition Assessment Criteria*		Criteria to be met? (Y/N)	How Criteria will be Met
A	6-8 species per m ² , including at least 2 forbs (Essential for achieving Moderate or Good condition)	Y	An appropriate wildflower grassland seed mix will be sown in these areas which will contain between six - eight species per m ² on average across the grassland.
B	Varied sward height (at least 20% <7 cm and at least 20% >7 cm)	N	Given its location, it has been assumed that the sward will be regularly mown and maintained below 7cm.
C	<20% scrub cover	Y	Any encroaching scrub will be managed and removed as detailed within the LEMP produced at RM stage.
D	Physical damage evident in <5% of total area	N	Given the location of this planting, physical damage from amenity usage is likely. Excessive bare ground cover occurring from repeated trampling will be resown as detailed within the LEMP produced at RM stage.

Condition Assessment Criteria*		Criteria to be met? (Y/N)	How Criteria will be Met
E	Cover of bare ground between 1% and 10%, including localised areas.	Y	It can be reasonably expected that rabbit warrens will occur naturally to create areas of bare ground. Excessive bare ground cover occurring from repeated trampling will be resown as detailed within the LEMP produced at RM stage.
F	<20% bracken cover	Y	Bracken cover will be controlled to <20% to be detailed within a LEMP at RM stage.
G	Invasive non-native plant species absent	Y	The presence of invasive non-native species will be controlled as detailed within the LEMP to be produced at RM stage.
Condition Assessment Result		Moderate - Passes 5 of 7 criteria, including essential criteria A.	

*Abridged from 'Condition Sheet: GRASSLAND Habitat Type (low distinctiveness)'

Table EDP A3.6: Target Condition for Modified Grassland - Poor Condition.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	6-8 species per m2, including at least 2 forbs (Essential for achieving Moderate or Good condition)	N	It is assumed that the habitat will be sown with a typical species poor amenity grassland mix, which will fail to support between six - eight species per m2 on average across the grassland.
B	Varied sward height (at least 20% <7 cm and at least 20% >7 cm)	N	Given its amenity use it is assumed that the sward will be regularly mown and maintained below 7cm.
C	<20% scrub cover	Y	Any encroaching scrub will be managed and removed as detailed within the LEMP produced at RM stage.
D	Physical damage evident in <5% of total area	N	Due to use of these areas for amenity purposes, it cannot be guaranteed that physical damage will comprise of <5% of the total area.
E	Cover of bare ground between 1% and 10%, including localised areas,	Y	It can be reasonably expected that rabbit warrens will occur naturally to create areas of bare ground. Excessive bare ground cover occurring from repeated trampling will be resown as detailed within the LEMP produced at RM stage.
F	<20% bracken cover	Y	Bracken cover will be controlled to <20% to be detailed within a LEMP at RM stage.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
G	Absence of invasive non-native plant species.	Y	The presence of invasive non-native species will be controlled as detailed within the LEMP to be produced at RM stage.
Condition Assessment Result		Poor - Passes 4 out of 7 criteria, not including essential criterion A.	

*Abridged from 'Condition Sheet: GRASSLAND Habitat Type (low distinctiveness)'

Traditional Orchard

Table EDP A3.7: Target Condition for Traditional Orchard.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	Presence of ancient and or veteran trees. Note - this criterion is essential for achieving Good condition.	N	Given the age classes of the trees to be planted, they are not likely to qualify as mature or veteran at 30 years.
B	Presence of deadwood in or on trees, or on the ground: at least 20% of mature trees have deadwood associated with them. Some examples of deadwood are: standing, attached and fallen trees or limbs; dead stems; branches and branch stubs greater than 10 cm diameter; and internal cavities. The types and distribution of deadwood provide a range of habitats suitable to support a wide assemblage of saproxylic invertebrates. Note - this criterion is essential for achieving Good condition.	N	Given the ages of the trees to be planted, it is not likely that 20% of the trees will support deadwood within the 30-year period.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
C	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 occupy less than 10% of ground cover.	Y	Any encroaching scrub will be managed and removed as detailed within the LEMP produced at RM stage.
D	There is evidence of formative and or restorative pruning to maintain longevity of trees.	Y	An appropriate management regime is to be implemented within the orchard, and details will be provided within the LEMP at the RM stage
E	At least 95% of the trees are free from damage caused by humans or animals, for example browsing, bark stripping or rubbing on non-adjusted ties.	Y	The orchard will be subject to an appropriate management regime, and this is to include undertaking remediation measures if required.
F	Grassland is not overgrazed, poaching is not evident around the trees, with no more than 10% of trees poached under the canopy.	Y	An appropriate management regime is to be implemented within the orchard, and details will be provided within the LEMP at the RM stage.
G	Species richness of the grassland is equivalent to a medium, high, or very high distinctiveness grassland.	Y	The ground layer will be sown with a species rich wildflower grassland mix such as Emorsgate Standard General-Purpose Meadow Mixture EM2, which includes 20 species. Management prescriptions detailed within the LEMP produced at RM stage will also aim to ensure that this criterion is met.
H	There is an absence of invasive non-native plant species (as listed on Schedule 9 of WCA3) and species indicative of sub-optimal condition make up less than 10% of ground cover.	Y	The presence of invasive non-native species will be controlled as detailed within the LEMP to be produced at RM stage.
Condition Assessment Result		Moderate – passes 6 of 8 criteria excluding essential criterion A and B.	

*Abridged from 'Condition Sheet: Orchard'

Sustainable Drainage Systems

Table EDP A3.8: Target Condition for SuDS Features.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
Core Criteria– Applicable to all Urban Habitat Types			
A	Varied vegetation structure with no single structural habitat component or vegetation type covering >80% of total area.	Y	A variety of aquatic ecotones are to be planted within the SuDS basin and bioswales. Variety will be maintained through the implementation of an appropriate management regime.
B	Diverse range of flowering plants species that are beneficial for wildlife.	Y	The aquatic planting will comprise a diverse range of species, to include species of value to insects and include native species only. The control of non-native species will be included within the LEMP produced at RM Stage.
C	<5% cover of invasive non-native species and other detrimental species (To achieve good condition, invasive non-native species must be absent altogether).	Y	The control of non-native species will be included within the LEMP produced at RM stage to ensure that these species remain absent.
Additional Criterion – Only Applicable to Bioswale and SuDS Habitat Types			
E 1	Plant species are mostly native, and if non-native they should not be detrimental to the habitat or native wildlife.	Y	Planting scheme will comprise mostly native species or those of value to wildlife.
E 2	Vegetation comprised of plant species suited to wetland or riparian situations.	Y	Native aquatic species are to be sewn within the SuDS basin and along the margins of the bioswales.
Condition Assessment Result		Passes 3 of 3 core criteria in addition to essential criterion E.	Condition Assessment Score: Good

*Abridged from ‘Condition Sheet: URBAN Habitat Type’

Mixed Scrub

Table EDP A3.9: Target Condition for Mixed Scrub.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	Good representation of the identified habitat, with at least 80% of scrub native, and at least three native woody species.	Y	A diversity of native scrub species will be included within the detailed soft landscape scheme prepared for the site, with no one species comprising more than 75% cover. Management to be controlled via the LEMP produced at RM stage.
B	Seedlings, saplings, young shrubs and mature (ancient or veteran) shrubs are all present.	Y	An appropriate management regime will be produced to ensure a variety of age classes are present within the areas of scrub. Details will be provided within the LEMP produced at RM stage.
C	Absence of invasive non-native plant species, and species indicative of sub-optimal condition comprise <5% of ground cover.	Y	To be controlled via appropriate management secured via the LEMP produced via the LEMP produced at RM stage.
D	Well-developed edge.	Y	Targeted wildflower planting around the scrub will provide a diversity edge of tall grasses and forbs.
E	Clearings, glades or rides present.	Y	Reas of clearing, glades or ride will be created within the scrub and will be maintained through the implementation of an appropriate management regime.
Condition Assessment Result		Good – Passes 5 of 5 criteria.	

*Abridged from 'Condition Sheet: Scrub'

Pond (Non-Priority Habitat)

Table EDP A3.10: Target Condition for Pond (Non-Priority Habitat).

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
Core Criteria – Applicable to all Ponds			
A	Good water quality with clear water (low turbidity).	Y	Good water quality will be maintained through the use of reeds at the pond edge, and submerged oxygenating plants.
B	Semi-natural habitat (of at least Moderate distinctiveness) for at least 10 m from pond edge for entire perimeter.	Y	The pond will be located within an area of optimal lowland meadow.
C	<10% cover by duckweed or filamentous algae.	Y	The colonisation of the pond by filamentous algae or duckweed will be controlled via measures detailed within the LEMP secured via planning condition.
D	Not artificially connected to other waterbodies, e.g. agricultural ditches or artificial pipework.	Y	The pond will not be connected to other waterbodies.
E	Water levels able to fluctuate naturally.	Y	The pond will be designed to allow for natural water fluctuations throughout the year.
F	Absence of listed non-native plant and animal species.	Y	Non-native species and plant control measures will be detailed within the LEMP secured via planning condition.
G	Not artificially stocked with fish. Or contains a native fish assemblage at low densities.	Y	No fish will be artificially introduced into the pond, and the LEMP will include measures to control/ remove fish if they colonise naturally and are detrimental to other aquatic populations present within the pond.
Additional Criteria - Only Applicable to Non-woodland Ponds			
H	Emergent, submerged or floating plants (excluding duckweeds) should cover at least 50% of the area that is <3 m deep	Y	The pond will be planted with a range of emergent, submergent and floating species to cover at least 50% of the pond.
I	No more than 50% shaded by adjacent trees and scrub	Y	The nearby vegetation is likely to cause some shading. The total percentage is unknown at this stage however this criterion is assumed to be failed on a precautionary basis.
Condition Assessment Result:		Passes 9 of 9 criteria	Condition Assessment Score: Good

*Abridged from 'Condition Sheet: POND Habitat Type'

Urban Trees - Street Trees

Table EDP A3.11: Target Condition for Urban Trees - Street Trees.

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	Individual tree (or >70% within the block) are native species.	Y	All trees will be native species, or more than 70% will be.
B	Gaps in canopy cover <10% with no gaps >5m wide. (Individual trees automatically pass this criterion).	Y	All street trees will be planted as individual trees which automatically pass this criterion.
C	Individual tree is mature (or >50% within block are mature).	N	Given the ages of the trees they are not likely to qualify as mature or veteran at 30 years.
D	Little/no evidence of an adverse impact on tree health (e.g. from activities such as vandalism or herbicides), and no regular pruning regime so trees retain >75% of expected canopy.	N	Given the trees location, adverse impacts occurring from anthropogenic activities may occur. This criterion has been failed precautionarily.
E	Micro-habitats for birds, mammals and insects are present.	N	Given the age, size, and structure of the tree 30 years after planting, micro-habitats are unlikely to occur.
F	>20% of tree canopy is oversailing vegetation beneath.	N	This criterion has been failed precautionarily on the basis that street trees are often planted within tree pits, and the canopy will over sail areas of roads/pavements/hard surfaces.
Condition Assessment Result:		Passes 0, 1 or 2 of 6 criteria	Condition Assessment Score: Poor

*Abridged from 'Condition Sheet: INDIVIDUAL TREES'

Rural Trees – POS

Table EDP A3.12: Target Condition for Rural Trees – POS

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A	Individual tree (or >70% within the block) are native species.	Y	All trees will be native species.
B	Gaps in canopy cover <10% with no gaps >5m wide (Individual trees automatically pass this criterion).	Y	All POS trees will be planted as individual trees which automatically pass this criterion.
C	Individual tree is mature (or >50% within block are mature).	N	Given the ages of the trees they are not likely to qualify as mature or veteran at 30 years.
D	Little/no evidence of an adverse impact on tree health (e.g. from activities such as vandalism or herbicides), and no regular pruning regime so trees retain >75% of expected canopy.	N	Given the trees location, adverse impacts occurring from anthropogenic activities may occur. This criterion has been failed precautionarily.
E	Micro-habitats for birds, mammals and insects are present.	N	Given the age, size, structure of the tree 30 years after planting, micro-habitats are unlikely to occur.
F	>20% of tree canopy is oversailing vegetation beneath.	Y	The surrounding habitat is likely to occur beneath the oversailing tree canopy.
Condition Assessment Result:		Passes 3 or 4 of 6 criteria	Condition Assessment Score: Moderate

*Abridged from 'Condition Sheet: INDIVIDUAL TREES'

Species-rich Native Hedgerow

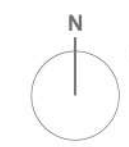
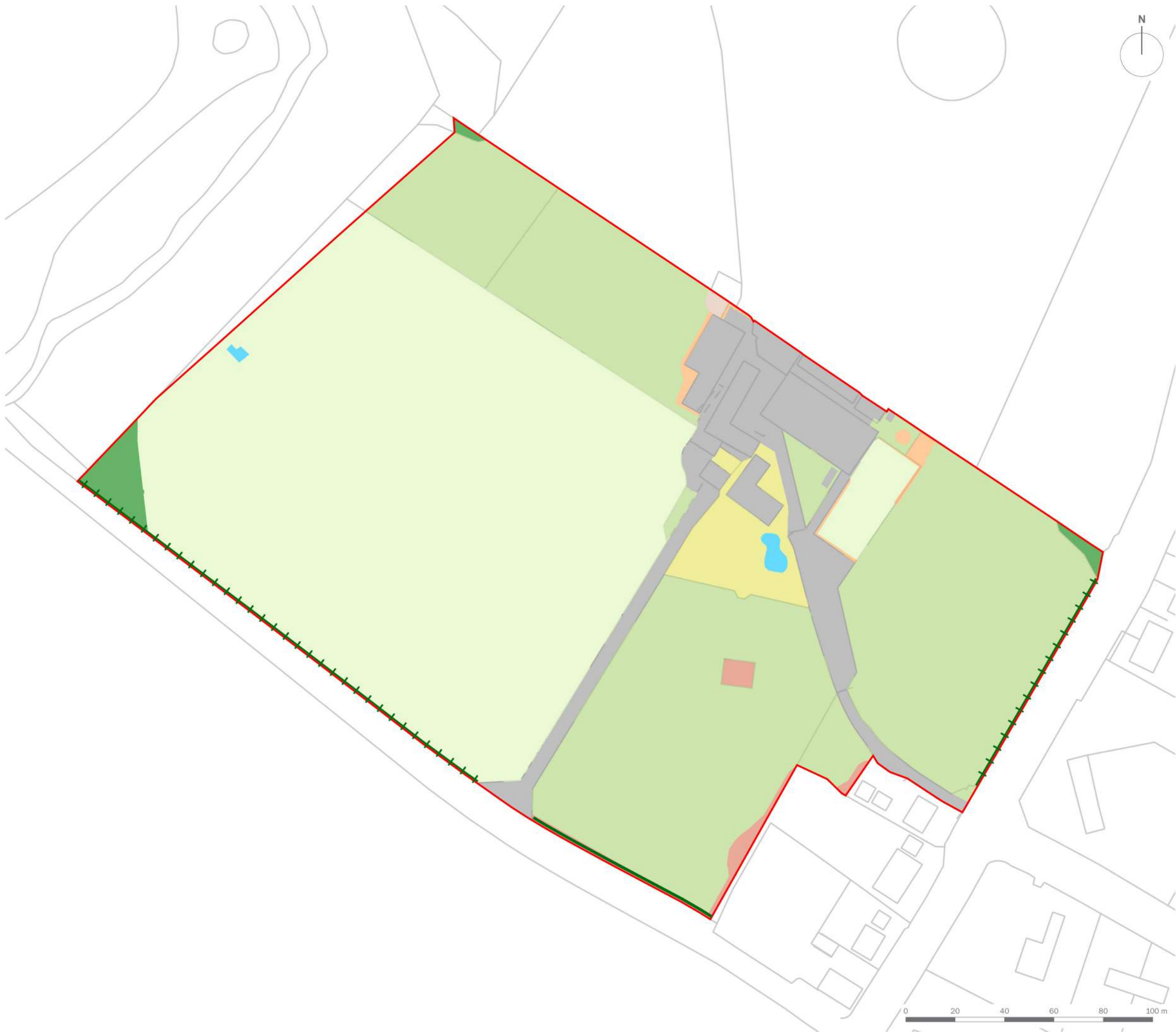
Table EDP A3.13: Target Condition for Species-rich Native Hedgerow

Condition Assessment Criteria*		Criteria to be Met? (Y/N)	How Criteria will be Met
A1	Height	Y	An appropriate management will be implemented to enable the successful establishment of the hedgerows and continued maintenance of the hedgerow height to greater than 1.5m.
A2	Width	Y	An appropriate management will be implemented to enable the successful establishment of the hedgerows and continued maintenance of the hedgerow width to greater than 1.5m.
B1	Gap – hedge base	Y	Distance from ground to lowest leaf expected to be <0.5m for >90% of hedgerow length.
B2	Gap – hedge canopy continuity	Y	Horizontal ‘gappiness’ expected to be low, with gaps making up <10% of total hedgerow length. Replacement replanting of any failures to be required through compliance with LEMP.
C1	Undisturbed ground and perennial vegetation	N	The location of proposed hedgerows immediately adjacent to new residential dwellings, within an urban environment, is likely to result in disturbance of ground.
C2	Nutrient-enriched perennial vegetation	N	The nutrient levels adjacent to the hedgerows is expected to reduce through the removal of agricultural practices on the adjacent habitats however, due to the urban setting of the hedgerows, there is potential for indirect nutrient enrichment through surface run-off.
D1	Invasive and neophyte species	Y	Presence of native and recently introduced species will be controlled through removal, secured through the LEMP.
D2	Current damage	N	Given the urban setting of hedgerows, it is reasonably expected that the hedgerow will be subject to damage caused by human activities (e.g. pollution, fly-tipping, inappropriate management).
Condition Assessment Result		Moderate - Fails a total of three criteria	

Plans

Plan EDP 1: Biodiversity Net Gain: Baseline Habitats
(edp7205_d012a 19 December 2023 JFr/EDe)

Plan EDP 2: Biodiversity Net Gain Assessment: Proposed Habitats
(edp7205_d014a 23 January 2024 JFr/EDe)



- Site Boundary
- Artificial Unvegetated, Unsealed Surface
- Bramble Scrub
- Developed Land; Sealed Surface
- Mixed Scrub
- Modified Grassland
- Other Neutral Grassland
- Ponds (Non-priority Habitat)
- Ruderal/Ephemeral
- Vegetated Garden
- Native Hedgerow
- Native Hedgerow with Trees

client
Richborough

project title
Land West of Fringford Road, Caversfield

drawing title
**Biodiversity Net Gain Assessment:
Baseline Habitats**

date	19 DECEMBER 2023	drawn by	DJo
drawing number	edp7205_d012a	checked	EDe
scale	1:1,500 @ A3	QA	JFr



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- Site Boundary
- Retained Habitats**
- Modified Grassland - Poor
- Other Neutral Grassland - Good
- Enhanced Habitats**
- Lowland Meadows - Good
- Mixed Scrub - Good
- Other Neutral Grassland - Moderate
- Species-rich Native Hedgerow - Good
- Species-rich Native Hedgerow with Trees - Good
- Created Habitats**
- Artificial Unvegetated, Unsealed Surface
- Bioswale - Good
- Developed Land; Sealed Surface
- Lowland Meadow - Good
- Mixed Scrub - Good
- Modified Grassland - Moderate
- Modified Grassland - Poor
- Other Neutral Grassland - Moderate
- Pond (Non-priority Habitat) - Good
- Sustainable Drainage System - Good
- Traditional Orchard - Moderate
- Vegetated Garden
- Species-rich Native Hedgerow - Moderate
- Non-native and Ornamental Hedgerow - Poor
- Rural Tree
- Urban Tree

client
Richborough

project title
Land West of Fringford Road, Caversfield

drawing title
**Biodiversity Net Gain Assessment:
 Proposed Habitats**

date	23 JANUARY 2024	drawn by	JFr
drawing number	edp7205_d014a	checked	EDe
scale	1:1,500 @ A3	QA	RBa



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**URBAN
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