Appendix 1:

Updated Technical Note on Biodiversity Net Gain and Updated DEFRA METRIC

1.0 TECHNICAL NOTE - BIODIVERSITY NET GAIN METRIC 4.0 CALCULATIONS

1.1 FPCR Environment and Design Ltd. (FPCR) were commissioned by Wain Estates to complete an update biodiversity offsetting assessment of the Development Framework Plan (FPCR drawing ref: 09364-FPCR-XX-ZZ-DR-L-0010 P11) and Illustrative Masterplan (FPCR drawing ref: 09364-FPCR-XX-ZZ-DR-L-0012 P07) for the proposed development on land located north of Wilderness Lane, Great Barr, Birmingham.

1.2 This Technical Note summarises the calculations and provides details regarding any assumptions made to inform this assessment.

Background

1.3 The site is approximately 27ha in size, located on the north-west edge of the town of Great Barr, Birmingham. Proposals are for an Outline planning application for up to 150 dwellings with associated access, surface water mitigation and green infrastructure including more formal landscaping and habitats designed to maximise their biodiversity value. Structural planting, including avenues of trees and grass verges will be included, in addition to the long-term retention and enhancement of the hedgerow network and extensive restoration of meadows within the west and south of the site.

1.4 The site was originally designated as a Site of Local Importance for Nature Conservation (SLINC) and following further survey work undertaken by the Wildlife Trust for Birmingham in the Black Country in 2018 was updated to SINC in August 2019.

1.5 It is possible to satisfy the requirements of the allocation avoidance as defined at Paragraph 186(a) of the NPPF (December 2023). The scheme design has sought to reduce unnecessary vegetation removal and provide appropriate mitigation within the site.

Methodology

1.1 Natural England's published biodiversity net gain metric is an MS Excel spreadsheet that is used to quantify the predicted net-change in biodiversity value ("biodiversity units") of a proposed development site before and after development. It treats the flat "habitats" and linear features "hedgerows" separately, and is based on pre-determined values, along with published written guidance, set by a Natural England-led team of experts. The BNG assessment was undertaken in accordance with the Defra Biodiversity Metric 4.0. This was the current metric at the time of survey, with Natural England (NE) guidance[1] stating *'You should use the most current published version of the Biodiversity Metric, unless specified otherwise by the consenting body'*.

1.2 The site boundary, results of the updated habitat survey undertaken in May 2024, Development Framework Plan (FPCR drawing ref: 09364-FPCR-XX-ZZ-DR-L-0010 P11) and Illustrative Masterplan (FPCR drawing ref: 09364-FPCR-XX-ZZ-DR-L-0012 P07) were used to inform this assessment.

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[1] Nash, M., Irvine R., and Panks S., (April 2022) Biodiversity Metric 3.1 Frequently Asked Question. Natural England [online] Available from: http://publications.naturalengland.org.uk/publication/6049804846366720 [Accessed 30/08/2023].

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1.3 The development site was mapped and divided into existing habitat criteria. Habitats were defined using the UK Habitat Classification, with further information providing habitat area, distinctiveness and condition, which are used to calculate the value of each habitat.

1.4 The condition assessments were undertaken using the relevant Condition Assessment Criteria within the DEFRA Biodiversity Metric 4.0 – Technical Annex 1 – Condition Assessment Sheets[2].

1.5 Full details of the calculation methodology are provided in Biodiversity Metric 4.0 – User Guide[3].

1.6 The Natural England MAGIC database was consulted to identify any areas with statutory designations, and the eCountability (Birmingham data search) was consulted for locally designated sites.

2.0   BASELINE CONDITIONS

Baseline Habitats

2.1 The site comprised 14 field compartments which predominantly comprised other neutral grassland, bound by native mature hedgerows and treelines. Smaller areas of dense bramble scrub and tall forbs were present in the north-eastern field compartments areas of mature mixed scrub around the two ponds.

2.2 Baseline habitats are provided within Table 1 below and are depicted on Figure 1: Biodiversity Net Gain Baseline Habitats. An update assessment of the grassland is detailed within the separate Technical Note[4] and condition score are detailed at Appendix A. The metric valued the baseline habitats at 185.68 habitat units and 47.93 hedgerow units. The metric summary is provided at Appendix B.

Desk Study and Ecological Strategic Significance

2.3 The whole of the site falls within the Peakhouse Farm SINC designation. The designation was updated from a partial SLINC based upon the extensive network of native hedgerows, moderate levels of structural and botanical diversity of the grassland and local faunal populations it supports, including breeding birds and bats. The site also lies within a core ecological area as identified by the Brimingham and Black Country Nature Improvement Area ecological network mapping. Therefore, all grassland, hedgerow and ponds habitats have been assigned a high strategic significance. The areas of scrub provided connectivity to habitats within the site that are covered by the designation and have been assigned a medium strategic significance. The remaining tall forbs and buildings have been assigned a low strategic significance multiplier.

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[2] Natural England (2023) The Biodiversity Metric 4.0 -Technical Annex 1 – Condition Assessment Sheets and Methodology [Online] Available at: https://publications.naturalengland.org.uk/publication/6049804846366720 [Accessed 29/08/2023]

[3] Natural England (2023) The Biodiversity Metric 4.0 User Guide[Online] Available at: https://publications.naturalengland.org.uk/publication/6049804846366720 [Accessed 29/08/2023]

[4] FPCR (2024) Land north of Wilderness Lane, Great Barr, Birmingham. Update Grassland Survey Technical Note.

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Table 1: Summary of Existing Baseline Habitat Value

Habitat type	Area (ha)	Distinctiveness	Condition	Biodiversity units
Grassland: Other neutral grassland	12.511	Medium	Moderate	100.78
Grassland: Other neutral grassland	7.6929	Medium	Fairly Poor	53.08
Grassland: Other neutral grassland	5.3991	Medium	Poor	24.84
Grassland: Modified grassland	0.3537	Medium	Moderate	1.63
Grassland: Bracken	0.0437	Medium	Condition Assessment N/A	0.10
Lakes: Ponds (non-priority habitat)	0.079	Medium	Moderate	0.73
Heathland and shrub: Mixed scrub	0.1482	Medium	Moderate	1.30
Heathland and shrub: Mixed scrub	0.1399	Medium	Poor	0.62
Heathland and shrub: Bramble	0.3459	Medium	Condition Assessment N/A	1.38
Sparsely vegetated land: Tall forbs	0.2756	Medium	Poor	1.42
Urban: Developed land; sealed surface	0.0081	Medium	Moderate	0.00
Individual trees: Rural tree	0.0733	Medium	Moderate	0.67
Total	**27.00**			**185.68**

Please note there may be minor discrepancies (rounding errors) between the columns and the totals, however, the numbers duplicate those presented within the matrix calculator. The total provided also <u>excludes</u> individual trees.

Hedgerows

1.7   A network of 33 hedgerows and five tree lines border the field compartments. These were largely unmanaged at the time of the survey, comprising tall outgrown hedgerows of varying species composition. All hedgerows were considered to be habitats of principle importance (HPIs) (Natural Environment and Rural Communities Act (2006) Section 41) on account of them supporting >80% native species and were considered to be mostly of moderate to high nature conservation value. Typical of most Midlands hedges, hawthorn *Crataegus monogyna* represented the main shrub with blackthorn, hazel *Corylus avellana*, ash *Fraxinus excelsior*, field maple *Acer campestre* and elder *Sambucus nigra* also well represented.

1.8   The vast majority of the network is to be retained, except for minor losses of H22, H29, H30, H31, TL1 and TL4 to facilitate the access. The hedgerow type and associated details plus the biodiversity units for each hedgerow on site have been calculated and are presented in Table 2 below. Hedgerow references are indicated on Figure 1.

Table 2: Existing On-Site Hedgerows Biodiversity Units

Habitat	Length (km)	Condition	Biodiversity Units
H1 Native hedgerow	0.184	Good	1.27
H2 Native hedgerow	0.12	Good	0.83
H3 Native hedgerow - associated with bank or ditch	0.096	Moderate	0.88
H4 Native hedgerow with trees	0.062	Good	0.86
H5 Native hedgerow - associated with bank or ditch	0.12	Good	1.66
H6 Native hedgerow	0.123	Good	0.85
H7 Species-rich native hedgerow with trees - associated with bank or ditch	0.129	Good	3.56
H8 Native hedgerow	0.051	Good	0.35
H9 Native hedgerow - associated with bank or ditch	0.056	Good	0.77

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H10 Native hedgerow with trees - associated with bank or ditch	0.165	Good	3.42
H11 Native hedgerow with trees - associated with bank or ditch	0.119	Good	2.46
H12 Species-rich native hedgerow with trees - associated with bank or ditch	0.147	Moderate	2.70
H13 Native hedgerow with trees - associated with bank or ditch	0.149	Good	3.08
H14 Native hedgerow with trees - associated with bank or ditch	0.081	Good	1.12
H15 Native hedgerow with trees	0.178	Moderate	1.64
H16 Native hedgerow with trees - associated with bank or ditch	0.214	Good	4.43
H17 Native hedgerow	0.165	Good	1.14
H18 Native hedgerow	0.052	Good	0.36
H19 Native hedgerow	0.043	Good	0.30
H20 Native hedgerow	0.06	Moderate	0.28
H21 Native hedgerow	0.138	Good	0.95
H22 Native hedgerow	0.069	Good	0.48
H23 Native hedgerow with trees	0.087	Moderate	0.80
H24 Native hedgerow with trees	0.053	Good	0.73
H25 Native hedgerow with trees	0.071	Good	0.98
H26 Native hedgerow with trees	0.122	Good	1.68
H27 Native hedgerow with trees	0.097	Good	1.34
H28 Native hedgerow	0.025	Moderate	0.12
H29 Native hedgerow	0.099	Good	0.68
H30 Native hedgerow	0.036	Good	0.25
H31 Native hedgerow with trees	0.083	Good	1.15
H32 Native hedgerow	0.196	Good	1.35
H33 Non-native and ornamental hedgerow	0.046	Poor	0.05
TL1 Line of trees - associated with bank or ditch	0.42	Moderate	1.93
TL2 Line of trees	0.074	Moderate	0.34
TL3 Line of trees	0.16	Poor	0.37
TL4 Line of trees	0.097	Moderate	0.45
TL5 Line of trees	0.339	Good	2.34
Totals	**4.53**		**47.93**

Please note there may be minor discrepancies (rounding errors) between the columns and the totals, however, the numbers duplicate those presented within the matrix calculator.

3.0 PROPOSED DESIGN

Habitats

Retention and Enhanced

3.1 Habitat retention and enhancement is illustrated in Figure 3. The proposed development has been carefully designed with a sensitive landscape design to retain the habitats of highest distinctiveness and condition where possible, including the fields with the highest botanical interest in the south of the site. The development parcels have been located within the fields which comprised grassland of poor

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quality, particularly within the north-eastern field compartments (F6 & F11) where swards have become rank and are being encroached by bramble scrub and tall forbs. Smaller losses of moderate condition grassland within field F5 will result from the creation of the LEAP and attenuation basins, however the surrounding grassland is to be restored. To provide compensation for these losses the field compartments within the south and west of the site which were also considered to be in decline will be brought under appropriate management and restored. These include field compartments F1-F4, F9 and F12. Areas adjacent to the informal footpaths around the perimeter of the site are to be retained.

Habitat Creation

3.2   Habitat creation is shown in Figure 4. Due to the high-level, conceptual nature of the design layout at this stage, in order to carry out a Biodiversity Impact Assessment, the following assumptions/recommendations have been made:

- Assumed a 70:30 split for the Proposed Residential Development parcels (hardstanding/buildings: garden/planting);

- Retained corridors around the residential areas to comprise modified grassland that could achieve 'moderate' condition;

- LEAP assumed to be hardstanding;

- SuDS basins can be sensitively designed with marginal shelves, aquatic and marginal planting with areas of permanent water to go above their primary function and to be of value to local fauna and thereby function as 'non-priority ponds'. Soils from marshy grassland soils are to be translocated to increase the amount of marshy grassland within the site which is currently in decline;

- That the majority of the enhanced grassland can achieve 'good' condition;

- New areas of mixed scrub could achieve 'moderate' condition;

- That all retained hedgerows in 'moderate' condition could be enhanced to 'good' condition; and

- Urban trees planted within the residential areas will comprise a native, small sized standards that could achieve 'moderate' condition.

3.3   The biodiversity units for each habitat on the Site have been calculated and are presented in Table 3, along with a description of the management recommendations which will be employed to achieve the target conditions for each habitat type.

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Table 3: Summary of Proposed Habitat Creation and Enhancement

Habitat (UKHab Type)	Targets for Creation/Management	Area (ha)	Target Condition	Distinctiveness	Biodiversity Units
Other neutral grassland (Enhanced)	The areas of retained existing grassland within the south of the eastern compartment will be enhanced through favourable management to target good condition grassland through the adoption of the following management practices: • Overseeding with a Species-rich Meadow Seed Mix as per the Landscape Strategy Plan, to include introduction of yellow rattle to reduce vigour of grasses and allow less competitive species to spread; • Creation of colonization gaps through raking or chain harrowing to break up the sward and expose some bare ground without substantial disturbance of soils to allow new seed to germinate; • Management will be reduced to create a varied sward height, taking a late hay cut to allow plants to set seed; • The seed mix will contain a sufficient number of species to encourage the establishment of grassland with a minimum of 10 species per m^2; and • Removal of any bracken, bramble, or scrub clumps.	9.2094 (Moderate) 7.6929 (Fairly Poor) 4.0228 (Poor)	Good Good Good	Medium	92.24 62.82 34.30
Modified grassland	The flowering grassland areas will in part be managed as amenity grasslands, but this should include addition management prescriptions to focus on achieving good condition through the following measures: • Using Naturescape N14 'Flowering Lawn Mixture' or similar containing 12 species to encourage at least 6-8 species per m^2; • Ensuring management encourages a varied sward height, particularly during the spring/summer; • Regular management to prevent scrub/bracken encroachment; • Reseeding any areas of failed establishment.	1.8711	Moderate	Low	7.14
Other neutral grassland	Areas of other neutral grassland will be restored around the attenuation basins. Management will focus on maximizing their biodiversity to create a diverse sward by employing the following management measures: • Using a native species rich seed mix to achieve a diverse sward; • Management will be reduced to create a varied sward height, following the suppliers' specifications with one cut per year following establishment;	0.7231	Moderate	Medium	5.57

	• The seed mix will contain a sufficient number of species to encourage the establishment of grassland with a minimum of 9 species per m^2; • Reseeding any areas of failed establishment; and • Removal of any bracken, bramble, or scrub clumps.				
Mixed scrub	Areas of native scrub planting will be incorporated around the attenuation basin to contribute to a mosaic of habitats and promote a diversity of plants and structure within the Site. These will be managed to achieve moderate condition through the following measures: • Planting will ensure a diversity of species with within blocks of scrub with no one species comprising more than 75% cover; • The borders of scrub will be subject to relaxed management extended at least 2m from the scrub edge to encourage a diverse interface between habitats; • Replacement planting of failed specimens during establishment period; and • Additional planting after 10 years where natural regeneration has not been successful.	0.35	Moderate	Medium	2.58
Ponds (non-priority habitat)	The attenuation features will be designed to hold a degree of standing water throughout the year to create ponds that will be planted with marginal vegetation to create diverse features. Soils from areas of marshy grassland to be affected are to be translocated to increase this resource within the site. The following management prescriptions will be employed to reach the target condition: • The features will be designed to allow water levels to fluctuate naturally through the year. • The ponds will not be stocked with fish and they will be monitored to ensure that fish are not introduced • Management of nearby habitats will be free from fertilizer input to prevent eutrophication of the ponds. The ponds will be monitored for the establishment of duckweed and this will be removed where it becomes prevalent Marginal vegetation will be introduced and allow to establish such that it covers at least 50% of the ponds area that is less than 3m deep.	0.5169	Moderate	Medium	4.09
Vegetated garden / planting	Private garden areas and classified in poor condition. Estimated at 30% of the development parcels.	1.179	Poor	Low	2.26
Urban trees	A minimum of 70 small standards total are to be planted across the Site within the development footprint. Each individual tree will be targeted to moderate condition via the management prescriptions below: • All trees should be native species or native cultivars;	0.3013	Moderate	Medium	0.92

	• If planted in groups, the distance between centres should be set such that the expected canopies should be less than 5m apart; • Relaxed management removing only branches that pose a risk to traffic/pedestrians such that trees retain more than 75% of the expected canopy size for the corresponding age; and • Planted with verges or green infrastructure such that at least 20% of the ground beneath each tree is vegetated.				

Hedgerows

Retained / Enhanced Hedgerows

3.4   The vast majority of the hedgerows and treelines are to be retained in their entirety and maintained through a commitment towards their long-term management with the aim of maximising their biodiversity value. The following measures will be employed within the Site Boundary to enhance the existing hedgerows:

- Hedgerows will be subjected to reduced management to encourage the establishment of tall, bushy hedgerows;

- Additional planting of a range of native hedgerow species will be carried out within retained hedgerows to close up gaps where they develop and create more continuously dense and bushy features;

- Fertiliser use will be prohibited within grasslands adjacent to hedgerows to prevent nutrient enrichment as a result of the Site management operations; and

- A minimum of 1m adjacent the hedgerows will be managed as 'undisturbed' ground where possible within the Site boundary. Management of grasslands within these areas adjacent to hedgerows will be in line with the management of meadow grasslands.

Hedgerow Creation

3.5   The proposals include the creation of three new lengths of native species-rich hedgerows with trees to reinstate historical hedgerow boundaries that have been removed. These will enhance the retained hedgerow network and provide additional connectivity around the site.

3.6   Native species-rich hedgerows will be planted to ensure they provide a diverse range of species along their length. In particular, these will target the southern boundary to link the existing retained hedgerows and provide a continuous feature linking the treeline along the western boundary and area of offsite woodland.

3.7   Altogether, 0.36km of native hedgerow planting will be carried out which will be managed a target condition of moderate, generating a total of 3.67 hedgerow units. Management will include the following measures:

- Failed specimens will be replaced during establishment on a like-for-like basis;

- Hedgerows will be managed to encourage tall, wide and bushy features with only one side of hedgerows cut each year;

- Fertiliser use will be prohibited within grasslands in the Site Boundary that are adjacent to hedgerows to reduce nutrient enrichment; and

- A minimum of 1m adjacent to the hedgerows will be managed as 'undisturbed' ground where possible. Management of grasslands within these areas adjacent to hedgerows will be in line with the management of meadow grasslands.

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4.0   RESULTS AND CONCLUSION

4.1   The habitat retention, enhancement and creation proposals highlighted within this report have all been inputted into the Biodiversity Metric 4.0. Table 7 provides a summary of the headline results of the biodiversity metric 4.0 assessment completed for the proposals. The full metric has been provided separately.

Table 4: Biodiversity Metric 4.0 Headline Results

Baseline	Habitat Units	185.68
	Hedgerow Units	47.93
Post-Intervention	Habitat Units	234.11
	Hedgerow Units	53.12
Total Net Unit Change	Habitat Units	**+48.44**
	Hedgerow Units	**+5.18**
Total Net Percentage Change	Habitat Units	**26.09%**
	Hedgerow Units	**10.81%**

1.9   As shown in Table 7, assessment has demonstrated proposals will lead to a net gain of 48.93 habitat units, representing a 26.06% gain through the retention of habitats of high value and the habitat enhancement and creation measures outlined above.

1.10   The proposed development retains most of these hedgerows although 0.17km will be lost to facilitate access roads/footpaths. The enhancement of retained hedgerows and additional habitat creation and enhancements proposals will lead to an additional 5.18 hedgerow units equating to a 10.81% gain in the Site's hedgerow resource.

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Appendix A: Baseline Habitat Condition Assessments

Other Neutral Grassland - Grassland (medium distinctiveness)

Condition Criteria	Grassland Reference							
	F1		F1a		F2		F3a	
	Criteria	Notes	Criteria	Notes	Criteria	Notes	Criteria	Notes
A The grassland is a good representation of the habitat type it has been identified as, based on its UKHab description - the appearance and composition of the vegetation closely matches the characteristics of the specific grassland habitat type. Indicator species listed by UKHab for the specific grassland habitat type are consistently present. **N.B. this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.**	Fail	Only 46.86% fit to MG6b so does not closely affiliate to NVC community. Indicator species not consistently present	Pass	57.67% fit to MG6b and therefore g3c6 Lolium-Cynosurus neutral grassland.	Pass	55.43% fit to MG6b and therefore g3c6 Lolium-Cynosurus neutral grassland	Pass	53.17% fit to MG10 and therefore g3c8 Holcus-Juncus neutral grassland
B 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) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	Fail	A lack of recent management had resulted in a tall sward with little variation in height.	Fail	A lack of recent management had resulted in a tall sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.
C Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	Pass		Pass		Pass		Pass	
D Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.	Pass	No bracken & scrub <5%.	Pass	No bracken or scrub.	Pass	No bracken or scrub.	Pass	No bracken or scrub.
E Combined cover of species indicative of sub-optimal condition2 and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species (as listed on Schedule 9 of WCA4) are present, this criterion is automatically failed.	Pass	Species indicative of sub-optimal condition averaged at 0.8% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0.33% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0.2% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 1.03% across the quadrats and no INNS present.
F There are 10 or more vascular plant species per m2 present, including forbs that are characteristic of the habitat type (species referenced in Footnote 2 and 4 cannot contribute towards this count). **N.B. this criterion is essential for achieving Good condition for non-acid grassland types only.**	Fail	Average of 7.2 species when species indicative of sub-optimal condition excluded.	Fail	Average of 9.4 species.	Fail	Average of 9.8species when species indicative of sub-optimal condition excluded.	Fail	Average of 9.7 species.
Total Passes	2		4 excluding F		4 excluding F		4 excluding F	
Condition	Poor		Moderate		Moderate		Moderate	

Condition Assessment Result	Condition Assessment Score
Passes 5 or 6 of 6 criteria, including essential criteria A and F	Good (3)
Passes 3 or 4 of 6 criteria, including essential criteria A	Moderate (2)
Passes 0, 1 or 2 of 6 criteria; OR Passes 3 or 4 criteria excluding A and F	Poor (1)

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Other Neutral Grassland - Grassland (medium distinctiveness)

Condition Criteria	Grassland Reference							
	F3b		F4		F5		F6	
	Criteria	Notes	Criteria	Notes	Criteria	Notes	Criteria	Notes
A The grassland is a good representation of the habitat type it has been identified as, based on its UKHab description - the appearance and composition of the vegetation closely matches the characteristics of the specific grassland habitat type. Indicator species listed by UKHab for the specific grassland habitat type are consistently present. **N.B. this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.**	Pass	53.17% fit to MG10 and therefore g3c8 Holcus-Juncus neutral grassland	Half pass	49.04% fit to MG6b and therefore g3c6 Lolium-Cynosurus neutral grassland but indicator species not constant.	Half pass	50.27 fit to MG6b and therefore g3c6, but doesn't meet the broad criteria for g3c with less than 8 species per m² and <20% forbs. Half passes the criteria.	Fail	Resembles species-poor MG1 community but indicator species not constant and doesn't meet the broad criteria for g3c6 with less than 8 species per m² and <20% forbs.
B 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) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Pass	More natural variability.
C Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	Pass		Fail	Bare ground <1%	Pass		Fail	Bare ground <1%
D Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.	Pass	No bracken & scrub <5%.	Pass	No bracken or scrub.	Pass	No bracken or scrub.	Pass	Some scrub encroachment but <5%.
E Combined cover of species indicative of sub-optimal condition2 and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species (as listed on Schedule 9 of WCA4) are present, this criterion is automatically failed.	Pass	Species indicative of sub-optimal condition averaged at 0.38% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 1.4% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0.66% across the quadrats and no INNS present.
F There are 10 or more vascular plant species per m2 present, including forbs that are characteristic of the habitat type (species referenced in Footnote 2 and 4 cannot contribute towards this count). **N.B. this criterion is essential for achieving Good condition for non-acid grassland types only.**	Fail	Average of 9.1species when species indicative of sub-optimal condition excluded.	Fail	Average of 9.4 species when species indicative of sub-optimal condition excluded.	Fail	Average of 7.4 species when species indicative of sub-optimal condition excluded.	Fail	Average of 5.3 species when species indicative of sub-optimal condition excluded.
Total Passes	4 excluding F		2.5 exc. F & not fully meeting A		3.5 exc. F & not fully meeting A		3 exc. A & F	
Condition	Moderate		Fairly Poor		Fairly Poor		Poor	

Condition Assessment Result	Condition Assessment Score
Passes 5 or 6 of 6 criteria, including essential criteria A and F	Good (3)
Passes 3 or 4 of 6 criteria, including essential criteria A	Moderate (2)
Passes 0, 1 or 2 of 6 criteria; OR Passes 3 or 4 criteria excluding A and F	Poor (1)

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Condition Criteria	Grassland Reference							
	F7		F8		F9		F11	
	Criteria	Notes	Criteria	Notes	Criteria	Notes	Criteria	Notes
A The grassland is a good representation of the habitat type it has been identified as, based on its UKHab description - the appearance and composition of the vegetation closely matches the characteristics of the specific grassland habitat type. Indicator species listed by UKHab for the specific grassland habitat type are consistently present. **N.B. this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.**	Fail	Does not closely affiliate to any community with neutral indicators at low abundances.	Fail	Does not closely affiliate to any community with neutral indicators at low abundances.	Fail	49.77% fit to MG6b and therefore a poor fit g3c6 Lolium-Cynosurus neutral grassland. Indicator species not consistently present.	Fail	Resembles a rank MG1 community but neutral indicators at low abundances.
B 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) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.
C Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	Pass		Pass		Fail	Bare ground <1%	Fail	Bare ground <1%
D Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.	Pass	No bracken & scrub <5%.	Pass	No bracken or scrub.	Pass	No bracken or scrub.	Pass	No bracken or scrub.
E Combined cover of species indicative of sub-optimal condition2 and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species (as listed on Schedule 9 of WCA4) are present, this criterion is automatically failed.	Pass	Species indicative of sub-optimal condition averaged at 0.2% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0.2% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition <5% and no INNS present.	Fail	No INNS present, however Species indicative of sub-optimal condition was >5% across the parcel.
F There are 10 or more vascular plant species per m2 present, including forbs that are characteristic of the habitat type (species referenced in Footnote 2 and 4 cannot contribute towards this count). **N.B. this criterion is essential for achieving Good condition for non-acid grassland types only.**	Fail	Average of 9.0 species when species indicative of sub-optimal condition excluded.	Fail	Average of 6.2 species when species indicative of sub-optimal condition excluded.	Fail	Average of 9.6 species when species indicative of sub-optimal condition excluded.	Fail	Average of 3.7 species when species indicative of sub-optimal condition excluded.
Total Passes	3 exc. A & F		3 exc. A & F		2 exc. A & F		1	
Condition	Poor		Poor		Poor		Poor	

Condition Assessment Result	Condition Assessment Score
Passes 5 or 6 of 6 criteria, including essential criteria A and F	Good (3)
Passes 3 or 4 of 6 criteria, including essential criteria A	Moderate (2)
Passes 0, 1 or 2 of 6 criteria; OR Passes 3 or 4 criteria excluding A and F	Poor (1)

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Condition Criteria	Grassland Reference					
	F12		F13		F14	
	Criteria	Notes	Criteria	Notes	Criteria	Notes
A The grassland is a good representation of the habitat type it has been identified as, based on its UKHab description - the appearance and composition of the vegetation closely matches the characteristics of the specific grassland habitat type. Indicator species listed by UKHab for the specific grassland habitat type are consistently present. **N.B. this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.**	Pass	55.31% fit to MG6b and therefore g3c6 Lolium-Cynosurus neutral grassland. Indicator species consistently present.	Fail	Potentially MG6b but indicator species not consistently present.	Fail	Does not closely affiliate to any community with neutral indicators at low abundances.
B 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) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.	Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.
C Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	Fail	Bare ground <1%	Fail	Bare ground <1%	Pass	
D Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.	Pass	No bracken or scrub.	Pass	No bracken or scrub.	Pass	No bracken or scrub.
E Combined cover of species indicative of sub-optimal condition2 and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species (as listed on Schedule 9 of WCA4) are present, this criterion is automatically failed.	Pass	Species indicative of sub-optimal condition averaged at 0.02% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0% across the quadrats and no INNS present.	Pass	Species indicative of sub-optimal condition averaged at 0.8% across the quadrats and no INNS present.
F There are 10 or more vascular plant species per m2 present, including forbs that are characteristic of the habitat type (species referenced in Footnote 2 and 4 cannot contribute towards this count). **N.B. this criterion is essential for achieving Good condition for non-acid grassland types only.**	Pass	Average of 10.6 species when species indicative of sub-optimal condition excluded.	Fail	Average of 6.8 species when species indicative of sub-optimal condition excluded.	Fail	Average of 6.6 species when species indicative of sub-optimal condition excluded.
Total Passes	4		2		3 exc. A & F	
Condition	Moderate		Poor		Poor	

Condition Assessment Result	Condition Assessment Score
Passes 5 or 6 of 6 criteria, including essential criteria A and F	Good (3)
Passes 3 or 4 of 6 criteria, including essential criteria A	Moderate (2)
Passes 0, 1 or 2 of 6 criteria; OR Passes 3 or 4 criteria excluding A and F	Poor (1)

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Modified Grassland - Grassland (low distinctiveness)

Condition Criteria	Grassland Reference		
	F10		
		Criteria	**Criteria**
A There must be 6-8 species per m², including at least 2 forbs (including those in Footnote 1). **NB - this criterion is non-negotiable for achieving moderate or good condition.**		Pass	7.9 species per m² on average across the quadrats.
B Sward height is varied (at least 20% of the sward is less than 7cm and at least 20% is more than 7cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.		Fail	A lack of recent management had resulted in a tall tussocky sward with little variation in height.
C Some scattered scrub (including bramble) may be present, but scrub accounts for less than 20% of total grassland area. Note - patches of shrubs with continuous (more than 90%) cover should be classified as the relevant scrub habitat type.		Pass	Less than 20% scrub.
D Physical damage evident in less than 5% of total grassland area, such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities.		Pass	Some damage at field access but <5% of total area.
E Cover of bare ground between 1% and 10%, including localised areas, for example, rabbit warrens.		Fail	Less than 1%.
F Cover of bracken less than 20%.		Pass	None present.
G There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981).		Pass	None present.
Total Passes	5 including A		
Condition	Moderate		

Condition Assessment Result	Condition Assessment Score
Passes 6 or 7 of 7 criteria including essential criteria A	Good (3)
Passes 4 or 5 of 7 criteria; OR Passes 6 of 7 criteria excluding essential criteria A	Moderate (2)
Passes 0, 1, 2 or 3 of 7 criteria	Poor (1)

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Condition Criteria	Scrub Reference					
	S1		S2		S3	
	Criteria	Notes	Criteria	Notes	Criteria	Notes
A Habitat is representative of UKHab description (where in its natural range). At least 80% is native and there are at least three woody species, with no one species comprising more than 75% of the cover (except hazel, common juniper, sea buckthorn or box, which can be up to 100% cover).	Fail	Dominated by bramble (>75%).	Pass	Mix of hawthorn, blackthorn, bramble and elder.	Fail	Dominated by crack willow (>75%).
B Seedlings, saplings, young shrubs and mature (or ancient or veteran) shrubs are all present.	Fail	No seedlings or saplings recorded.	Fail	No seedlings or saplings present.	Fail	No young shrubs
C 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.	Pass	No INNS but species of sub-optimal condition present at >5%	Pass		Pass	No INNS but species of sub-optimal condition present at >5%.
D The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat.	Pass	Unmanaged tall grassland present.	Pass	Unmanaged tall grassland present.	Pass	Unmanaged tall grassland present.
E There are clearings, glades or rides present within the scrub, providing sheltered edges.	Fail	Too small for clearings.	Pass	Open area where pond P2 is located.	Fail	Too small for clearings.
Total Passes	2		3		2	
Condition	Poor		Moderate		Poor	

Condition Assessment Result	Condition Assessment Score
Passes 5 criteria	Good (3)
Passes 3 or 4 criteria	Moderate (2)
Passes 2 or fewer criteria	Poor (1)

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Condition Criteria	Pond Reference			
	P1		**P2**	
	Criteria	**Notes**	**Criteria**	**Notes**
A The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.	Pass		Fail	High turbidity
B There is semi-natural habitat (moderate distinctiveness or above) completely surrounding the pond, for at least 10 m from the pond edge for its entire perimeter.	Pass		Pass	
C Less than 10% of the water surface is covered with duckweed *Lemna* spp. or filamentous algae.	Pass		Pass	
D The pond is not artificially connected to other waterbodies, e.g. agricultural ditches or artificial pipework.	Pass		Pass	
E Pond water levels can fluctuate naturally throughout the year. No obvious artificial dams, pumps or pipework.	Pass		Pass	
F There is an absence of listed non-native plant and animal species.	Pass		Pass	
G The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.	Pass		Fail	
Additional Criteria - must be assessed for all non-woodland ponds:				
H Emergent, submerged or floating plants (excluding duckweed) cover at least 50% of the pond area which is less than 3 m deep.	Pass		Fail	Very little vegetation
I The pond surface is no more than 50% shaded by adjacent trees and scrub.	Fail		Fail	
Total Passes	8		6	
Condition	Moderate		Moderate	

Condition Assessment Result for Woodland Ponds	Condition Assessment Score
Passes 7 criteria	Good (3)
Passes 5 or 6 criteria	Moderate (2)
Passes 4 or fewer criteria	Poor (1)
Condition Assessment Result for Non-Woodland Ponds	**Condition Assessment Score**
Passes 9 criteria	Good (3)
Passes 6 to 8 criteria	Moderate (2)
Passes 5 or fewer criteria	Poor (1)

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Hedgerows

Condition Criteria	Hedgerow Reference										
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11
A1 Height >1.5m average along length.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
A2 Width >1.5m average along length.	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
B1 Gap between ground and base of canopy <0.5 m for >90% of length.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
B2 Gaps make up <10% of total length and no canopy gaps >5 m.	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
C1 >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).	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
C2 Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Pass	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
D1 >90% of the hedgerow and undisturbed ground is free of invasive non-native plant species (including those listed on Schedule 9 of WCA) and recently introduced species.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
D2 >90% of the hedgerow or undisturbed ground is free of damage caused by human activities.	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
E1 There is more than one age-class (or morphology) of tree present, and there is on average at least one mature, ancient or veteran tree present per 20 – 50m of hedgerow.	n/a	n/a	n/a	Fail	n/a	n/a	Fail	n/a	n/a	Fail	Fail
E2 At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity.	n/a	n/a	n/a	Pass	n/a	n/a	Pass	n/a	n/a	Pass	Pass
Total Failures	1	2 (same functional group)	3	2	1	2	2	1	1	2	2
Condition	Good	Moderate	Moderate	Good	Good	Good	Good	Good	Good	Good	Good

Condition Assessment Result for Hedgerows without Trees	Condition Assessment Score
≤2 total failures; AND no more than 1 failure in any functional group	Good (3)
≤4 total failures; AND does not fail both attributes in more than one functional group	Moderate (2)
>4 total failures; OR fails both attributes in multiple functional groups	Poor (1)
Condition Assessment Result for Hedgerows with trees	**Condition Assessment Score**
≤2 total failures; AND no more than 1 failure in any functional group	Good (3)
≤5 total failures; AND does not fail both attributes in more than one functional group	Moderate (2)
>5 total failures; OR fails both attributes in multiple functional groups	Poor (1)

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Hedgerows

Condition Criteria	Hedgerow Reference										
	H12	H13	H14	H15	H16	H17	H18	H19	H20	H21	H22
A1 Height >1.5m average along length.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
A2 Width >1.5m average along length.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail
B1 Gap between ground and base of canopy <0.5 m for >90% of length.	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass
B2 Gaps make up <10% of total length and no canopy gaps >5 m.	Pass	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Fail	Pass	Pass
C1 >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).	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
C2 Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Fail	Fail	Fail	Fail
D1 >90% of the hedgerow and undisturbed ground is free of invasive non-native plant species (including those listed on Schedule 9 of WCA) and recently introduced species.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
D2 >90% of the hedgerow or undisturbed ground is free of damage caused by human activities.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass
E1 There is more than one age-class (or morphology) of tree present, and there is on average at least one mature, ancient or veteran tree present per 20 – 50m of hedgerow.	Pass	Fail	n/a	Fail	Fail	n/a	n/a	n/a	n/a	n/a	n/a
E2 At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity.	Fail	Pass	n/a	Pass	Pass	n/a	n/a	n/a	n/a	n/a	n/a
Total Failures	3	1	1	4	1	1	1	1	3	1	2
Condition	Moderate	Good	Good	Moderate	Good	Good	Good	Good	Moderate	Good	Good

Condition Assessment Result for Hedgerows without Trees	Condition Assessment Score
≤2 total failures; AND no more than 1 failure in any functional group	Good (3)
≤4 total failures; AND does not fail both attributes in more than one functional group	Moderate (2)
>4 total failures; OR fails both attributes in multiple functional groups	Poor (1)
Condition Assessment Result for Hedgerows with trees	**Condition Assessment Score**
≤2 total failures; AND no more than 1 failure in any functional group	Good (3)
≤5 total failures; AND does not fail both attributes in more than one functional group	Moderate (2)
>5 total failures; OR fails both attributes in multiple functional groups	Poor (1)

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Hedgerows

Condition Criteria	Hedgerow Reference										
	H23	H24	H25	H26	H27	H28	H29	H30	H31	H32	H33
A1 Height >1.5m average along length.	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Fail
A2 Width >1.5m average along length.	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
B1 Gap between ground and base of canopy <0.5 m for >90% of length.	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass
B2 Gaps make up <10% of total length and no canopy gaps >5 m.	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
C1 >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).	Fail	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
C2 Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail
D1 >90% of the hedgerow and undisturbed ground is free of invasive non-native plant species (including those listed on Schedule 9 of WCA) and recently introduced species.	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail
D2 >90% of the hedgerow or undisturbed ground is free of damage caused by human activities.	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Fail
E1 There is more than one age-class (or morphology) of tree present, and there is on average at least one mature, ancient or veteran tree present per 20 – 50m of hedgerow.	Fail	Fail	Fail	Fail	Fail	n/a	n/a	n/a	Fail	n/a	n/a
E2 At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity.	Pass	Pass	Pass	Pass	Pass	n/a	n/a	n/a	Pass	n/a	n/a
Total Failures	4	2	2	2	4	4	1	0	2	1	5
Condition	Moderate	Good	Good	Good	Moderate	Moderate	Good	Good	Good	Good	Poor

Condition Assessment Result for Hedgerows without Trees	Condition Assessment Score
≤2 total failures; AND no more than 1 failure in any functional group	Good (3)
≤4 total failures; AND does not fail both attributes in more than one functional group	Moderate (2)
>4 total failures; OR fails both attributes in multiple functional groups	Poor (1)
Condition Assessment Result for Hedgerows with trees	**Condition Assessment Score**
≤2 total failures; AND no more than 1 failure in any functional group	Good (3)
≤5 total failures; AND does not fail both attributes in more than one functional group	Moderate (2)
>5 total failures; OR fails both attributes in multiple functional groups	Poor (1)

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Line of Trees

Condition Criteria	Treeline Reference									
	TL1		TL2		TL3		TL4		TL5	
	Criteria	Notes	Criteria	Notes	Criteria	Notes	Criteria	Notes	Criteria	Notes
A At least 70% of trees are native species.	Pass		Pass		Fail	Sycamore and cherry laurel comprise >30%	Pass		Pass	Sycamore present but <30% of resource.
B Tree canopy is predominantly continuous with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide.	Pass		Pass		Pass		Pass		Pass	
C One or more trees has veteran features and or natural ecological niches for vertebrates and invertebrates, such as presence of standing and fallen deadwood.	Pass		Pass	Veteran tree present.	Fail		Pass	Trees with features to support bat roosts present.	Pass	
D There is an undisturbed naturally vegetated strip of at least 6 m on both sides to protect the line of trees from farming and other human activities (excluding grazing). Where veteran trees are present, root protection areas should follow standing advice.	Fail	Surfaced footpath borders the site to the south.	Pass		Fail	Residential boundary.	Pass		Pass	
E At least 95% of the trees are in a healthy condition (deadwood or veteran features valuable for wildlife are excluded from this). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity.	Pass		Pass		Pass		Fail	Evidence of damage from grazing horses and electric fence previously pinned to trees.	Pass	
Total Passes	4		5		2		4		5	
Condition	Moderate		Good		Poor		Moderate		Good	

Condition Assessment Result	Condition Assessment Score
Passes 5 criteria	Good (3)
Passes 3 or 4 criteria	Moderate (2)
Passes 2 or fewer criteria	Poor (1)

APPENDIX B: BIODIVERSITY METRIC 4.0 CALCULATIONS

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The Biodiversity Metric 4.0 - Calculation Tool
Start page

Project details

Planning authority:	Sandwell Metropolitan Borough Council
Project name:	Land north of Wilderness Lane, Great Barr, Birmingham
Applicant:	Wain Estates
Application type:	Residential
Planning application reference:	
Completed by:	FPCR HEH
Date of metric completion:	04.06.24
Reviewer:	FPCR KDG
Version control:	Rev A
Consenting body reviewer:	
Date of consenting body review:	
Target % net gain:	10%
Irreplaceable habitat present on-site at baseline:	No

Total site area (including irreplaceable habitat area):	27.07	Irreplaceable habitat area at baseline:	0.00

Instructions

Main menu

Results

Cell style conventions

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

View all

Reset view

On-site baseline map — Insert

On-site baseline map reference number

On-site post intervention map — Insert

On-site post-intervention map reference number

Off-site baseline map — Insert

Off-site baseline map reference number

Off-site post intervention map — Insert

Off-site post-intervention reference number

Headline Results

Return to results menu

On-site baseline	Habitat units	185.68	
	Hedgerow units	47.93	
	Watercourse units	0.00	

On-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	234.11	
	Hedgerow units	53.12	
	Watercourse units	0.00	

On-site net change (units & percentage)	Habitat units	48.44	26.09%
	Hedgerow units	5.18	10.81%
	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 (Including habitat retention, creation & enhancement)	Habitat units	0.00	
	Hedgerow units	0.00	
	Watercourse units	0.00	

Off-site net change (units & percentage)	Habitat units	0.00	0.00%
	Hedgerow units	0.00	0.00%
	Watercourse units	0.00	0.00%

Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	48.44
	Hedgerow units	5.18
	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 (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	48.44
	Hedgerow units	5.18
	Watercourse units	0.00

Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	26.09%
	Hedgerow units	10.81%
	Watercourse units	0.00%

Trading rules satisfied?	Yes ✓

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	
Habitat units	10.00%	185.68	204.24	0.00	Unit requirement met or surpassed ✓
Hedgerow units	10.00%	47.93	52.73	0.00	Unit requirement met or surpassed ✓
Watercourse units	10.00%	0.00	0.00	0.00	Unit requirement met or surpassed ✓

A-1 On-Site Habitat Baseline

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

Area habitat summary

Total Net Unit Change	48.44
Total Net % Change	26.09%
Trading Rules Satisfied	Yes ✓

> A 'Fairly' Category has been used - check evidence to ensure this is appropriate ⚠

Ref	Broad Habitat	Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic Significance multiplier	Required Action to Meet Trading Rules	Total habitat units	Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost	Bespoke compensation agreed for unacceptable losses	User comments	Consenting body comments	GIS reference number
1	Grassland	Other neutral grassland	0.908	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	4.18	0	0.908	0.00	4.18	0.00	0.00		Field F1 whole compartment to be enhanced.		F1
2	Grassland	Other neutral grassland	0.1872	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	1.72	0.1521	0	1.40	0.00	0.04	0.32		Field F1a. Area either side of proposed footpath retained.		F1a
3	Grassland	Other neutral grassland	3.2897	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	30.27	0.1771	3.0712	1.63	28.26	0.04	0.38		Field F2. The majority to be enhanced through better management, small areas adjacent to the proposed footpath to be retained.		F2
4	Grassland	Other neutral grassland	0.9191	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	8.46	0	0.9191	0.00	8.46	0.00	0.00		Field F3. Sward to be enhanced through appropriate management.		F3
5	Grassland	Other neutral grassland	0.11	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	1.01	0	0.11	0.00	1.01	0.00	0.00		Field F3a. Area to be enhanced through appropriate management.		F3a
6	Grassland	Other neutral grassland	0.8178	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	7.52	0	0.8178	0.00	7.52	0.00	0.00		Field F3b. Sward to be enhanced through appropriate management.		F3b
7	Grassland	Other neutral grassland	5.1557	Medium	4	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	35.57	0.2089	4.9468	1.44	34.13	0.00	0.00		Field F4. Only half passes essential condition criteria A. Recognisable community but indicator species not consistent. Area adjacent to the footpath to be retained, the remainder enhanced.		F4
8	Grassland	Other neutral grassland	2.5372	Medium	4	Fairly Poor	1.5	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	17.51	0	0.5639	0.00	3.89	1.97	13.62		Field F5. Only half passes essential condition criteria A. Is a recognisable MG5b community, however it doesn't pass sufficient broad criteria for g5c under UKHab ver 2 with less than 8 species per m2 and <20% cover of forbs.		F5
9	Grassland	Other neutral grassland	0.0475	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	0.22	0	0	0.00	0.00	0.05	0.22		Field F6		F6
10	Grassland	Other neutral grassland	0.8258	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	3.80	0	0	0.00	0.00	0.83	3.80		Field F7		F7
11	Grassland	Other neutral grassland	0.639	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	2.94	0	0	0.00	0.00	0.64	2.94		Field F8		F8
12	Grassland	Other neutral grassland	3.1148	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	14.33	0.5895	2.5253	2.71	11.62	0.00	0.00		Field F9. Area adjacent to the proposed footpath to be retain, the remainder brough under appropriate management and enhanced.		F9
13	Grassland	Modified grassland	0.3537	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness or better habitat required ≥	1.63	0	0	0.00	0.00	0.35	1.63		Field F10		F10
14	Grassland	Other neutral grassland	0.08	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	0.37	0	0	0.00	0.00	0.08	0.37		Field F11		F11
15	Grassland	Other neutral grassland	4.0728	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	37.47	1.2015	2.6692	11.05	24.56	0.20	1.86		Field F12. Area adjacent to the proposed footpath to be retain, the remainder brough under appropriate management and enhanced.		F12
16	Grassland	Other neutral grassland	1.7577	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	8.09	0	0	0.00	0.00	1.76	8.09		Field F13		F13
17	Grassland	Other neutral grassland	1.1411	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	5.25	0	0	0.00	0.00	1.14	5.25		Field F14		F14
18	Grassland	Bracken	0.0437	Low	2	Condition Assessment N/A	1	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness or better habitat required ≥	0.10	0	0	0.00	0.00	0.04	0.10				
19	Lakes	Ponds (non-priority habitat)	0.061	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	0.56	0.061	0	0.56	0.00	0.00	0.00		Pond P1		P1
20	Lakes	Ponds (non-priority habitat)	0.018	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	0.17	0.018	0	0.17	0.00	0.00	0.00		Pond P2		P2
21	Heathland and shrub	Mixed scrub	0.1399	Medium	4	Poor	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	0.62	0.0946	0	0.42	0.00	0.05	0.20		S1 & S3		
22	Heathland and shrub	Mixed scrub	0.1482	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required (≥)	1.30	0.0538	0	0.47	0.00	0.09	0.83		S2		
23	Heathland and shrub	Bramble scrub	0.3459	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)	1.38	0	0	0.00	0.00	0.35	1.38				
24	Sparsely vegetated land	Tall forbs	0.2756	Low	2			Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.55	0	0	0.00	0.00	0.28	0.55				
25	Urban	Developed land; sealed surface	0.0081	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00	0	0	0.00	0.00	0.01	0.00				
26	Individual trees	Rural tree	0.0733	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	0.67	0.0366	0	0.34	0.00	0.04	0.34		2 medium trees in moderate conditon. One to be retained		T1 & T2
27																						
28																						
29																						
30																						
31																						
	Total habitat area		27.07									185.68	2.59	16.53	20.19	183.62	7.95	41.87				

Site Area (Excluding area of Individual trees and Green walls): 27.00

Total area lost (excluding areas of Individual trees and Green walls): 7.91

M² to hectares conversion tool: | Select a unit | Hectares | M²

Project Name: Land north of Wilderness Lane, Great Barr, Birmingham   Map Reference:

A-2 On-Site Habitat Creation

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Area habitat summary	
Total Net Unit Change	48.44
Total Net % Change	36.00%
Trading Rules Satisfied	Yes ✓
Area Check (excluding individual trees and green walls)	Area Acceptable ✓

Post development/ post intervention habitats

Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	Habitat units delivered	User comments	Consenting body comments	GIS reference number
Urban	Developed land; sealed surface	2.737	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00	70% built development within Proposed Residential Development areas		
Urban	Vegetated garden	1.173	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	2.26	30% gardens within Proposed Residential Development areas		
Urban	Developed land; sealed surface	0.04	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00	Ancillary areas of hardstanding forming roads and footpaths around the Proposed Residential Development areas.		
Urban	Developed land; sealed surface	0.4993	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00			
Grassland	Modified grassland	1.8711	Low	2	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	4	0	0	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1	7.14	Ancillary areas of grassland surrounding the Proposed Residential Development areas and surrounding the LEAP.		
Grassland	Other neutral grassland	0.7231	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	5.57	Restored areas of grassland around the ponds.		
Grassland	Mixed scrub	0.35	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	2.98	New areas of scrub planting at the peripheries of the development and near to the LEAP.		
Heathland and shrub	Ponds (non-priority habitat)	0.5169	Medium	4	Moderate	2	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0	0	Standard time to target condition applied	3	0.899	Low	Standard difficulty applied	Low	1	4.09	Sensitively designed attenuation basins		
Individual trees	Urban tree	0.3013	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	27	0	0	Standard time to target condition applied	27	0.382	Low	Standard difficulty applied	Low	1	0.92	x74 new small trees planted around the Proposed Residential Development areas.		
	Total habitat area	8.21																	Total Units	22.56			

Site Area (Excluding area of Individual trees and Green walls)	7.91	
M² to hectares conversion tool:	Select a unit	Hectares	M²

A-3 On-Site Habitat Enhancement

Area habitat summary	
Total Net Unit Change	48.64
Total Net % Change	28.20%
Trading Rules Satisfied	Yes ✓

Baseline ref	Baseline habitat	Total habitat area (hectares)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category	Baseline strategic significance score	Baseline habitat units	Required Action to Meet Trading Rules	Proposed Broad Habitat	Proposed habitat	Distinctiveness change	Condition change	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard time to target condition (years)	Habitat enhanced in advance (years)	Delay in starting habitat enhancement (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of enhancement	Applied difficulty multiplier	Final difficulty multiplier of enhancement	Difficulty multiplier applied	Habitat units delivered	User comments	Connecting body comments	Off reference number
1	Grassland – Other neutral grassland	0.008	Medium	4	Poor	1	High strategic significance	1.15	4.18	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Poor - Good	0.008	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	0.10	Enhanced grassland within field F1		
2	Grassland – Other neutral grassland	2.0887	Medium	4	Moderate	2	High strategic significance	1.15	16.21	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Moderate - Good	2.0712	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	20.13	Enhanced grassland within field F2		
3	Grassland – Other neutral grassland	0.0161	Medium	4	Moderate	2	High strategic significance	1.15	0.46	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Moderate - Good	0.0161	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	11.44	Enhanced grassland within field F3		
4	Grassland – Other neutral grassland	0.11	Medium	4	Moderate	2	High strategic significance	1.15	1.51	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Moderate - Good	0.11	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	1.35	Enhanced grassland within field F4		
5	Grassland – Other neutral grassland	0.6159	Medium	4	Moderate	2	High strategic significance	1.15	7.91	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Moderate - Good	0.6159	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	14.16	Enhanced grassland within field F5a		
7	Grassland – Other neutral grassland	0.1307	Medium	4	Fairly Poor	1.5	High strategic significance	1.15	16.55	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Fairly Poor - Good	4.4468	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	16.16	Enhanced grassland within field F5b		
8	Grassland – Other neutral grassland	2.5252	Medium	4	Fairly Poor	1.5	High strategic significance	1.15	17.31	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Fairly Poor - Good	0.0026	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	12	0	0	Standard time to target condition applied	12	0.955	Low	Standard difficulty applied	Low	1	8.46	Enhanced grassland within field F6		
10	Grassland – Other neutral grassland	3.1148	Medium	4	Poor	1	High strategic significance	1.15	14.10	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Poor - Good	2.9203	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	40.22	Enhanced grassland within field F7		
11	Grassland – Other neutral grassland	4.0528	Medium	4	Moderate	2	High strategic significance	1.15	32.47	Same broad habitat or a higher distinctiveness habitat created	Grassland	Other neutral grassland	Medium - Medium	Moderate - Good	2.9862	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.965	Low	Standard difficulty applied	Low	1	32.15	Enhanced grassland within field F8		
																																		181.47			

Total habitat area   16.86

Project Name: Land north of Wilderness Lane, Great Barr, Birmingham   Map Reference

B-1 On-Site Hedge Baseline

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Hedgerow summary

Total Net Unit Change	5.18
Total Net % Change	10.81%
Trading Rules Satisfied	Yes ✓

Baseline ref	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Required Action to Meet Trading Rules	Total hedgerow units	Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Consenting body comments	GIS reference number
1	H1	Native hedgerow	0.184	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.27	0.172	0	1.19	0.00	0.01	0.08			
2	H2	Native hedgerow	0.12	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.83	0.12	0	0.83	0.00	0.00	0.00			
3	H3	Native hedgerow - associated with bank or ditch	0.096	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.88	0	0.085	0.00	0.78	0.01	0.10			
4	H4	Native hedgerow with trees	0.062	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.86	0.062	0	0.86	0.00	0.00	0.00			
5	H5	Native hedgerow - associated with bank or ditch	0.12	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.66	0.12	0	1.66	0.00	0.00	0.00			
6	H6	Native hedgerow	0.123	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.85	0.123	0	0.85	0.00	0.00	0.00			
7	H7	Species-rich native hedgerow with trees - associated with bank or ditch	0.129	V.High	8	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like	3.56	0.129	0	3.56	0.00	0.00	0.00			
8	H8	Native hedgerow	0.051	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.35	0.051	0	0.35	0.00	0.00	0.00			
9	H9	Native hedgerow - associated with bank or ditch	0.056	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.77	0.056	0	0.77	0.00	0.00	0.00			
10	H10	Native hedgerow with trees - associated with bank or ditch	0.165	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	3.42	0.165	0	3.42	0.00	0.00	0.00			
11	H11	Native hedgerow with trees	0.119	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	2.46	0.119	0	2.46	0.00	0.00	0.00			
12	H12	Species-rich native hedgerow with trees - associated with bank or ditch	0.147	V.High	8	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Like for like	2.70	0	0.147	0.00	2.70	0.00	0.00			
13	H13	Native hedgerow with trees - associated with bank or ditch	0.149	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	3.08	0.149	0	3.08	0.00	0.00	0.00			
14	H14	Native hedgerow - associated with bank or ditch	0.081	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.12	0.081	0	1.12	0.00	0.00	0.00			
15	H15	Native hedgerow with trees	0.178	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.64	0	0.178	0.00	1.64	0.00	0.00			
16	H16	Native hedgerow with trees - associated with bank or ditch	0.214	High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	Like for like or better	4.43	0.214	0	4.43	0.00	0.00	0.00			
17	H17	Native hedgerow	0.165	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.14	0.165	0	1.14	0.00	0.00	0.00			
18	H18	Native hedgerow	0.052	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.36	0.052	0	0.36	0.00	0.00	0.00			
19	H19	Native hedgerow	0.043	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.30	0.043	0	0.30	0.00	0.00	0.00			
20	H20	Native hedgerow	0.06	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.28	0	0.06	0.00	0.28	0.00	0.00			
21	H21	Native hedgerow	0.138	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.95	0.129	0	0.89	0.00	0.01	0.06			
22	H22	Native hedgerow	0.069	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.48	0.049	0	0.34	0.00	0.02	0.14			
23	H23	Native hedgerow with trees	0.087	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.80	0	0.079	0.00	0.73	0.01	0.07			
24	H24	Native hedgerow with trees	0.053	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.73	0.05	0	0.69	0.00	0.00	0.04			
25	H25	Native hedgerow with trees	0.071	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.98	0.071	0	0.98	0.00	0.00	0.00			
26	H26	Native hedgerow with trees	0.122	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.68	0.122	0	1.68	0.00	0.00	0.00			
27	H27	Native hedgerow with trees	0.097	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.34	0.097	0	1.34	0.00	0.00	0.00			
28	H28	Native hedgerow	0.025	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.12	0	0.025	0.00	0.12	0.00	0.00			
29	H29	Native hedgerow	0.099	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.68	0.088	0	0.61	0.00	0.01	0.08			
30	H30	Native hedgerow	0.036	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.25	0	0	0.00	0.00	0.04	0.25			
31	H31	Native hedgerow with trees	0.083	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.15	0.067	0	0.92	0.00	0.02	0.22			
32	H32	Native hedgerow	0.196	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.35	0.196	0	1.35	0.00	0.00	0.00			
33	H33	Non-native and ornamental hedgerow	0.046	V.Low	1	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.05	0.046	0	0.05	0.00	0.00	0.00			
34	TL1	Line of trees - associated with bank or ditch	0.42	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	1.93	0.405	0	1.86	0.00	0.02	0.07			
35	TL2	Line of trees	0.074	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.34	0.074	0	0.34	0.00	0.00	0.00			
36	TL3	Line of trees	0.16	Low	2	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.37	0.16	0	0.37	0.00	0.00	0.00			
37	TL4	Line of trees	0.097	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	0.45	0.07	0	0.32	0.00	0.03	0.12			
38	TL5	Line of trees	0.339	Low	2	Good	3	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness band or better	2.34	0.339	0	2.34	0.00	0.00	0.00			
39																					
40																					
41																					
42																					
43																					
			4.83									47.93	3.78	0.87	40.46	6.24	0.17	1.24			

B-2 On-Site Hedge Creation

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

Hedgerow summary

Total Net Unit Change	6.18
Total Net % Change	10.81%
Trading Rules Satisfied	Yes ✓

Baseline ref	New hedge number	Proposed habitats			Distinctiveness		Condition		Strategic significance			Temporal multiplier							Difficulty risk multipliers				Hedge units delivered	Comments		GIS reference number
		Habitat type	Length (km)		Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied		User comments	Consenting body comments	
1		Species-rich native hedgerow with trees	0.09		High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	20	0	0	Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	0.91			
2		Species-rich native hedgerow with trees	0.1		High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	20	0	0	Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	1.02			
3		Species-rich native hedgerow with trees	0.122		High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	20	0	0	Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	1.24			
4		Species-rich native hedgerow with trees	0.05		High	6	Good	3	Formally identified in local strategy	High strategic significance	1.15	20	0	0	Standard time to target condition applied	20	0.490	Low	Standard difficulty applied	Low	1	0.51			
5																									
6																									
7																									
8																									
9																									
			0.36																			3.67			

B-3 On-Site Hedge Enhancement

Condense / Show Columns   Condense / Show Rows

Main Menu   Instructions

Hedgerow summary	
Total Net Unit Change	5.18
Total Net % Change	10.81%
Trading Rules Satisfied	Yes ✓

| Baseline ref | Baseline habitat | Proposed (Pre-populated but can be overridden) | Distinctiveness movement | Condition movement | Length (km) | Distinctiveness | Condition | Strategic significance | Standard or adjusted time to target condition | Final time to target condition (years) | Final difficulty of enhancement | Hedge units delivered | User comments | Consenting body comments | GIS reference number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | Native hedgerow - associated with bank or ditch | Native hedgerow - associated with bank or ditch | Medium - Medium | Moderate - Good | 0.085 | Medium | Good | Formally identified in local strategy | Standard time to target condition applied | 2 | Low | 1.15 | | | H3 |
| 12 | Species-rich native hedgerow with trees - associated with bank or ditch | Species-rich native hedgerow with trees - associated with bank or ditch | V.High - V.High | Moderate - Good | 0.147 | V.High | Good | Formally identified in local strategy | Standard time to target condition applied | 4 | Low | 3.88 | | | H12 |
| 15 | Native hedgerow with trees | Native hedgerow with trees | Medium - Medium | Moderate - Good | 0.178 | Medium | Good | Formally identified in local strategy | Standard time to target condition applied | 4 | Low | 2.35 | | | H15 |
| 20 | Native hedgerow | Native hedgerow | Low - Low | Moderate - Good | 0.06 | Low | Good | Formally identified in local strategy | Standard time to target condition applied | 2 | Low | 0.40 | | | H20 |
| 23 | Native hedgerow with trees | Native hedgerow with trees | Medium - Medium | Moderate - Good | 0.079 | Medium | Good | Formally identified in local strategy | Standard time to target condition applied | 4 | Low | 1.04 | | | H23 |
| 28 | Native hedgerow | Native hedgerow | Low - Low | Moderate - Good | 0.025 | Low | Good | Formally identified in local strategy | Standard time to target condition applied | 2 | Low | 0.17 | | | H28 |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| | | | | | 0.57 | | | | | | | 8.99 | | | |

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Key

Red Line Boundary

Baseline Habitats

Bracken

Bramble scrub

Developed land; sealed surface

Mixed scrub

Other neutral grassland

Ponds (non-priority habitat)

Tall forbs

Baseline Hedgerows

Non-native and ornamental hedgerow - H33

Line of trees - TL2, TL3, TL4, TL5

Line of trees - associated with bank or ditch - TL1

Native hedgerow - H1, H2, H6, H8, H17, H18, H19, H20, H21, H22, H28, H29, H30, H32

Native hedgerow - associated with bank or ditch - H3, H5, H9, H14

Native hedgerow with trees - H4, H15, H23, H24, H25, H26 H27, H31

Native hedgerow with trees - associated with bank or ditch - H10, H11, H13, H16

Species-rich native hedgerow with trees - associated with bank or ditch - H7, H12

Baseline Trees

Existing Medium Rural Tree
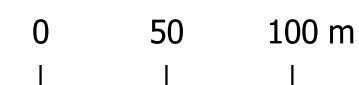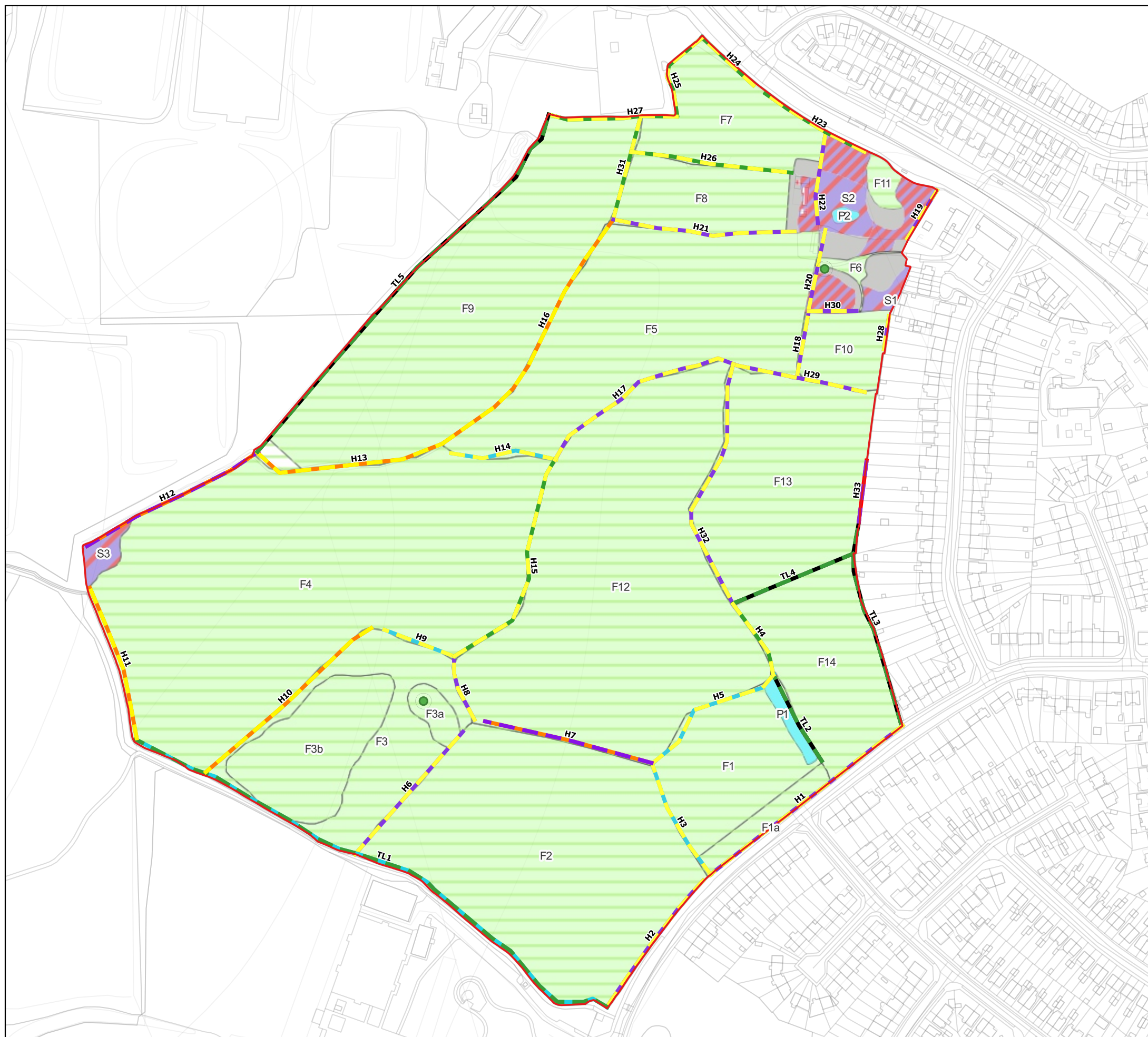
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Wain Estates
project
Land North of Wilderness Lane, Great Barr, Birmingham
drawing title
BASELINE HABITAT PLAN

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HEH
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10/6/2024

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