



OAKLANDS FARM SOLAR PARK

Applicant: Oaklands Farm Solar Ltd

Environmental Statement

Appendix 6.12 – Biodiversity Net Gain Report

January 2024

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Oaklands Farm Solar Park - Environmental Statement Volume 3

Appendix 6.12: Biodiversity Net Gain Report

Final report
Prepared by LUC
January 2024



Oaklands Farm Solar Limited

Oaklands Farm Solar Park

Technical Appendix 6.12: Biodiversity Net Gain Assessment

Project Number 11477

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Chapter 1 Introduction

Terms of Reference

- **1.1** In April 2021, LUC was appointed by Oaklands Solar Farm Limited to provide ecological support to inform an application to construct and operate Oaklands Farm Solar Park, a proposed solar photovoltaic (PV) electricity generating facility, hereafter referred to as 'the Proposed Development'.
- **1.2** This report forms a Technical Appendix, which has informed an Ecological Impact Assessment (EcIA) and will form part of the Environmental Statement (ES), in support of an application for a Development Consent Order (DCO) for the Proposed Development. Assessment of impacts, mitigation requirements and enhancement measures will be provided as part of the ES Chapter and are not detailed within this report.

This report relates to the Park Farm, Fairfield Farm, Oaklands Farm, and Drakelow Power Station, hereafter referred to as 'the Site' (see Figure 1.3 Areas of the Site).

1.3 This report has been prepared for the exclusivity of Oaklands Farm Solar Limited. No part of this report should be considered as legal advice.

Site Description

- **1.4** The Site boundary is located to the east of Walton-on-Trent in South Derbyshire (OS Central Grid Reference: SK 23456 17577). The Site boundary comprises land within Oaklands Farm, Park Farm and Fairfield Farm land-holdings, which are currently used for arable cropping and grazing, and Drakelow National Grid Substation in the north.
- **1.5** The wider area comprised a mosaic of agricultural and pastoral land and woodland with Rosliston Forestry Centre located to the east and the River Trent and to the west of the Site boundary.

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1.6 The majority of the Site, which is located within the Oaklands Farm, Park Farm and Fairfield Farm landholdings, is comprised of species-poor and agriculturally improved pasture to maximise the productivity of cattle and sheep grazing. Grazing pressures, including trampling, erosion and physical damage by livestock has severely degraded many of the internal site hedgerows, which are typically defunct and characterised by a species-poor assemblage and open, straggly growth form. A small section of the Site in the north is located within Drakelow Power Station. This area of land is comprised of woodland, grassland, scrub and ruderal mosaic, bare ground and a pond. Areas of increased ecological value within the Site relate primarily to woodlands and an unnamed watercourse.

Project Description

1.7 The Proposed Development comprises a proposed solar farm with an associated Battery Energy Storage System. It would have a generating capacity of over 50MW and would be situated on 191 hectares of land at Oaklands Farm to the south-east of Walton-on-Trent and to the west of Rosliston in south Derbyshire. The solar farm itself, comprising photovoltaic panel arrays, a central electricity substation and Battery Energy Storage System together with access, landscaping and other works would be located on 135 hectares of agricultural land currently in use for arable production and grazing. A high voltage underground electricity cable would then run through land at Fairfield Farm and Park Farm to the north to connect the solar farm to the national grid via an electricity substation located at the former Drakelow Power Station which sits south of Burton-upon-Trent.

Purpose of Assessment

1.8 Overarching National Policy Statement (NPS) for Energy Infrastructure (EN-1)¹ states that energy nationally significant infrastructure projects (NSIPs) should 'seek opportunities to contribute to and enhance the natural environment by providing net gains for biodiversity where possible'.

¹ Department for Energy Security and Net Zero (2023) Draft Overarching National Policy Statement for Energy (EN-1). Available at: https://assets.publishing.service.gov.uk/media/655dc190d03a8d001207fe33/overarching-nps-for-energy-en1.pdf [Accessed 16/01/24]

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- 1.9 In accordance with the National Planning Policy Framework (NPPF) proposals should seek to demonstrate Biodiversity Net Gain (BNG). The NPPF² paragraph 185(b) states plans should 'promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity'.
- **1.10** There is currently no specific requirement for BNG within the current South Derbyshire Local Plan, with Policy BNE3 supporting development that "delivers net gains in biodiversity"³.
- **1.11** This assessment has examined baseline ecological information and current landscape proposals to identify the current BNG provision, any risk in achieving BNG and identify further actions required to secure BNG through the proposals.
- **1.12** Whilst the process of BNG does consider the Site's value to locally relevant protected species and nearby Designated Sites, potential impacts and planning requirements for these ecological receptors have been considered separately within **Chapter 6 Ecology** in the Environmental Statement and associated technical appendices.
- 1.13 BNG data should be considered part of the iterative process of calculation and design alteration. This report provides an BNG feasibility assessment for design as of November 2023, shown in Figures 5.6.1a-f within ES Volume 3 Appendix 5.6: Outline Landscape Ecological Management Plan, therefore should not be considered valid for any subsequent design revisions.

² Ministry of Housing, Communities and Local Government (2023). *National Planning Policy Framework*. Available at: https://assets.publishing.service.gov.uk/media/65a11af7e8f5ec000f1f8c46/NPPF_December_2023.pdf (Accessed 16/01/24).

³ South Derbyshire District Council (2016). South Derbyshire Local Plan Part 1. Available at: https://www.southderbyshire.gov.uk/our-services/planning-and-building-control/planning/planning-policy/local-plan/adopted-local-pla (Accessed 03 May 2022).

Defra Biodiversity Metric 3.1

- **2.1** Calculations have been carried out in cognisance of Biodiversity Net Gain: Good Practice Principles for Development guidance⁴. Full calculations were undertaken through the Defra Biodiversity Metric 3.1^{5,6} and associated condition sheets. Crucially, the process of BNG has been adopted to inform design, resulting in iterative calculation and design alteration to maximise the ecological potential of the Site.
- **2.2** The Metric 3.1 has been used for the assessment rather than the most recent Metric 4.0^{7,8} or Statutory Metric⁹ due to surveys and BNG condition assessments being conducted using the Metric 3.1, and being completed prior to the release of the Metric 4.0 and the Statutory Metric. This is in accordance with advice from Natural England at the time of the assessments, for the continuation of use of previous metrics for a project duration, prior to the adoption of mandatory

⁴ Baker J., Hoskins R. and Butterworth T. (2019). *Biodiversity Net Gain. Good practice principles for development: A practical guide*. Ciria, London.

⁵ Panks S., White N., Newsome A., Nash M., Potter J., Heydon M., Mayhew E., Alvarez M., Russell T., Cashon C., Goddard F., Scott S.J., Heaver M., Scott S.H., Treweek J., Butcher B. and Stone D. (2022). *The Biodiversity Metric* 3.1: Auditing and accounting for biodiversity value - User Guide (21st April 2022). Natural England, York.

⁶ Panks S., White N., Newsome A., Nash M., Potter J., Heydon M., Mayhew E., Alvarez M., Russell T., Cashon C., Goddard F., Scott S.J., Heaver M., Scott S.H., Treweek J., Butcher B. and Stone D. (2022). *The Biodiversity Metric* 3.1: Auditing and accounting for biodiversity value – Technical Supplement (21st April 2022). Natural England, York.

7 Natural England (March 2023). The Biodiversity Metric 4.0: User Guide. Available at:

⁷ Natural England (March 2023) *The Biodiversity Metric 4.0: User Guide.* Available at: http://publications.naturalengland.org.uk/publication/6049804846366720.

⁸ Natural England (March 2023) *The Biodiversity Metric 4.0: User Guide – Technical Annex 2.* Available at: http://publications.naturalengland.org.uk/publication/6049804846366720.

⁹ Natural England (November 2023) *The Statutory Biodiversity Metric: User Guide (draft)*. Available at https://assets.publishing.service.gov.uk/media/65673fee750074000d1dee31/The_Statutory_Biodiversity_Metric____Draft_User_Guide.pdf

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BNG^{10,11}. The User Guide⁹ relating to use of the Statutory Metric is in draft form at the time of writing, and further guidance is still to be released to inform the conversion of assessments carried out under previous versions of the Metric to the Statutory Metric¹².

- 2.3 For Nationally Significant Infrastructure Projects (NSIPs) like the Proposed Development, mandatory BNG is proposed from November 2025. The Statutory Metric is "statutory" in the context of being made pursuant to provisions of the Town and Country Planning Act 1990 which relate to planning applications. Provisions in Schedule 2A of the Planning Act 2008 regarding the metric to be used for BNG calculations in relation to NSIPs are not yet in force. Government guidance is clear that use of the Statutory Metric will only be required for NSIPs from November 2025¹². As such there is no legal requirement to use the Statutory Metric prior to this for NSIP projects.
- **2.4** Given the above, the Applicant's use of Metric 3.1 is therefore considered to be an appropriate and proportionate approach to the assessment of BNG in relation to the Proposed Development.
- **2.5** The metric approach is the established method for calculating BNG and provides a quantitative approach to losses and gains resulting from development or land management changes. The metric approach compares the pre-development baseline against the project proposals, accounting for any habitat loses, gains, impacts and enhancements.

https://www.local.gov.uk/pas/topics/environment/biodiversity-net-gain-local-authorities/biodiversity-net-gain-faqs#biodiversity-metric [accessed 8 January 2024]. This page was updated 22 January 2024 with the guidance superseded for the onset of mandatory BNG, and as such is no longer available.

https://www.gov.uk/guidance/biodiversity-metric-calculate-the-biodiversity-net-gain-of-a-project-or-development [accessed 8 January 2024].

¹⁰ Planning Advisory Service (16 October 2023) *Biodiversity Net Gain FAQs – Frequently Asked Questions,* in response to "Should the use of the metric be explicitly required in Local Plan policy?" Available at:

¹¹ The principle of maintaining the use of one metric through project duration for consistency was also referred to within Section 10 of the Biodiversity Metric 3.1 User Guide as below:
Panks S., White N., Newsome A., Nash M., Potter J., Heydon M., Mayhew E., Alvarez M., Russell T., Cashon C., Goddard F., Scott S.J., Heaver M., Scott S.H., Treweek J., Butcher B. and Stone D. (2022). *The Biodiversity Metric 3.1: Auditing and accounting for biodiversity value - User Guide* (21st April 2022). Natural England, York.

¹² GOV.UK (15 December 2023) *Calculate biodiversity value using the biodiversity metric.* Available at:

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- **2.6** BNG is being delivered within the red line boundary, as shown in the Phase 1 Plans (**Appendix A**) and the landscape proposals (**Appendix B**). It is important to note that due to the size of the Site, proposals have been split into numerous figures for the landscape strategy, and as such both cannot be included within the Defra 3.1 Metric 'Start' tab for 'On-site post intervention map'. The entire Site and red line boundary has however, been shown within the 'On-site baseline map', and the entirety of the Site accounted for within the BNG metric and unit delivery.
- 2.7 In addition, a River Condition Assessment has been carried out, (ES Volume 3 Appendix6.13: River Condition Assessment), and should be read in conjunction with this BNG report.
- **2.8** Whilst the Defra Biodiversity Metric 3.1 is the default approach to calculating BNG, it should not be considered a complete tool in assessing BNG and therefore professional judgement has been used where appropriate. Where professional judgement has been used, this is outlined in the text and additional references, where required, are provided.
- **2.9** The BNG assessment has been carried out by Holly Gillon MSci (Hons), a Qualifying Member of CIEEM, and Quality control and approval was provided by Rebecca Turner BSc (Hons) MSc ACIEEM, an Associate Ecologist, David Green BSc (Hons) MCIEEM, an Associate Director, and Ella Moseley BSc (Hons) FCIWEM, C.WEM, CEnv, FRGS, CGEOG, FLS, an Associate Director.

Baseline Habitat Assessment

- **2.10** The Site was subject to Extended Phase 1 Habitat Surveys which included detailed mapping of habitats within the Site as follows:
- Oaklands Farm undertaken on 6th, 7th, 11th May and 16th June 2020 by Arcus¹³.
- Park Farm undertaken on 21st April 2021 by Rebecca Turner BSc (Hons) MSc ACIEEM and Tom Hicks BSc ACIEEM. Weather conditions during the survey were dry, cloudy and mild.

¹³ ES Volume 3, Appendix 6.3: Arcus, (2020), Preliminary Ecological Appraisal: Oaklands Solar Farm and Grid Connection Route

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- **Grid Cable Route** undertaken on 26th April 2022 by Tom Hicks and Rosalind Warwick-Haller BSc (Hons), MSc, a Qualifying Member of CIEEM. Weather conditions during the survey were dry, cloudy and mild. This included areas within Fairfield Farm landholdings.
- **2.11** The following updated verification walkover survey was completed in 2023, including condition checks of previous mapping, an updated River Condition Assessment, and mapping of additional areas included due to design alterations:
 - Oaklands Farm, Park Farm and Land between Park Farm and Oaklands (also known as Fairfield Farm) undertaken on 30th March 2023 by Associate Ecologist Rebecca Turner ACIEEM, and supported by Rosalind Warwick-Haller and Holly Gillon, both Qualifying Members of CIEEM. Weather conditions during the survey were cloudy and mild with intermittent showers.

Updated Baseline Mapping

2.12 Due to the time passed between the Arcus assessments and Phase 1 mapping (**ES Volume 3, Appendix 6.3: Preliminary Ecological Appraisal,** Arcus 2020), and the LUC assessments (**ES Volume 3, Appendix 6.5: Phase 1 Habitat Survey Report**, LUC 2023), an updated Phase 1 Habitats Plan was produced, and used as the baseline for BNG. This updated figure is presented in **Appendix A** and comprises updates to the Arcus mapping of Oaklands Farm, as well as the 2021, 2022 and 2023 LUC mapping of Park Farm and Drakelow Powerstation.

Terrestrial Habitats

- **2.13** To calculate the ecological baseline unit for the Site the following data and assessments were collated:
 - Phase 1 Habitat classifications were converted to UK Habitat Classification Habitat types through the DEFRA Metric 3.1 conversion tool and assigned a pre-set distinctiveness value, indicative of the inherent 'value' of these habitats.
- The area (hectares) of each habitat and length of linear habitats (km) within the application boundary was calculated from Phase 1 Habitat mapping using ESRI ArcMap. The Extended

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Phase 1 Habitat Maps, including BNG parcels for habitat and linear features are presented in **Appendix A.**

- Habitats were subject to a dedicated 'condition assessment¹⁴ on 26th and 27th April 2022. Surveys were led by Tom Hicks with support from suitably experienced ecologists. Weather conditions during the survey were dry, cloudy and mild. The 'condition' of the habitat is considered a measure of habitat quality and measures the 'working-order' against the optimal potential of habitat type. Assessment criteria cover broad habitat types therefore further clarification is provided and professional judgement used to assign condition where appropriate.
- Each habitat was subject to a Strategic Significance assessment based on its position within the landscape, this includes consideration of local plans, Supplementary Planning Documents and Guidance and local partnership publications to identify local priorities for targeting biodiversity.
- Baseline inputs (as detailed above) were entered into the DEFRA 3.1 Metric to calculate baseline 'biodiversity units' for the Site.

Strategic Significance

- **2.14** The Site is located within The National Forest¹⁵ which seeks contributions from developers (planting and/or financial) to achieve its objectives of landscape scale forestry restoration after an extensive history of deforestation in the are due to coal mining. This includes identifying areas for woodland creation and tree planting to provide greater ecological connectivity within the landscape and increase the functionality of existing woodland.
- **2.15** The National Forest Company leads the creation of The National Forest. Established in April 1995, it is a charity and Non-Profit Institution within the Public Sector, sponsored by the Department for Environment, Food and Rural Affairs (Defra).

¹⁴ Natural England (2021). Biodiversity metric 3.1: Auditing and accounting for biodiversity – Technical Supplement. Natural England, York.

¹⁵ The National Forest boundary is available at: https://maps.south-derbyshire.gov.uk/ (Accessed 05 May 2022).

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- **2.16** Due to this and local policy, the strategic significance of all woodland habitats and Urban Trees on Site were set to 'High, Within areas formally identified in local strategy'. The remaining habitats were set to 'Medium, Location ecologically desirable but not in local strategy', with the exception of Developed land; sealed surface which was set at Low.
- **2.17** The streams are tributaries of the River Trent and within the Trent Valley, this area comes under the Local Plan Policy INF7 B, and thus must contribute to delivering landscape scale change through habitat enhancements. Due to this, the strategic significance of the linear habitats on Site was set to High, within area formally identified in local strategy'.

Proposed Development

- **2.18** The same process was repeated for the Proposed Development, as detailed below:
 - The loss of baseline habitats (both polygon and linear data) was calculated by overlaying the footprint of the Proposed Development onto the Phase 1 Habitat mapping using ESRI ArcMap. Using this method, the area of loss to each habitat block was determined.
- The Proposed Development was reviewed to identify habitats created, retained and enhanced. Proposed habitats were subject to condition, and strategic significance assessments.
- Where a new habitat or existing habitat has been created or enhanced, additional consideration has been given towards the time taken for habitats to establish and reach target condition (temporal multiplier) and the difficulty of habitat re-creation (difficulty multiplier). Both temporal and difficulty multipliers were pre-assigned within the metric.
- For areas where cable-laying is proposed, primarily poor semi-improved grassland and arable habitats, this has been considered as a 'temporary loss' and as such treated as retained within this metric. This is in accordance with the user guidance of the 3.1 metric¹⁴, due to the restoration of the habitat to its original state and no further development proposed after the cable has been laid.
- **2.19** Collated data and assessments were entered into the Defra Biodiversity Metric 3.1 to calculate a biodiversity unit score for the proposal.

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Data Summary and Discussion

- **2.20** The DEFRA 3.1 Metric presents a detailed summary of the resultant biodiversity unit change, separated by habitat type.
- **2.21** For terrestrial habitats, a single biodiversity unit change has been provided (i.e., the overall total). However, caution has been applied when interpreting this number. It is important to note that the process of BNG should consider habitat types in isolation, and any unit losses or grains should be considered in detail on a like-for-like basis for each habitat group / priority habitat type.
- 2.22 The discussion also considers the wider context of the planning application, surrounding landscape and socio-economic values of the Proposed Development as well as considering how the development contributes towards nature conservation priorities at the local, regional and national levels. This approach is guided by Principles 6 and 9 of Biodiversity Net Gain Good Practice Principles⁴.

Limitations

- 2.23 The assessment has been completed based upon the Landscape Strategy Plans (Figures 5.1a-f in ES Volume 3, Appendix 5.6: Outline Landscape Ecological Management Plan), included within Appendix B of this report. It is important to note that due to the size of the Site, proposals have been split into numerous figures for the landscape strategy, and as such both cannot be included within the Defra 3.1 Metric 'Start' tab for 'On-site post intervention map'. The entire Site and red line boundary has however, been shown within the 'On-site baseline map', and the entirety of the Site accounted for within the BNG metric and delivery.
- 2.24 The exact density of scattered trees planting proposed within the Landscape Strategy, is yet to be determined. Detailed landscape plans including planting densities, will be provided post consent. As such, for the purpose of this assessment, it was assumed a minimum number of trees would be planted as shown on the Landscape Strategy Plan. As the scattered trees are accounted for as urban trees, which is in addition to the habitats present below, any minor variation in the finalised delivery of number of trees is not expected to notably alter the BNG result for habitat units.

Chapter 3

Biodiversity Net Gain Calculations

Baseline Assessment Inputs

All Habitats

3.1 The Site lies within The National Forest¹⁵. Therefore, Strategic Significance was fixed at High (formally identified in local strategy) for all woodland habitats and Urban Trees. The remaining habits were set at Medium (Location ecologically desirable but not in local strategy), with the exception of Developed land; sealed surface which was set at Low.

Area Habitats

- **3.2 Table 3.1** provides a summary of the baseline assessment inputs for area habitats. Full condition assessment proformas are provided within **Appendix D.**
- **3.3** Polygon references are shown within **Figure 6.12.1 BNG Reference Points, Appendix C** of this report, with field reference numbers shown separately within **Figures 1.4a and 1.4b: Field Numbers**, within **ES Volume 2**.

Table 3.1: Summary of Baseline Assessment Inputs for Area Habitats

Polygon / Field reference	Area (Ha)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
GL1, GL2, GL3, GL4, GL5, GL6, GL7, GL8, GL12, GL14, GL16,	82.41	B4 Improved grassland	Modified grassland	Poor	D.1

Polygon / Field reference	Area (Ha)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
GL20, GL23, GL22, GL24, GL25, GL26, GL27, O1, O3, O22, O23					
GL17, GL18, GL31, GL21, GL29, GL32	3.80	J2.2 Neutral semi- improved grassland	Other neutral grassland	Poor	D.2
GMH6	0.04	C3.1 Other tall herb and fern (ruderal) A3.2 Coniferous scattered trees	Other neutral grassland	Poor	D.3
GL19, GL28	5.17	B6 Poor semi- improved grassland	Modified grassland	Poor	D.4
GL34	0.10	B6 Poor semi- improved grassland	Modified grassland	Poor	D.5

Polygon / Field reference	Area (Ha)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
GMH5	0.03	B5 Marshy grassland	Other neutral grassland	Moderate	D.6
GMH4 ¹⁶	0.38	C3.1 Other tall herb and fern (ruderal)	Other neutral grassland	Poor	D.7
S5 S13, S10	0.56	A2.1 Dense scrub	Mixed scrub	Moderate	D.8
S16	0.54	A2.1 Dense scrub	Bramble scrub	N/A	D.9
S8	0.11	A2.1 Dense scrub	Mixed scrub	Good	D.10
S9, S15	0.08	A2.1 Dense scrub	Mixed scrub	Poor	D.11
S11	0.07	A2.2 Scrub (scattered)	Mixed scrub	Poor	D.12
W7	0.17	A1.1 Semi-natural broadleaved woodland	Other woodland; broadleaved	Poor	D.13
W3, W4 W5, W6, W8	2.00	A1.1 Semi-natural broadleaved woodland	Other woodland; broadleaved	Moderate	D.14
P3 (Pond) P6 (Pond)	0.08	G1 Standing water	Ponds (non-priority habitat)	Moderate	D.15

¹⁶ Classification updated by LUC from most recent 2022 survey

Polygon / Field reference	Area (Ha)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
P4 (Pond) P5 (Pond)	0.03	G1 Standing water	Ponds (non-priority habitat)	Poor	D.16
U2, U4	0.51	J4 Bare ground	Vacant / derelict land / bare ground	Poor	D.17
U3	0.50	J4 Bare ground	Vacant / derelict land / bare ground	Moderate	D.18
F3, O4, O6, O7, O8, O11, O13, O14, O15, O16, O17	91.14	Arable	Cropland – Non- cereal crops	N/A	D.19
N/A ¹⁷	4.59	Hard standing Buildings	Developed land, sealed surface	N/A	D.20
Arcus: T1, T2, T3, T9, T29	0.38	Broadleaved scattered trees	Urban tree	Moderate	D.21
Arcus: T24, T26, T30	0.18	Broadleaved scattered trees	Urban tree	Moderate	D.22

¹⁷ No reference available due to no condition assessment needed. Polygons can be found on the Phase 1 Habitat Plan in Appendix B.

Polygon /	Area	JNCC Phase 1	UKHAB Classification	Condition	Proforma
Field	(Ha)	Classification			Table
reference					
LUC: T39,					
T58					
G44	0.22	Coniferous scattered trees	Urban tree	Moderate	D.23

Hedgerow Habitats

3.4 Table 3.2 provides a summary of the baseline assessment inputs for linear habitats. Full condition assessment proformas are provided within **Appendix D.**

Table 3.2: Summary of Baseline Assessment Inputs for Hedgerow Habitats

Line / Reference	Length (km)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
G5, G7, G8, G1, G2, G3, G4	0.53	Tree Line	Line of Trees	Moderate	D.24
H28, H48	0.16	J2.1.2 Intact hedge (species-poor)	Native Hedgerow	Good	D.25
H25, G66	0.104	J2.1.2 Intact hedge (species-poor) G1 Standing water	Native Hedgerow (ditch accounted for in river units)	Good	D.26
H1, H2	0.42	J2.1.2 Intact hedge (species-poor)	Native Hedgerow	Poor	D.27

Line / Reference	Length (km)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
H3, H42 west	0.22	J2.1.2 Intact hedge (species-poor)	Native Hedgerow	Moderate	D.28
H66, H84, H72	0.42	J2.2.2 Defunct hedge (species-poor)	Native Hedgerow	Good	D.29
No ref ¹⁸ , H62a, H61, H59, H68, H69, H71, H70, H74, H47, H41 north, H53, H57	2.63	J2.1.1 Intact hedge (species-rich)	Native Species Rich Hedgerow	Good	D.30
H45, H46, H47, H51, H50 north	0.74	J2.1.1 Intact hedge (species-rich)	Native Species Rich Hedgerow	Moderate	D.31
H87, H43 south, H56	0.76	J2.2.1 Defunct hedge (species-rich)	Native Species Rich Hedgerow	Moderate	D.32
H73	0.32	J2.3.1 Hedge with trees (native speciesrich)	Native Species Rich Hedgerow with trees	Poor	D.33

¹⁸ This was identified as hedge with trees on Arcus Phase 1 map, but an updated condition assessment was undertaken for intact species-rich hedgerow. No reference was available on the TRR Plan due to distance from proposed impacts so is referred to as 'No ref' within this assessment and figures.

Line / Reference	Length (km)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
H62, H63, H60, H59, H82, H81, H88 south, H89 south, H32, H29, H30, H31, H36, G36	2.74	J2.3.1 Hedge with trees (native species-rich)	Native Species Rich Hedgerow with trees	Good	D.34
H86 ¹⁹ ,H75, H76, H44 east, H34, H33	1.18	J2.3.1 Hedge with trees (native species-rich)	Native Species Rich Hedgerow with trees	Moderate	D.35
H44 west	0.38	J2.2.1 Defunct hedge (species-rich)	Native Species Rich Hedgerow	Good	D.36
H47	0.23	J2.1.1 Intact hedge (species-rich) G1 Standing water	Native Species Rich Hedgerow – Associated with bank or ditch	Moderate	D.37
H77, H38, H78 ²⁰ , H42	0.40	J2.3.1 Hedge with trees (native speciesrich)	Native Species Rich Hedgerow with trees –	Good	D.38

¹⁹ H86 was identified as intact species rich hedgerow on Arcus Phase 1 map but an updated condition assessment was undertaken for species rich hedge with trees.

²⁰ Not mapped by Arcus so no JNCC Ph1 Classification available. Feature noted and assessed by LUC during condition assessments.

Line / Reference	Length (km)	JNCC Phase 1 Classification	UKHAB Classification	Condition	Proforma Table
east ²⁰ , G49 ²⁰		G1 Standing water	Associated with bank or ditch		
H79, H36a	0.68	Not assessed by Arcus ²⁰	Native Hedgerow with trees	Moderate	D.49
H89, G65, G54, G55, H64, H65, H80, H37, H33	1.59	J2.3.1 Hedge with trees (native species-rich)	Native Species Rich Hedgerow with trees	Good	D.40
H49, H41 south, H50 south, G48	0.51	Not assessed by Arcus	Line of Trees	Moderate	D.41
H43 west, G46	0.57	Not assessed by Arcus	Native Hedgerow with trees	Poor	D.42

River Habitats

3.5 Table 3.3 provides a summary of the baseline assessment inputs for river habitats. Full condition assessment proformas are provided within **Appendix D.**

Table 3.3: Summary of Baseline Assessment Inputs for River Habitats

Line / Reference	Length (km)	JNCC Phase 1 Classification	UKHABS Classification	Condition	Proforma Table
D6	0.07	G1 Standing water	Ditches	Poor	D.43

Line / Reference	Length (km)	JNCC Phase 1 Classification	UKHABS Classification	Condition	Proforma Table
D7	0.48	G1 Standing water	Ditches	Poor	D.44
D12	0.15	G1 Standing water	Ditches	Poor	D.45
D17	0.13	G2 Standing water	Ditches	Poor	D.46
Sub-reach A, B, E	0.80	G2 Running water	Other rivers and streams	Moderate	D.47
Sub-reach Y – Z	0.48	G2 Running water	Other rivers and streams	Moderate	D.47
Sub-reach D	0.04	G2 Running water	Other rivers and streams	Fairly Good	D.47

Proposal Assessment Inputs

3.6 Full calculations taken directly from the Defra 3.1 metric are provided in **Appendix F**. Results are outlined and discussed in detail below.

Retained Area Habitats

3.7 The area habitats retained within the Site are summarised in Table 3.4.

Table 3.4: Retained Area Habitats

Habitat Type	Baseline Area (ha)	Retained Area (ha)	% Retained
Modified grassland	87.68	18.99	22.00
Other neutral grassland	4.25	0.31	8.00
Mixed scrub	0.82	0.81	98.46
Bramble scrub	0.54	0.46	85.19
Other woodland; broadleaved	2.17	1.45	66.82
Ponds (Non-priority habitat)	0.11	0.11	100.00
Vacant / derelict land / bare ground	1.01	0.49	48.51
Non-cereal crops	91.14	0.66	0.72
Developed land; sealed surface	4.59	4.54	98.91
Urban trees	0.78	0.78	100.00

- **3.8** The northern section of Site that comprises the Park Farm, Fairfield Farm and Drakelow landholdings, is not proposed for solar development, with the majority of habitats retained and small areas lost to the creation of access tracks running north to south to the main Oaklands complex. This includes the retention of higher value areas of woodland, ponds, scrub and neutral grassland as well as a small area of cropland and large areas of modified grassland.
- **3.9** Within the southern Oaklands section, existing areas of woodland, scrub and ponds will be retained, with the majority of the landholding developed for solar use. The scheme has been sensitively designed to allow the retention of urban trees within the solar fields.

Retained Hedgerow Habitats

3.10 The hedgerow habitats retained within the Site are summarised in **Table 3.5**.

Table 3.5: Retained Hedgerow Habitats

Hedgerow Type	Baseline Length (km)	Retained Length (km)	% Retained
Line of Trees	1.04	1.04	100
Native hedgerow	1.33	1.12	84
Native species rich hedgerow	4.52	3.40	75
Native species rich hedgerow with trees	5.83	4.88	84
Native species rich hedgerow – associated with bank or ditch	0.23	0.23	100
Native species rich hedgerow with trees – associated with bank or ditch	0.40	0.40	100
Native hedgerow with trees	1.25	0.10	8

3.11 The majority of hedgerows on Site will be retained, with sections of H41 north, and H50 north removed for visibility splays. Additional short sections of hedgerows across the Site are to be removed for widening gateways and for the installation of temporary or permanent access tracks and cabling. Further detail on hedgerow removal is provided within ES Volume 3, Appendix 6.14: Arboricultural Survey Report. To avoid double counting, sections of hedgerow to be enhanced are not counted as 'retained' within this table, and instead detailed within Table 3.10 Enhanced Hedgerow Habitats. Many hedgerows on Site will be enhanced through the use of infill planting and management practices, as detailed in Table 3.11 and the Landscape

Strategy Plan within Appendix B of this report (also see ES Volume 3, Appendix 5.6: Outline Landscape Ecological Management Plan, Figures 5.1a-f).

Retained River Habitats

3.12 The river habitats retained within the Site are summarised in **Table 3.6**.

Table 3.6: Retained River Habitats

Watercourse Type	Baseline Length (km)	Retained Length (km)	% Retained
Ditches – standing water	0.83	0.22	26.51
Other River and Streams	1.32	1.32	100

3.13 The majority of River Habitats on Site will be retained as part of the Proposed Development. Several remaining ditches will be enhanced as part of the development, with a new wet ditch created in the north-west of Oaklands. To avoid double counting, the proposed enhanced ditches have not been included within the retained table above and are instead detailed within Table 3.12. Additionally, three sub-reaches of the river within the north of Oaklands will be enhanced through management and planting. River and ditch enhancements are detailed within Table 3.12 and shown on the Landscape Strategy Plan (ES Volume 3, Appendix 5.6: Outline Landscape Ecological Management Plan, Figures 5.1a-f, shown in Appendix B of this report).

Created Area Habitats

3.14 Area habitats created on-site are detailed within **Table 3.7**.

Table 3.7: Created Area Habitats

Habitat Type	Created Area (ha)
Developed land; sealed surface	6.45
Other woodland; broadleaved	5.51
Mixed scrub	0.71
Other neutral grassland	109.88
Urban tree	3.48

- **3.15** Access tracks and compound infrastructure will be created as part of the Proposed Development and comprise developed land; sealed surface habitat.
- 3.16 As enhancement and to provide screening for the development, areas of woodland understorey will be created in areas around the Site boundary within Oaklands. The woodland understorey will be of Moderate condition, as detailed in Appendix D, and will comprise of native species planting as detailed in the Landscape Strategy Plan (ES Volume 3 Appendix 5.6: Outline Landscape Ecological Management Plan, Figures 5.1a-f). Woodland understory planting will consist mainly of hazel Corylus avellana and hawthorn Crataegus monogyna with larger trees of mainly field maple Acer campestre and holly Ilex aquifolium. In addition to some blackthorn Prunus spinosa, purging blackthorn Rhamnus cathartica and grey willow Salix cinerea. As well as large trees of some crab apple Malus sylvestris, aspen Populus tremula and rowan Sorbus aucuparia. In addition to the woodland understorey, areas of mixed scrub will be created to increase habitat connectivity across the Site and to the wider landscape. The scrub will comprise a similar species mix to the woodland, with hazel and hawthorn being a large component.
- **3.17** Beneath the solar arrays, Other Neutral Grassland will be created through the use of a species rich meadow seed mix and management practices detailed in the Outline Landscape and Ecological Management Plan (LEMP) (**ES Volume 3, Appendix 5.6: Outline Landscape Ecological Management Plan**).

3.18 In accordance with the objectives of the National Forest to increase woodland cover and tree planting, areas of scattered trees are proposed within fields P1 and O3 (see Figure 1.4a and 1.4b: Field Numbers, ES Volume 2), with enhanced species rich neutral grassland beneath. The proposed condition proforma of these urban trees is set at Poor and detailed within Appendix E, with species consisting mainly of pedunculate oak, field maple, and holly with some crab apple, aspen, rowan and small leaved lime. As the density of scattered trees if yet to be finalised, the number of trees is taken form the Landscape Strategy Plan (Appendix B), and the Urban Tree Helper in the 3.1 Metric used to calculate created area, using a condition of Poor and a size of Medium.

Created Hedgerow Habitats

3.19 Hedgerow created on-site are detailed within **Table 3.8**.

Table 3.8: Created Hedgerow

Hedgerow Type	Created Length (km)
Native species rich hedgerow	2.86

- **3.20** Sections of Native species rich hedgerow are to be created within the Oaklands section to provide enhancement, mitigation for glint and glare, and screening of the development. New hedgerow planting to comprise mainly of hawthorn with some hazel, holly, field maple, blackthorn and purging blackthorn.
- **3.21** Hedgerow is to be created along the proposed Permissive Right of Way, that lies within fields O3, O6, and O9, in the south of Oaklands Farm. In addition, hedgerow will be created along the northern boundary of proposed planting within the O3, and at several points around the Oaklands Farm Site boundary in field O1, for greater screening and habitat connectivity. Additional hedgerow is proposed along the farmers track along O4, and to the north of Coton Road within O4, to increase visual screening. Within field O2 to the south of Coton Road, hedgerow is proposed against the fence line and set back from the road for visual screening. Hedgerow is proposed to consist of 'Native species rich hedgerow' of Good condition, as detailed

in **Appendix E**. Hedgerow will comprise mainly pedunculate oak, field maple and small leaved lime with occasional crab apple, aspen and rowan.

Created River Habitats

3.22 River habitats to be created on-site are detailed within **Table 3.9**.

Table 3.9: Created River Habitats

River Type	Created Length (km)
Ditches	0.23

3.23 A wet ditch is proposed to be created along the southern boundary of field O18 to improve the connectivity of the existing ditch network. It is conservatively proposed to be of poor condition, due to the anticipated failing of criteria 4, 5 and 7 due to the likely damage from construction and shading from the adjacent planting area.

Enhanced Area Habitats

3.24 The proposed on-site area habitats enhancements are detailed within **Table 3.10**.

Table 3.10: Enhanced Area Habitats

Baseline Habitat Type	Proposed Enhancement	Area (ha)
Modified grassland – poor condition	Other neutral grassland – moderate condition	38.78
Other neutral grassland – poor condition	Other neutral grassland – moderate condition	3.17

3.25 Existing modified and neutral grassland on Site is to be enhanced to moderate condition neutral grassland and managed as species rich grassland through the use of a meadow grassland seed mix such as EM2 Standard General Purpose Meadow Mix and maintained through management practices as detailed in the LEMP (ES Appendix 5.6: Outline Landscape Ecological Management Plan).

Enhanced Hedgerow Habitats

3.26 The proposed on-site hedgerow habitats enhancements are detailed within Table 3.11.

Table 3.11: Enhanced Hedgerow Habitats

Baseline Habitat Type	Proposed Enhancement	Length (km)
Native hedgerow – Moderate condition	Native hedgerow – Good condition	0.12
Native hedgerow – Good condition	Native species rich hedgerow – Good condition (Distinctiveness movement Low – Medium)	0.07
Native species rich hedgerow – Moderate condition	Native species rich hedgerow – Good condition	0.34
Native species rich hedgerow – Moderate condition	Native species rich hedgerow – Good condition	0.57
Native species rich hedgerow with trees – Poor condition	Native species rich hedgerow with trees – Moderate condition	0.32
Native species rich hedgerow with trees – Moderate condition	Native species rich hedgerow with trees – Good condition	0.61
Native hedgerow with trees – Moderate condition	Native species rich hedgerow with trees – Moderate condition (Distinctiveness movement Medium – High)	0.58
Native hedgerow with trees – Moderate condition	Native species rich hedgerow with trees – Moderate condition (Distinctiveness movement Medium – High)	0.57

3.27 Existing hedgerow on site is to be enhanced through the use of infill planting of native species to fill in gaps and enhance their conditions by passing criteria B2. In addition, some hedgerows are to be allowed to grow taller to aid with screening and wider to pass criteria A2 of width greater than 1.5m. Infill hedgerow planting to comprise mainly of hawthorn with some hazel, holly, field maple, blackthorn and purging blackthorn.

Enhanced River Habitats

3.28 The proposed on-site river habitat enhancements are detailed below in **Table 3.12**.

Table 3.12: Enhanced River Habitats

Baseline River Type	Proposed Enhancement	Length (km)
Ditches – poor condition	Ditches – moderate condition	0.48
Ditches – poor condition	Ditches – moderate condition	0.13
Other Rivers and Streams – moderate condition	Other Rivers and Streams – fairly- good condition (Sub-reaches A and B)	0.57
Other Rivers and Streams – moderate condition	Other Rivers and Streams – fairly- good condition (Sub-reach Y)	0.24

- **3.29** Ditches 7 and 17 within the Oaklands Farm Area will be enhanced as part of the Proposed Development with condition assessments detailed within **Appendix E**. The ditches will be enhanced to Moderate condition through the planting of native marginal aquatic species, and selective thinning of bankside woody vegetation to reduce shading. In addition, for Ditch 17 a greater buffer strip of undisturbed vegetation will be allowed to develop on both sides of the ditch to reduce eutrophication. This will in turn help to increase the water quality of the ditch.
- **3.30** The river sub-reaches will be enhanced to fairly good condition through proposed planting of scrub, and trees along the bank tops as well as marginal planting on the bank face.

Chapter 3
Biodiversity Net Gain Calculations

Oaklands Farm Solar Park January 2024

Post Development

- **3.31** The post development design proposals are shown within **Appendix B**.
- 3.32 A large proportion of the Site post development will be covered by solar arrays with poor condition neutral grassland beneath them. The existing tree lines and hedgerows will be largely retained with sections of hedgerow enhanced through the use of infill planting of native species and improved management. The existing ponds, ditches and woodland will be retained on Site and the solar arrays are situated around these areas. Outside of the main arrays, moderate condition neutral grassland will be created with the existing grassland enhanced to the same. Throughout the Site, access tracks and site compound infrastructure will be created of developed land sealed surface and will be sited sensitivity to minimise the amount of hedgerow breaching and scrub clearance required.

Chapter 4 Discussion

Biodiversity Net Gain Results

- **4.1** The mitigation and enhancement set out within this document includes a highly precautionary approach within the parameters of the application and makes conservative estimates of the amount of loss and creation. The resulting outcome of the BNG assessment under these assumption is as follows:
 - A net gain of 565.51 habitat units which is a 125.07% increase from the baseline units.
 - A net gain of 37.92 hedgerow units which is an 20.02% increase from the baseline units.
 - A net gain of 4.18 river units which is a 19.82% increase from baseline units.
- **4.2** The Headline Results and Trading Summary are contained within **Appendix F**.
- **4.3** The key influential factor to the BNG calculations for habitat units was the replacement of extensive areas of poor semi-improved (modified) grassland and arable land with neutral grassland of poor condition beneath the arrays and moderate condition outside of the arrays. Project wide unit changes for each habitat group are summarised in **Table 4.1.**
- 4.4 The successful delivery of BNG at the detailed design stage would require detailed landscaping plans and the production of a detailed Landscape and Ecology Management Plan (LEMP), further to the existing Outline LEMP (ES Appendix 5.6: Outline Landscape Ecological Management Plan). This document would specify how the condition targets set through the Defra 3.1 Metric will be entered into management in the long term.
- **4.5** The existing levels of protection afforded to protected species and habitats are not changed by use of this or any other metric. Statutory obligations will still need to be satisfied.

Table 4.1: Unit Change by Area Habitat Group

Habitat Group	Project Wide Unit Change
High Distinctiveness	
None	N/A
Medium Distinctiveness	
Grassland – Other neutral grassland	877.92
Woodland and forest – Other woodland; broadleaved	23.08
Urban – Urban Tree	11.21
Heathland and shrub – Mixed scrub	5.14
Heathland and shrub – Bramble scrub	-0.35
Low Distinctiveness	
Cropland – Non-cereal crops	-199.06
Grassland – Modified grassland	-151.12
Urban – Vacant/derelict land/ bare ground	-1.32

^{4.6} In addition, trading rules were satisfied as summarised in Table 4.2 below.

Table 4.2: Trading Summary

Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Bespoke compensation likely to be required	Yes
High	Same habitat required	Yes
Medium	Same broad habitat or a higher distinctiveness habitat required	Yes
Low	Same distinctiveness or better habitat required	Yes

Overview of Changes

- **4.7** The majority of the losses on Site were due to the loss of arable cropland and modified grassland across Oaklands. As these habitats are of low distinctiveness, the majority of losses occurred within this distinctiveness group.
- **4.8** However, due to the trading rules of low distinctiveness habitats of 'Same distinctiveness or better habitat required', these were offset by the creation of medium distinctiveness habitats, namely neutral grassland, which provided a total of 917.00 medium distinctiveness units available to offset the lower distinctiveness deficit.
- **4.9** Post development, 37.92 hedgerow units are to be delivered producing a 20.02% gain. The gain is dependent on the delivery of the proposed created hedgerows detailed in **Table 3.8**. This comprises sections along field O1, hedgerow along the eastern side of the Permissive Right of Way, hedgerow along the northern boundary of the planting area in O3, hedgerow within field O2 set back from Coton road for visual screening, and sections along the western and southern boundaries of field O4. In addition, shorter sections are proposed throughout the Site connecting gaps within existing hedgerows.
- **4.10** An increase in river units will be achieved through the enhancement of three sub-reaches of the river within Site, shown on the Landscape Strategy Plan **(ES Volume 2, Appendix 5.6: Figures 5.8a and 5.8b)**. Sub-reaches A and B will be enhanced from moderate to fairly good

Chapter 4 Discussion

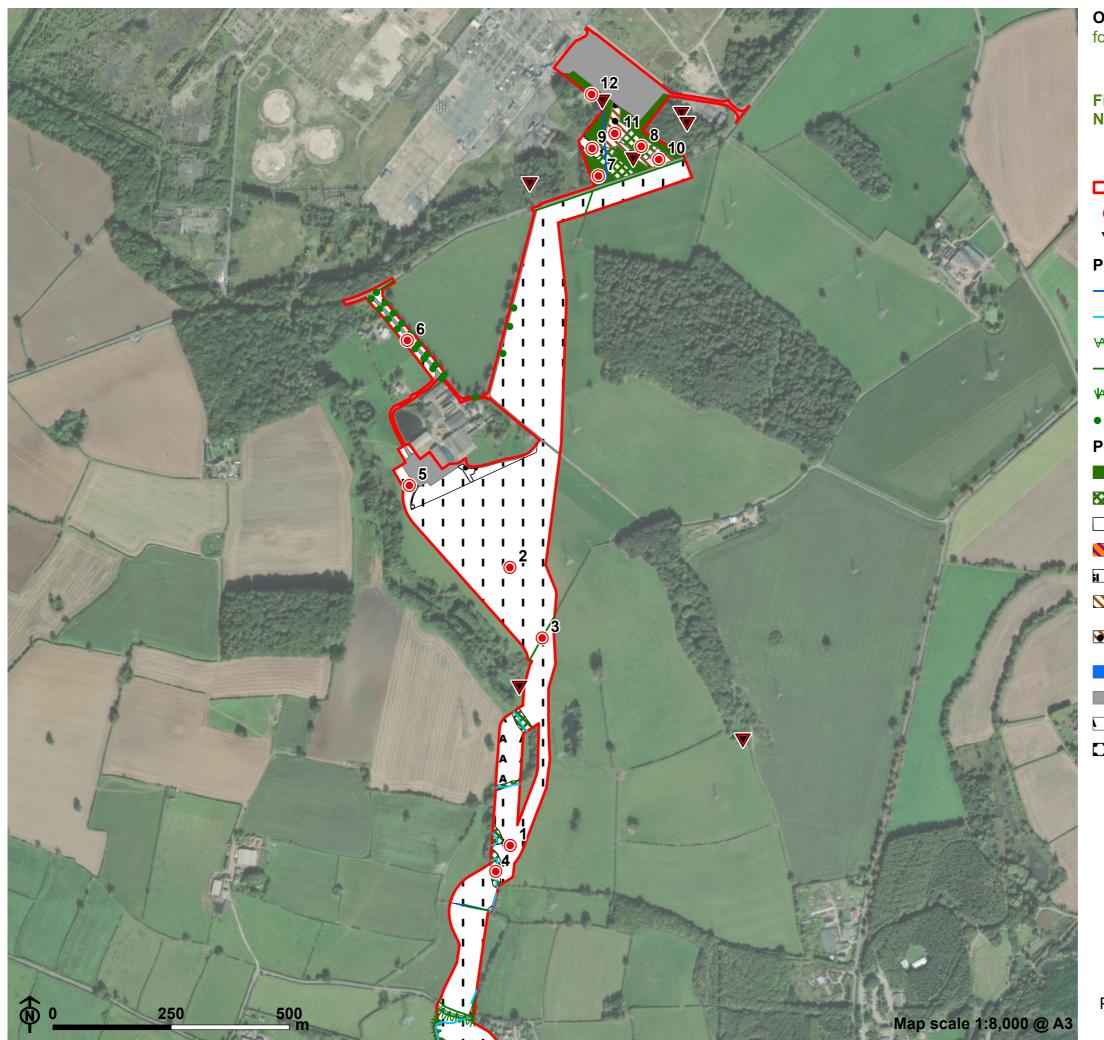
Oaklands Farm Solar Park January 2024

condition through the proposed planting of scrub, trees and species rich grassland along the bank tops. Sub-reach Y will be increased from a moderate to fairly-good condition through the same enhancements and marginal planting such as emergent reeds on the bank face. Further details of the river enhancements are detailed within **Technical Appendix 5.6 Outline Landscape Ecological Management Plan.**

Ensuring Delivery

- **4.11** To ensure BNG is delivered within the Site it is recommended that habitat creation and enhancement measures are secured through an appropriate mechanism via the Development Consent Order.
- An Outline Landscape and Ecological Management Plan (LEMP) (ES Volume 3, Appendix 5.6), has been prepared which details how the final landscaping and ecological enhancements will be delivered within the Site.
- The delivery of these measures throughout the construction phase is detailed within the Outline Construction and Environmental Management Plan (CEMP) (ES Volume 3, Appendix 4.3). Measures secured in the CEMP are summarised in ES Volume 3, Appendix 17.1: Mitigation Schedule.
- **4.12** The final level of commitment provided through these documents should be proportionate to the impact of the proposals.

Appendix A Phase 1 Figures



for Oaklands Farm Solar Ltd



Figure 6.5.1a: Phase 1 Habitat Plan North

- Site boundary
- Target note
- ▼ Invasive species

Phase 1 linear

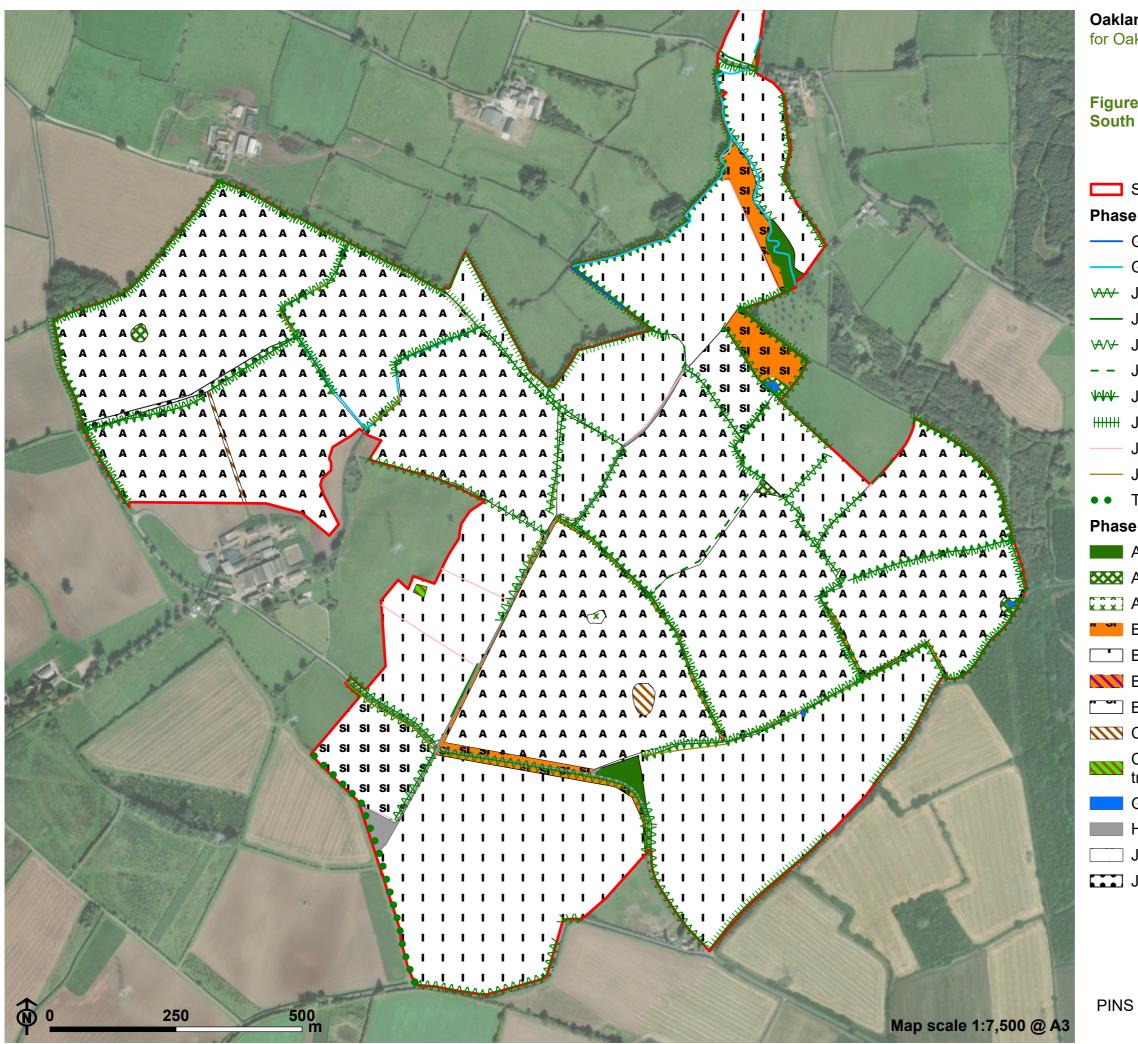
- G1 Standing water
- G2 Running water
- ₩ J2.1.1 Intact hedge (native species-rich)
- J2.1.2 Intact hedge (species-poor)
- ₩₩ J2.3.1 Hedge with trees (native species-rich)
- • TL Tree line

Phase 1 habitat

- A1.1.1 Broadleaved woodland (semi-natural)
- A2.1 Scrub (dense/continuous)
- B4 Improved grassland
- B5 Marshy grassland
- **B** B6 Poor semi-improved grassland
- C3.1 Other tall herb and fern (ruderal)
- C3.1 Other tall herb and fern (ruderal)/J4 Bare ground
- G1 Standing water
- HS Hard standing
- **▲** J1.1 Arable
- J4 Bare ground



PINS reference: EN010122



for Oaklands Farm Solar Ltd



Figure 6.5.1b: Phase 1 Habitat Plan

Site boundary

Phase 1 linear

- G1 Standing water
- G2 Running water
- ₩ J2.1.1 Intact hedge (native species-rich)
- J2.1.2 Intact hedge (species-poor)
- ₩₩ J2.2.1 Defunct hedge (native species-rich)
- J2.2.2 Defunct hedge (species-poor)
- J2.3.1 Hedge with trees (native species-rich)
- #### J2.3.2 Hedge with trees (species-poor)
- J2.4 Fence
- J2.6 Dry ditch
- • TL Tree line

Phase 1 habitat

- A1.1.1 Broadleaved woodland (semi-natural)
- A2.1 Scrub (dense/continuous)
- A2.2 Scrub (scattered)
- B2.2 Neutral grassland (semi-improved)
- B4 Improved grassland
- B5 Marshy grassland
- B6 Poor semi-improved grassland
- C3.1 Other tall herb and fern (ruderal)
- C3.1 Other tall ruderal/A3.2 Coniferous scattered
- G1 Standing water
- **HS Hard standing**
- J1.1 Arable
- J4 Bare ground

LUC

PINS reference: EN010122

Appendix B Landscape Proposals



BayWa r.e.



Figure 1a: Illustrative Landscape Strategy Plan

Existing Public Rights of Way (PRoW)

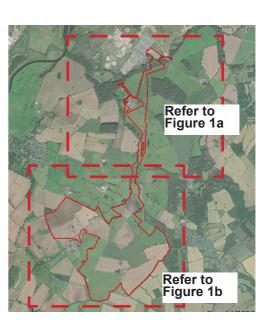
Existing trees & vegetation retained

Watercourse contributor to Pessall Brook/River Trent

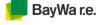
Existing Roads

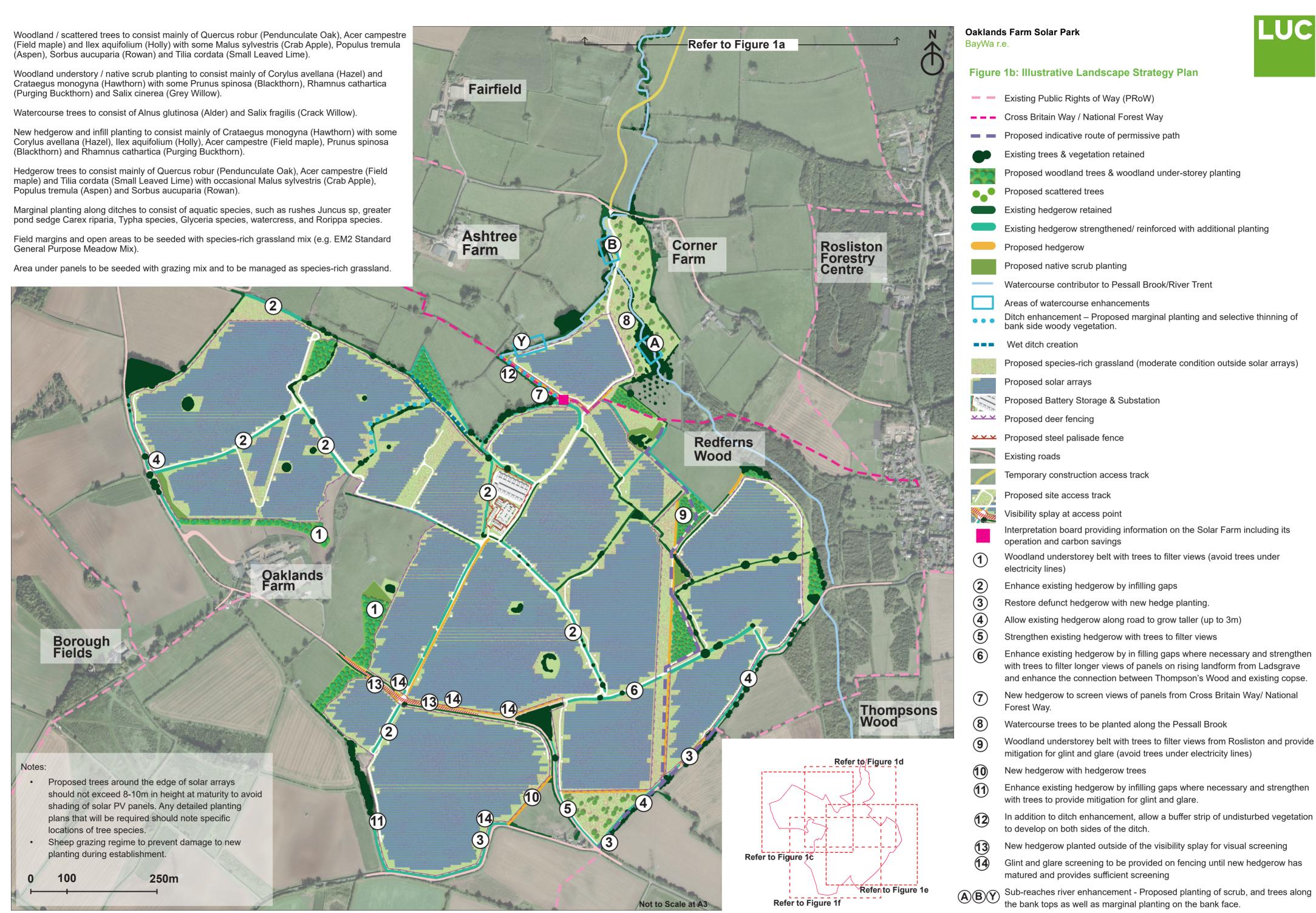
Temporary construction access track

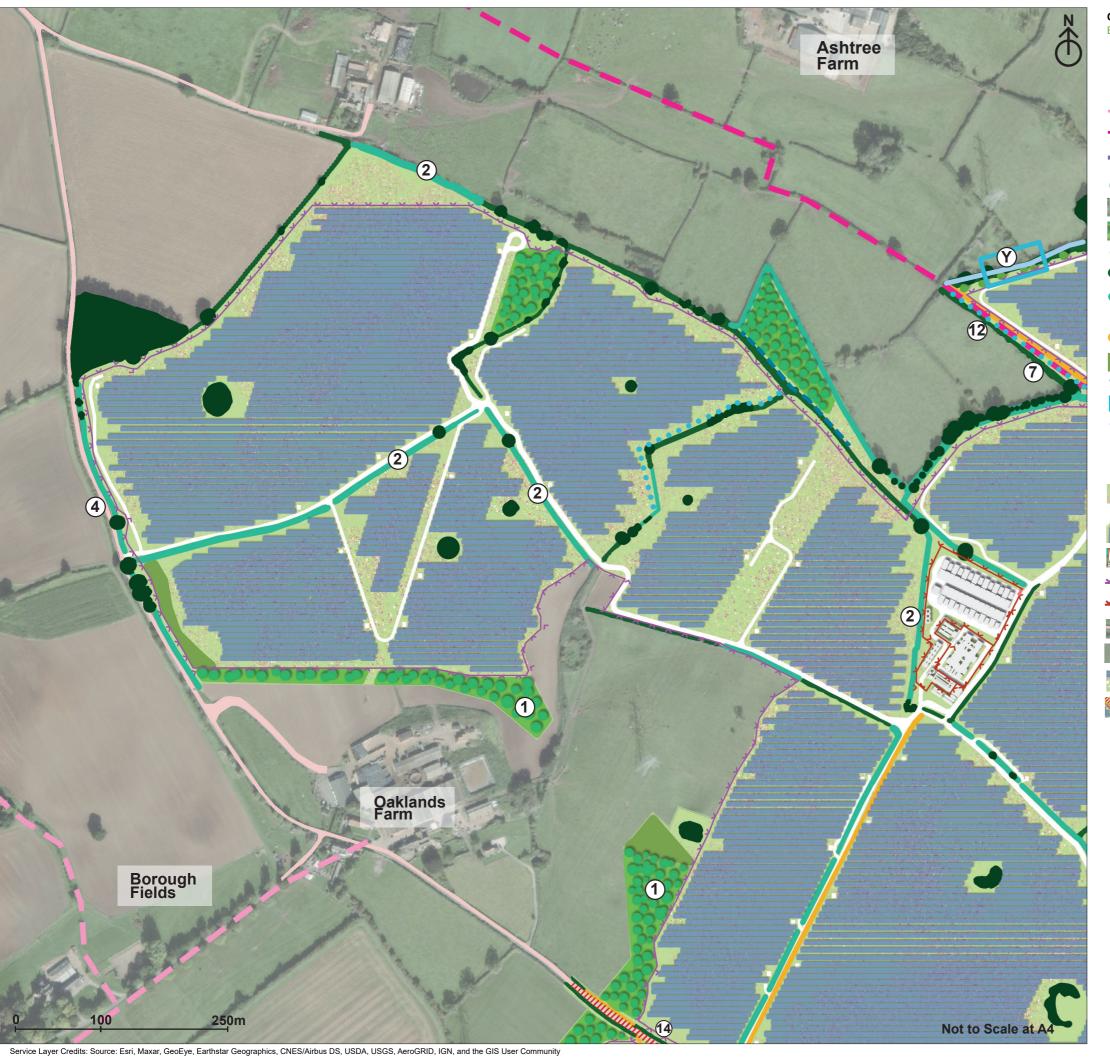
Proposed site access track



Site Location Plan





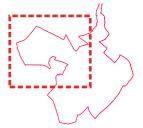


BayWa r.e.



Figure 1c: Illustrative Landscape Strategy Plan

- - Existing Public Rights of Way (PRoW)
- -- Cross Britain Way / National Forest Way
- Proposed indicative route of permissive path
- Existing trees & vegetation retained
- Existing grassland/pasture/arable retained within site
- Proposed woodland trees & woodland understorey planting
- Proposed scattered trees
- Existing hedgerows retained
- Existing hedgerow strengthened/ reinforced with additional planting
- Proposed hedgerow
- Proposed native scrub planting
- Watercourse contributor to Pessall Brook/River Trent
- Areas of watercourse enhancements
- Ditch enhancement Proposed marginal planting and selective thinning of bankside woody vegetation.
- Wet ditch creation
- Proposed species-rich grassland (moderate condition outside solar arrays)
- Proposed solar arrays
- Proposed Battery Storage & Substation
- Proposed deer fencing
- Proposed steel palisade fence
- Existing Roads
 - ______
 - Temporary construction access track
- Proposed site access track
- Visibility splay at access point
- Woodland understorey belt with trees to filter views (avoid trees under electricity lines)
- 2) Enhance existing hedgerow by infilling gaps
- 4 Allow existing hedgerow along road to grow taller (up to 3m)
- New hedgerow to screen views of panels from Cross Britain Way/ National Forest Way.
- In addition to ditch enhancement, allowing a buffer strip of undisturbed vegetation to develop on both sides of the ditch.
- Glint and glare screening to be provided on fencing until new hedgerow has matured and provides sufficient screening
- Sub-reach river enhancement Proposed planting of scrub, and trees along the bank tops as well as marginal planting on the bank face.





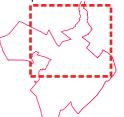


BayWa r.e.



Figure 1d: Illustrative Landscape Strategy Plan

- - Existing Public Rights of Way (PRoW)
- --- Cross Britain Way / National Forest Way
- Proposed indicative route of permissive path
- Existing trees & vegetation retained
- Existing grassland retained within site
- Proposed woodland trees & woodland understorey planting
- Proposed scattered trees
- Existing hedgerow retained
- Existing hedgerow strengthened/ reinforced with additional planting
- Proposed hedgerow
- Proposed native scrub planting
- Watercourse contributor to Pessall Brook/River Trent
- Areas of watercourse enhancements
- Ditch enhancement Proposed marginal planting and selective thinning of bankside woody vegetation.
- ■ Wet ditch creation
- Proposed species-rich grassland (moderate condition outside solar arrays)
 - outoido obiai dirayo)
- Proposed solar arrays
- Proposed Battery Storage & Substation
- Proposed deer fencing
- Proposed steel palisade fence
- Existing roads
 - Temporary construction access track
- Site access track
- Interpretation board providing information on the Solar Farm including its operation and carbon savings
- Visibility splay at access point
- Woodland understorey belt with trees to filter views (avoid trees under
- 2 Enhance existing hedgerow by infilling gaps
- New hedgerow to screen views of panels from Cross Britain Way/ National Forest Way.
- (8) Watercourse trees to be planted along the Pessall Brook
- Woodland understorey belt with trees to filter views from Rosliston and provide mitigation for glint and glare (avoid trees under electricity lines)
- In addition to ditch enhancement, allowing a buffer strip of undisturbed vegetation to develop on both sides of the ditch.
- River enhancement Proposed planting of scrub, and trees along the bank tops as well as marginal planting on the bank face.







BayWa r.e.

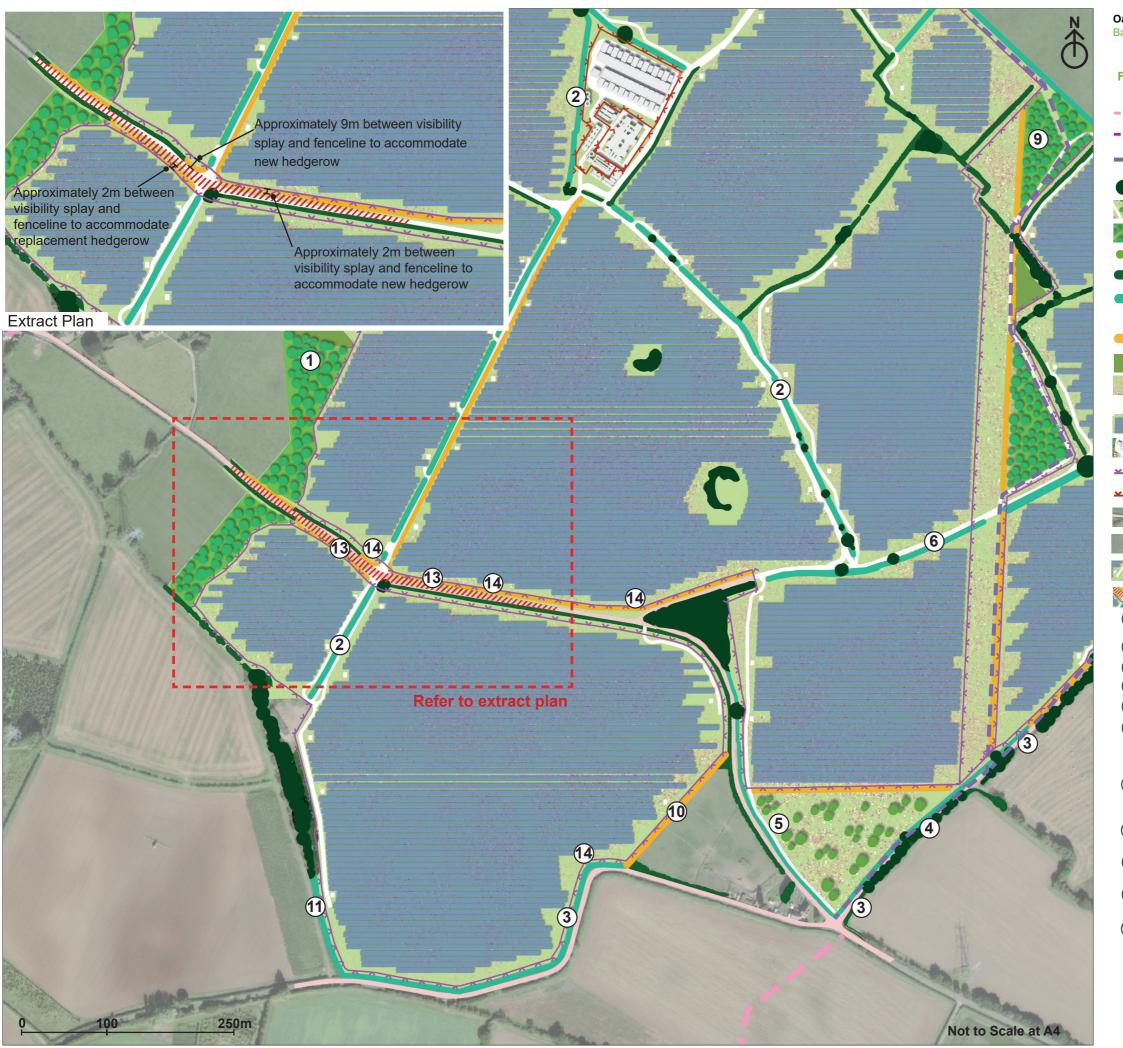


Figure 1e: Illustrative Landscape Strategy Plan

- = = Existing Public Rights of Way (PRoW)
- - Cross Britain Way / National Forest Way
- Proposed indicative route of permissive path
- Existing trees & vegetation retained
- Existing grassland retained within site
- Proposed woodland trees & woodland understorey planting
- Proposed scattered trees
- Existing hedgerow retained
- Existing hedgerow strengthened/ reinforced with additional
- Proposed hedgerow
- Proposed native scrub planting
- Watercourse contributor to Pessall Brook/River Trent
- Wet ditch creation
- Proposed species-rich grassland (moderate condition outside solar arrays)
- Proposed solar arrays
- Proposed Battery Storage & Substation
- Proposed deer fencing
- Proposed steel palisade fence
- Existing Roads
- Temporary construction access track
- Site access track
- Interpretation board providing information on the Solar Farm including its operation and carbon savings
- Visibility splay at access point
- Enhance existing hedgerow by infilling gaps
- Restore defunct hedgerow with new hedge planting.
- Allow existing hedgerow along road to grow taller (up to 3m) **(4)**
- Strengthen existing hedgerow with trees to filter views
- Enhance existing hedgerow by in filling gaps where necessary and strengthen with trees to filter longer views of panels on rising landform from Ladsgrave and enhance the connection between Thompson's Wood and existing copse.
- New hedgerow to screen views of panels from Cross Britain Way/ National Forest Way.
- Woodland understorey belt with trees to filter views from Rosliston and provide mitigation for glint and glare (avoid trees under electricity
- New hedgerow planted outside of the visibility splay for visual
- Glint and glare screening to be provided on fencing until new hedgerow has matured and provides sufficient screening





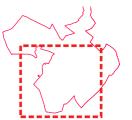


BayWa r.e.



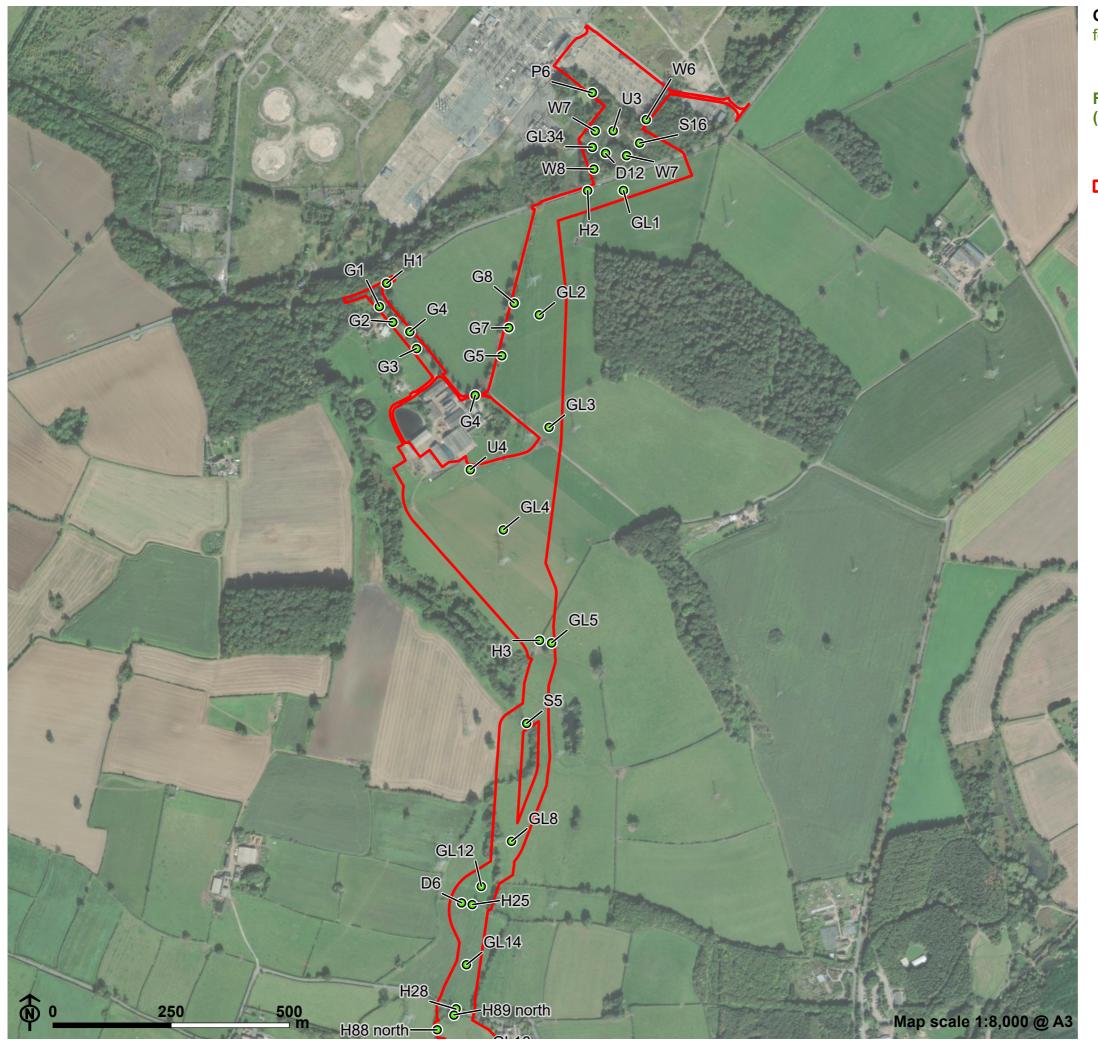
Figure 1f: Illustrative Landscape Strategy Plan

- Existing Public Rights of Way (PRoW)
- -- Cross Britain Way / National Forest Way
- Proposed indicative route of permissive path
- Existing trees & vegetation retained
- Existing grassland retained within site
- Proposed woodland trees & woodland understorey planting
- Proposed scattered trees
- Existing hedgerow retained
- Existing hedgerow strengthened/ reinforced with additional
- Proposed hedgerow
- Proposed native scrub planting
- Proposed species-rich grassland (moderate condition
 - outside solar arrays)
- Proposed solar arrays
- Proposed Battery Storage & Substation
- Proposed deer fencing
- Proposed steel palisade fence
- Existing roads
- Temporary construction access track
- Site access track
- Visibility splay at access point
- Woodland under-storey belt with trees to filter views (avoid trees
- under electricity lines)
- 2 Enhance existing hedgerow by infilling gaps
- Restore defunct hedgerow with new hedge planting.
- (4) Allow existing hedgerow along road to grow taller (up to 3m)
- (5) Strengthen existing hedgerow with trees to filter views
- Enhance existing hedgerow by in filling gaps where necessary and strengthen with trees to filter longer views of panels on rising landform from Ladsgrave and enhance the connection between Thompson's Wood and existing copse.
- Woodland understorey belt with trees to filter views from Rosliston and provide mitigation for glint and glare (avoid trees under electricity lines)
- New hedgerow with hedgerow trees to provide mitigation for glint and glare impacts for road users
- Enhance existing hedgerow by infilling gaps where necessary and strengthen with trees
- New hedgerow planted outside of the visibility splay for visual screening
- Glint and glare screening to be provided on fencing until new hedgerow has matured and provides sufficient screening





Appendix C BNG Reference Points



Oaklands Farm Solar Park

for Oaklands Farm Solar Ltd



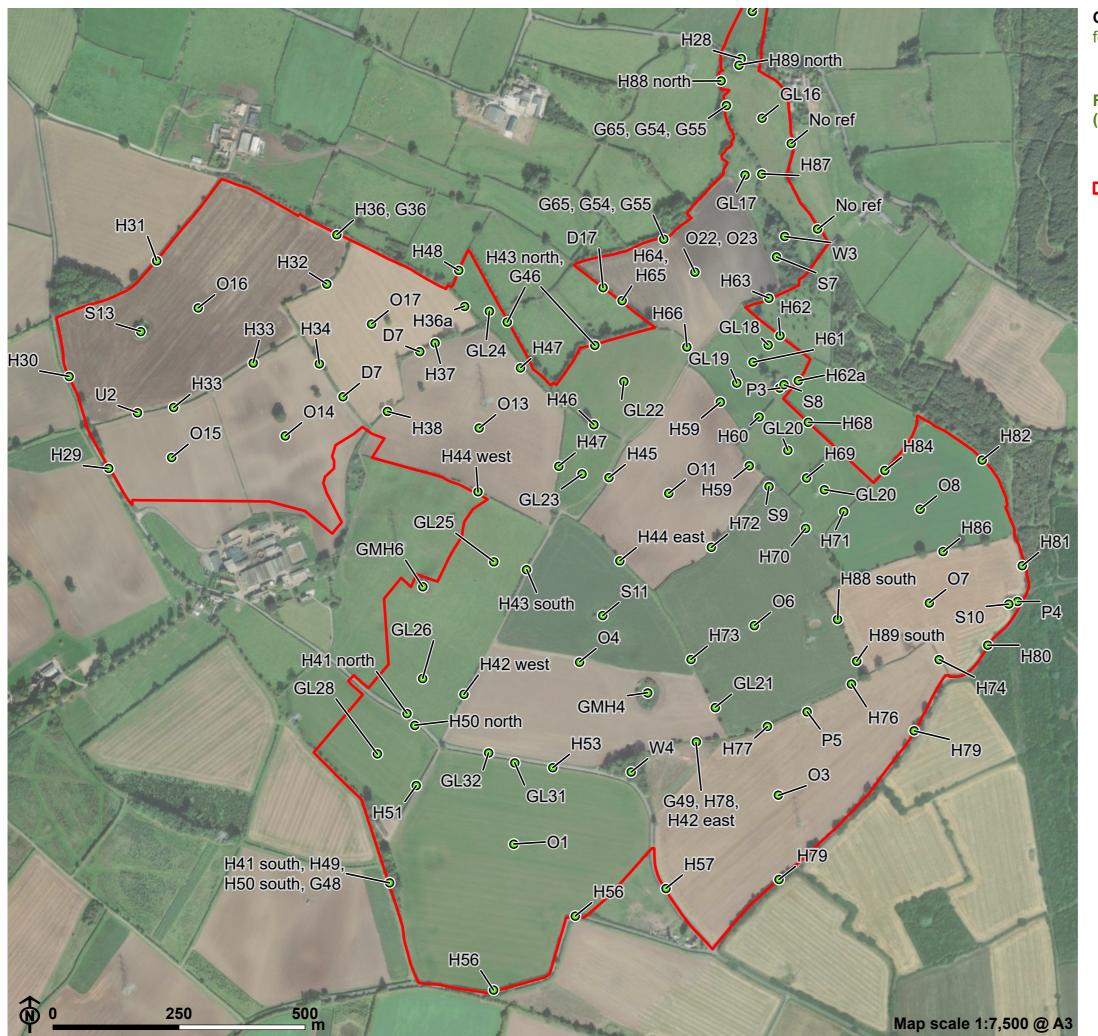
Figure 6.12.1a: Biodiversity Net Gain (BNG) Plan North

Site boundary

BNG reference point

PINS reference: EN010122





for Oaklands Farm Solar Ltd



Figure 6.12.1b: Biodiversity Net Gain (BNG) Plan South

Site boundary

BNG reference point

EN010122

Appendix D

Baseline Assessment Proformas

Habitats

Table D.1: Modified grassland

JNCC PH		B4 Improved grassland	Distinctive		LOW		
Classifica	tion						
UKHABS			Strategic	l	ocation ecologically		
Classifica	tion	Grassland – Modified Grassland	Significand	e c	desirable but not in		
				1	ocal strategy		
Condition		Grassland Habitat Type (low	Area (Ha)		32.41		
Sheet		distinctiveness)			52.41		
			Polygon	(GL1, GL2, GL3, GL4,		
				(GL5, GL6, GL7, GL8,		
				(GL12, GL14		
Limitation	S	None		(GL16, GL20, GL23,		
				(GL22, GL24, GL25,		
				(GL26, GL27		
				(O1, O3, O22, O23		
		Grasslands were heavily grazed v	vith species	incluc	ling locally dominant		
		crested dog's tail Cynosurus cristatus, abundant perennial ryegrass Lolium					
		perenne and annual meadow-grass	Poa annua,	freque	nt soft brome <i>Bromus</i>		
Habitat		hordeaceus, occasional creeping	•		•		
Description	on	dandelion <i>Taraxacum</i> agg., mead					
		clover <i>Trifolium repens</i> , lesser stitchwort <i>Stellaria graminea</i> , red clover					
		Trifolium pratense, lesser trefoil Cardamine pratensis.	Tritolium c	lubium	and cuckoo flower		
Criterion	Cond	lition Assessment Criteria		Result	Rationale		
1	There	e must be 6-8 species per m2.			Less than 6		
				Fail	species per m2.		

JNCC PH1 Classificat	l B	34 Improved grassland	Distinctiven	ess L	OW
UKHABS Classificat	ion Gı	rassland – Modified Grassland	Strategic Significance	d	ocation ecologically esirable but not in ocal strategy
Condition Sheet		rassland Habitat Type (low stinctiveness)	Area (Ha)	8	2.41
				GL1, GL2, GL3, GL4, GL5, GL6, GL7, GL8, GL12, GL14	
Limitations	S No	one		G	GL16, GL20, GL23, GL22, GL24, GL25, GL26, GL27
				C	01, O3, O22, O23
Grasslands were heavily grazed with specrested dog's tail <i>Cynosurus cristatus</i> , abut perenne and annual meadow-grass <i>Poa authordeaceus</i> , occasional creeping butter dandelion <i>Taraxacum</i> agg., meadow fox clover <i>Trifolium repens</i> , lesser stitchwort <i>Trifolium pratense</i> , lesser trefoil <i>Trifolium Cardamine pratensis</i> .				t peren irequer Ranunc Iopecu Iaria g	inial ryegrass Lolium at soft brome Bromus fulus repens, rarely rus pratensis, white raminea, red clover
Criterion	Conditio	n Assessment Criteria		Result	Rationale
	provide o	eight is varied creating microclimat opportunities for insects, birds and ls to live and breed.		Fail	Sward height was all one length and uniform

JNCC PH1 Classification	B4 Improved grassland	Distinctivenes	Low	
UKHABS Classification	Grassland – Modified Grassland	Strategic Significance	Location ecological desirable but not in local strategy	•
Condition Sheet	Grassland Habitat Type (low distinctiveness)	Area (Ha)	82.41	
		Polygon	GL1, GL2, GL3, GL GL5, GL6, GL7, GL GL12, GL14	
Limitations	None		GL16, GL20, GL23 GL22, GL24, GL25 GL26, GL27	
			O1, O3, O22, O23	
Habitat Description	Grasslands were heavily grazed of crested dog's tail <i>Cynosurus cristati</i> perenne and annual meadow-grass hordeaceus, occasional creeping dandelion <i>Taraxacum</i> agg., mead clover <i>Trifolium repens</i> , lesser st <i>Trifolium pratense</i> , lesser trefoil <i>Cardamine pratensis</i> .	tus, abundant p Poa annua, fre buttercup Rai low foxtail Aloj itchwort Stellar	perennial ryegrass Loli equent soft brome Bron anunculus repens, rar opecurus pratensis, wh aria graminea, red clo	ium nus rely nite ver
Criterion Cor	dition Assessment Criteria	Re	esult Rationale	
pre	ne scattered scrub (including bramble) sent, but scrub accounts for less than 2 ssland area.		No scrub preser	nt

JNCC PH		B4 Improved grassland	Distinctive	ness L	.ow	
UKHABS Classifica		Grassland – Modified Grassland	Strategic Significand	ce c	ocation ecologically lesirable but not in ocal strategy	
Condition Sheet		Grassland Habitat Type (low distinctiveness)	Area (Ha)	8	32.41	
Limitations		None	Polygon		GL1, GL2, GL3, GL4, GL5, GL6, GL7, GL8, GL12, GL14 GL16, GL20, GL23, GL22, GL24, GL25, GL26, GL27 O1, O3, O22, O23	
Habitat Description	on	Grasslands were heavily grazed vertices of the crested dog's tail Cynosurus cristate perenne and annual meadow-grass hordeaceus, occasional creeping dandelion Taraxacum agg., meade clover Trifolium repens, lesser stit Trifolium pratense, lesser trefoil Cardamine pratensis.	us, abunda Poa annua, buttercup ow foxtail tchwort Ste	nt perer frequer Ranund Alopecu ellaria g	nnial ryegrass Lolium nt soft brome Bromus culus repens, rarely arus pratensis, white graminea, red clover	
Criterion	Cond	ition Assessment Criteria		Result	Rationale	
4	Physical damage evident in less than 5% of total grassland area.			Pass	Less than 5% physical damage.	

JNCC PH1 Classification	B4 Improved grassland Distinctivene			ow		
UKHABS Classification			de	ocation ecologically esirable but not in cal strategy		
Condition Sheet	Grassland Habitat Type (low distinctiveness)	Area (Ha)	82	2.41		
		Polygon		L1, GL2, GL3, GL4, L5, GL6, GL7, GL8, L12, GL14		
Limitations	None		G	L16, GL20, GL23, L22, GL24, GL25, L26, GL27		
			0	1, O3, O22, O23		
	Grasslands were heavily grazed vectorested dog's tail Cynosurus cristati perenne and annual meadow-grass	<i>u</i> s, abundant p	eren	nial ryegrass <i>Lolium</i>		
Habitat	hordeaceus, occasional creeping buttercup Ranunculus repens, rarely					
Description	dandelion Taraxacum agg., meadow foxtail Alopecurus pratensis, white					
	clover Trifolium repens, lesser stitchwort Stellaria graminea, red clover					
	Trifolium pratense, lesser trefoil Cardamine pratensis.	Trifolium dub	ium	and cuckoo flower		
Criterion Cond	lition Assessment Criteria	Re	esult	Rationale		
	Cover of bare ground between 1% and 10%, including localised areas.			Bare ground less than 1%.		
6 Cove	r of bracken less than 20%.	Pa	ass	No bracken noted.		

JNCC PH1 Classificati	B4 Improved grassland	Distinctiveness	Low
UKHABS Classificati	on Grassland – Modified Grassland	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Grassland Habitat Type (low distinctiveness)	Area (Ha)	82.41
		Polygon GL1, GL2, G GL5, GL6, G GL12, GL14	
Limitations	None		GL16, GL20, GL23, GL22, GL24, GL25, GL26, GL27
			O1, O3, O22, O23
Habitat Description	Grasslands were heavily grazed crested dog's tail Cynosurus crista perenne and annual meadow-grass hordeaceus, occasional creeping dandelion Taraxacum agg., mead clover Trifolium repens, lesser s Trifolium pratense, lesser trefoil Cardamine pratensis.	tus, abundant pe Foa annua, freque buttercup Rand dow foxtail Alope titchwort Stellaria	rennial ryegrass Lolium uent soft brome Bromus unculus repens, rarely ecurus pratensis, white a graminea, red clover
Criterion	Condition Assessment Criteria	Res	ult Rationale
	There is an absence of invasive non-nativ (as listed on Schedule 9 of WCA, 1981).	e species Pas	No invasive non- native species present.

JNCC PH1 Classification	B4 Improved	grassland	Distino	ctiveness	Low	
UKHABS			Strate	gic	Location ecologically	
Classification	Grassland – M	lodified Grassla	nd Signifi	cance	desirable but not in	
					local strategy	
Condition	Grassland Hal	oitat Type (low	Area ([На)	82.41	
Sheet	distinctiveness	s)			02.11	
			Polygo	on	GL1, GL2, GL3, GL4,	
					GL5, GL6, GL7, GL8,	
					GL12, GL14	
Limitations	None				GL16, GL20, GL23,	
					GL22, GL24, GL25,	
					GL26, GL27	
					O1, O3, O22, O23	
	Grasslands w	ere heavily gra	azed with sp	ecies inclu	uding locally dominant	
	crested dog's	tail Cynosurus cristatus, abundant perennial ryegrass Lolium				
	perenne and a	annual meadow-grass <i>Poa annua</i> , frequent soft brome <i>Bromus</i>				
Habitat	· ·			•	nculus repens, rarely	
Description					curus pratensis, white	
		•			graminea, red clover	
	,		retoil <i>Fritoliu</i>	ım dubiur	n and cuckoo flower	
	Cardamine pra	atensis.				
Criterion Cond	lition Assessme	nt Criteria		Resu	ult Rationale	
Are any criteria	essential?	Yes	Total	4 of	7	
(Y/N)			Total			
If Yes are they p	passed?	No	Condition	Poo	r	

JNCC PH1 Classification	B4 Improved	grassland	Distinctiveness	Low
UKHABS Classification	Grassland – M	odified Grassland	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Grassland Hal	bitat Type (low s)	Area (Ha)	82.41
Limitations None			Polygon	GL1, GL2, GL3, GL4, GL5, GL6, GL7, GL8, GL12, GL14 GL16, GL20, GL23, GL22, GL24, GL25,
				GL26, GL27 O1, O3, O22, O23
Habitat Description	crested dog's perenne and a hordeaceus, dandelion Tal clover Trifoliu	tail Cynosurus cristate annual meadow-grass occasional creeping raxacum agg., meadum repens, lesser stitense, lesser trefoil	tus, abundant pe Poa annua, frequ buttercup Ranu ow foxtail Alope itchwort Stellaria	uding locally dominant rennial ryegrass Lolium uent soft brome Bromus unculus repens, rarely ecurus pratensis, white graminea, red clover m and cuckoo flower
Criterion Cond	lition Assessme	nt Criteria	Res	ult Rationale
Suggested enha- interventions to condition score		Grazing regime could be relaxed to allow a more diverse community to establish. Localised areas of bare ground could be created using hand tools.		

Table D.2: Other neutral grassland

· ·	Distinctiver	ness M	ledium			
grassland						
Crossland Other neutral	Strategic	L	ocation ecologically			
	Significanc	e de	esirable but not in			
grassianu		lo	cal strategy			
Grassland Habitat Type (medium,	Area (Ha)	2	90			
high & very high distinctiveness)		3.	.60			
None	Polygon		L17, GL18, GL31,			
TVOTIC		G	GL21, GL29, GL32			
Species included perennial ryegrass,			, pineapple weed Matricaria discoidea,			
red campion Silene dioica, herb-robert Geranium robertianum, false oat-						
grass Arrhenatherum elatius, forget-me-not Myosotis sp., daisy Bellis						
perennis, creeping buttercup, cow's parsley Anthriscus sylvestris and red						
fescue Festuca rubra.						
Condition Assessment Criteria			Rationale			
appearance and composition of the ve						
ely matches characteristics of the spec	cific		Low doneity of			
grassland habitat type (see UKHab definition)			Low density of			
Iflowers, sedges and indicator species	for the	Fall	wildflowers and sedges			
	high & very high distinctiveness) None Species included perennial ryegrass red campion Silene dioica, herb-robe grass Arrhenatherum elatius, forget-perennis, creeping buttercup, cow's fescue Festuca rubra. Indition Assessment Criteria Reappearance and composition of the versely matches characteristics of the species sland habitat type (see UKHab definition)	Grassland — Other neutral grassland — Strategic Significance — Significance — Significance — Significance — Area (Ha) — Area (Ha) — Polygon — Poly	grassland Grassland – Other neutral grassland Grassland Habitat Type (medium, high & very high distinctiveness) None Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Polygon Grassland Habitat Type (medium, high & very high distinctiveness) Result Polygon Resul			

Varied sward

height.

Pass

easily visible throughout the sward.

mammals to live and breed.

2

Sward height is varied creating microclimates which

provide opportunities for insects, birds and small

JNCC PH Classifica	_		istinctivenes	s M	edium	
UKHABS Classification		Grassland – Other neutral	Strategic Significance		Location ecologically desirable but not in local strategy	
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	rea (Ha)	3.80		
Limitation	ıs	None	olygon	GL17, GL18, GL31, GL21, GL29, GL32		
Habitat Description		Species included perennial ryegrass, pineapple weed <i>Matricaria discoidea</i> , red campion <i>Silene dioica</i> , herb-robert <i>Geranium robertianum</i> , false oatgrass <i>Arrhenatherum elatius</i> , forget-me-not <i>Myosotis</i> sp., daisy <i>Bellis perennis</i> , creeping buttercup, cow's parsley <i>Anthriscus sylvestris</i> and red fescue <i>Festuca rubra</i> .				
Criterion	Cond	dition Assessment Criteria	Re	sult	Rationale	
3		er of bare ground between 1% and 5%, in ised areas.	ncluding Fa	il	Bare ground less than 1%	
4		er of bracken less than 20% and cover of uding bramble) less than 5%.	scrub	ISS	No scrub or bracken noted	
5	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition and physical damage accounts for less than 5% of total area.			ISS	No invasive non- native species present.	

JNCC PH1 Classificati		Neutral semi-im	nproved		Distinctive	ness	ness Medium	
UKHABS Classificati		sland – Other ne land	eutral		Strategic Significance			n ecologically le but not in rategy
Condition Sheet		sland Habitat Ty & very high disti	. `	·	Area (Ha)		3.80	
Limitations	None				Polygon			GL18, GL31, GL29, GL32
Habitat Descriptior	ies included per ampion <i>Silene</i> of <i>Arrhenatherum</i> anis, creeping bu e <i>Festuca rubra</i>	dioica, her n elatius, f uttercup, d	b-robe orget-r	rt <i>Geraniun</i> ne-not <i>Myo</i>	n robei sotis s	<i>rtianum</i> , p., daisy	false oat- y <i>Belli</i> s	
Criterion	Condition A	ssessment Crite	eria			Resu	It Ratio	onale
6	There are g	reater than 9 sp	pecies pe	r metre	squared.	Fail	Low	species rsity
Are any cri	tial? Yes		Total		3 of 6			
If Yes are t	If Yes are they passed?			Cond	ition	Poor		
Suggested intervention condition s	ve comm	Grazing regime could be relaxed to allow a more diverse community to establish. Localised areas of bare ground could be created using hand tools.						

Table D.3: Tall Ruderal (GMH6)

JNCC PH1 C3.1 Tall ruderal Classification A3.2 Coniferous scattered trees		Distinctiveness		Medium		
UKHABS Classifica			Significance i		Within area formally identified in local strategy	
Condition Sheet	high & very high distinctiveness)		(Ha) 0.04			
Limitation Habitat	S	None Tall ruderal vegetation with Scot's p	Polygon		GMH6 unted for in Urban Tree	
Description						
Criterion	Cond	ition Assessment Criteria		Resul	Rationale	
1	The appearance and composition of the vegetation closely matches characteristics of the specific grassland habitat type (see UKHab definition). Wildflowers, sedges and indicator species for the specific grassland habitat type are very clearly and easily visible throughout the sward.				Indicator species not present or clearly visible.	
2	provid	rd height is varied creating microclimates which ide opportunities for insects, birds and small mals to live and breed.			Varied sward height.	
3		r of bare ground between 1% and 5% sed areas.	o, including	Pass	Bare ground between 1% and 5%	

JNCC PH1 Classification		C3.1 Tall ruder	ral is scattered tree	S	Distinctiveness		Medium	
UKHABS Classification		Other neutral g	ırassland		Significance		Within area formally dentified in local strategy	
Condition Sheet			oitat Type (mediu h distinctivenes		Area (Ha) 0.		0.04	
Limitation	S	None			Polygon	(GMH6	
Habitat Description	on	Tall ruderal ve	al vegetation with Scot's pine, trees accounted				d for in Urban Tree	
Criterion	Cond	dition Assessment Criteria				Resul	Rationale	
4		r of bracken less ding bramble) le	s than 20% and ess than 5%.	covei	r of scrub	Fail	Cover of scrub more than 5%.	
5	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition and physical damage accounts for less than 5% of total area.				condition	Pass	No invasive non- native species present.	
Additiona	l Group	o (Non-acid type	s only)					
6	There	nere are greater than 9 species per metre squared.			e squared.	Fail	Low species diversity	
Are any c	Are any criteria essential? (Y/N)		Yes	Tot	al		3 of 6	

JNCC PH1 Classification	C3.1 Tall ruderal A3.2 Coniferous scattered trees			Distinctiven	iess	Med	dium
UKHABS Classification	Other neutral grassland			Strategic Significance		Within area formally identified in local strategy	
Condition Sheet	Grassland Habitat Type (medium, high & very high distinctiveness)			Area (Ha)		0.04	
Limitations	None			Polygon		GM	1H6
Habitat Description	Tall ruderal ve Helper	getation with Sco	ot's p	ine, trees ac	count	ed fo	or in Urban Tree
Criterion Cond	ition Assessmer	nt Criteria			Resi	ult	Rationale
If Yes are they p	If Yes are they passed?			Condition			Poor
Suggested enha- interventions to condition score	Diversify specient nettle and bran		rough plantir	ng and	d cor	ntrol of common	

Table D.4: Modified grassland

mammals to live and breed.

grassland area.

grassland area.

Some scattered scrub (including bramble) may be

Physical damage evident in less than 5% of total

present, but scrub accounts for less than 20% of total

3

4

JNCC PH Classifica		B6 Poor semi-improved grassland	i-improved grassland Distinctivenes		.ow	
UKHABS Classification		Grassland – Modified Grassland	Significance		ocation ecologically lesirable but not in ocal strategy	
Condition Sheet)		5.17			
Limitation	S	None	Polygon	(GL19, GL28	
Habitat Description	งท	Species included locally dominant or dock and ground elder <i>Aegopodium</i> creeping buttercup and dandelion ar ground ivy <i>Glechoma hederacea</i> , jacampion, common hogweed and bar	podagraria, nd locally rar ck by the he	occasio e speai dge <i>Alli</i>	onal common nettle, thistle, cleavers, aria petiolata, red	
Criterion	Cond	lition Assessment Criteria		Result	Rationale	
1	There	There must be 6-8 species per m2.			Less than 6 species per m2.	
2	Sward height is varied creating microclimates which provide opportunities for insects, birds and small			Pass	Sward height was varied.	

No scrub present

Less than 5%

physical damage.

Pass

Pass

JNCC PH1 Classification B6 Poor semi		-improved grass	sland	Distinctiveness		Low		
UKHABS Classification		Grassland – M	lodified Grassla	nd	Strategic Significance		Location ecologicall desirable but not in local strategy	
Condition Sheet			Area (Ha) 5.17		5.17	5.17		
Limitation	S	None			Polygon		GL19	9, GL28
Habitat Description	n	dock and grou creeping butte ground ivy <i>Gle</i>	-	odium _l elion an cea, jac	podagraria, d locally rai k by the he	occas e spea	ional ar this <i>Iliaria</i>	
Criterion	Cond	ition Assessme	nt Criteria			Resu	ılt Ra	ationale
5		r of bare ground ling localised ar	d between 1% a eas.	nd 10%	o,	Fail		are ground less an 1%.
6	Cove	r of bracken les	s than 20%.			Pass	No	o bracken noted.
7	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981).					Pass	na	o invasive non- ative species resent.
Are any criteria essential? (Y/N)			Yes	Total	5 of 7			
If Yes are they passed?			No	Cond	ition	Poor		

JNCC PH1 Classification	B6 Poor semi	-improved grassland	Distinctivenes		ow
UKHABS Classification	Grassland – N	Strategic Significance	de	ocation ecologically esirable but not in cal strategy	
Condition Sheet	Grassland Hall distinctiveness	Area (Ha)	5.	17	
Limitations	None	Polygon	G	L19, GL28	
Habitat Description	dock and grou creeping butte ground ivy <i>Gle</i>	led locally dominant condender Aegopodium rcup and dandelion arechoma hederacea, jacomon hogweed and bar	podagraria, oc nd locally rare s ck by the hedge	casio pear e <i>Allia</i>	nal common nettle, thistle, cleavers, aria petiolata, red
Criterion Cond	Criterion Condition Assessment Criteria				Rationale
Suggested enha		Grazing regime could be relaxed to allow a more diverse community to establish. Localised areas of bare ground could be created using hand tools.			

Table D.5: Modified Grassland

	JNCC PH1 Classification B6 Poor semi-improved grassland Distinctives			_OW		
UKHABS Classification Grassland – Modified Grassland Strategic Significant		Significance		ocation ecologically desirable but not in ocal strategy		
Condition Sheet		Grassland Habitat Type (low distinctiveness)	Area (Ha)		0.10	
Limitation	S	None	Polygon	(GL34	
Habitat Grassland with dominant Yorkshire fog, and occasional rosebay willow here Description Sward was uniform with a low species diversity.						
Criterion	Cond	ition Assessment Criteria		Resul	Rationale	
1	There	e must be 6-8 species per m2.		Fail	Less than 6 species per m2	
2	provid	d height is varied creating microclimate de opportunities for insects, birds and s mals to live and breed.		Fail	Uniform Sward height	
3	Some scattered scrub (including bramble) may be present, but scrub accounts for less than 20% of total grassland area.				No scrub	
4	Physical damage evident in less than 5% of total grassland area.			Pass	No damage observed	
5		r of bare ground between 1% and 10% ding localised areas.),	Fail	Bare ground <1%	

JNCC PH1 Classification B6 Poor semi-i		i-improved grass	sland	Distinctiveness		Low					
UKHABS Classifica			Significance de		Location ecologically desirable but not in local strategy						
Condition Sheet		Grassland Hal	bitat Type (low s)		Area (Ha)		Area (Ha)		Area (Ha) 0.10		10
Limitation	S	None			Polygon		GL34				
			n dominant York iform with a low		O,	asiona	al r	osebay willow herb.			
Criterion	Cond	ition Assessme	nt Criteria			Resu	ult	Rationale			
6	Cove	r of bracken les	s than 20%.			Pass		No bracken present			
7			of invasive non le 9 of WCA, 19		species	Pass	;	No INNS recorded			
Are any c	Are any criteria essential? (Y/N)			Total		4 of 7					
If Yes are	If Yes are they passed?			Yes Condition Poor							
Suggested enhancement interventions to improve condition score			Localised area tools.	s of ba	are ground o	could b	е (created using hand			

Table D.6: Other neutral grassland

JNCC PH Classifica		B5 Marshy grassland Distinctivene		ness M	ledium	
UKHABS Classification		Other neutral grassland	Strategic Significance		ocation ecologically esirable but not in ocal strategy	
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)		0.03	
Limitation	ns	None	Polygon G		MH5	
Habitat Description	on	Species include abundant hard rush <i>Juncus inflexus</i> , occasional great willowherb <i>Epilobium hirsutum</i> , lesser celandine <i>Ficaria verna</i> and creeping buttercup and locally rare dock <i>Rumex</i> sp., wavy bittercress <i>Cardamine flexuosa</i> , common nettle, and cleavers.				
Criterion	Cond	lition Assessment Criteria		Result	Rationale	
1	close grass Wildf speci	The appearance and composition of the vegetation closely matches characteristics of the specific grassland habitat type (see UKHab definition). Wildflowers, sedges and indicator species for the specific grassland habitat type are very clearly are easily visible throughout the sward.			Indicator species present throughout.	
2	provi	d height is varied creating microclimate opportunities for insects, birds and mals to live and breed.		Pass	Varied sward height.	

JNCC PH1 Classification B5 Marshy g		B5 Marshy grassland	Distinctiveness		Medium
UKHABS Classification			Significance		Location ecologically desirable but not in local strategy
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)		0.03
Limitation	S	None	Polygon		GMH5
Habitat Description	on	Species include abundant hard rush <i>Juncus inflexus</i> , occasional great willowherb <i>Epilobium hirsutum</i> , lesser celandine <i>Ficaria verna</i> and creep buttercup and locally rare dock <i>Rumex</i> sp., wavy bittercress <i>Cardamine flexuosa</i> , common nettle, and cleavers.			
Criterion	Cond	ition Assessment Criteria		Resu	Ilt Rationale
3		r of bare ground between 1% and 5%, sed areas.	including	Pass	Bare ground cover between 1 and 5%.
4		r of bracken less than 20% and cover ding bramble) less than 5%.	of scrub	Pass	Minimal areas of bracken and scrub.
5	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition and physical damage accounts for less than 5% of total area.			Pass	No invasive non- native species present.
Additiona	l Group	o (Non-acid types only)			

	JNCC PH1 Classification B5 Marshy gra		ssland		Distinctiveness		Medium	
UKHABS Classification		Other neutral g	grassland		Significance		Location ecologically desirable but not in local strategy	
Condition Sheet			oitat Type (mediunh distinctiveness		Area (Ha) 0.		0.03	
Limitation	S	None			Polygon		GMH5	
Habitat willowherb Description buttercup a				less Run	er celandine nex sp., wav	Ficar	occasional great ia verna and creeping cress Cardamine	
Criterion	Cond	ition Assessmer	nt Criteria			Resu	It Rationale	
6	There	e are greater tha	n 9 species per	metr	e squared.	Fail	Low species diversity	
Are any c	riteria	essential?	Yes	Tot	al		5 of 6	
If Yes are	If Yes are they passed?		No	Cor	ndition		Moderate	
Suggested enhancement interventions to improve condition score			Diversify speciently nettle.	es th	rough plantir	ng and	control of common	

Table D.7: Other neutral grassland

JNCC PH	CC PH1 C3.1 Tall ruderal Distinctiver		Distinctiver	iess N	/ledium		
UKHABS Classifica		Other neutral grassland	Strategic Sutral grassland Significance		Significance desirable		ocation ecologically lesirable but not in ocal strategy
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)	C).38		
Limitation	S	None	Polygon	C	GMH4		
Habitat Tall ruderal vegetation with species including free nettle with scattered trees.		quent r	ush and common				
Criterion	Cond	dition Assessment Criteria		Result	Rationale		
1	close grass Wildfl speci	The appearance and composition of the vegetation closely matches characteristics of the specific grassland habitat type (see UKHab definition). Vildflowers, sedges and indicator species for the pecific grassland habitat type are very clearly and easily visible throughout the sward.		Fail	Homogenous stand of common nettle		
2	Sward height is varied creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.		Pass	Sward height was varied.			
3		r of bare ground between 1% and 5% sed areas.	6, including	Pass	Bare ground between 1% and 5%.		

JNCC PH Classifica	C3.1 Tall ruderal		Me	edium				
UKHABS Classifica	UKHABS Classification Other neutral grassland Strategic Significance		Significance de		Location ecologically desirable but not in local strategy			
Condition Sheet			oitat Type (mediu yh distinctiveness		Area (Ha)		0.3	38
Limitation	S	None			Polygon		GI	MH4
Habitat Description	on	Tall ruderal veg		n with species including frequent rees.			nt rush and common	
Criterion	Condition Assessment Criteria R			Resu	ılt	Rationale		
4		Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.		r of scrub	ub Pass		Minimal cover of scrub and bracken.	
5	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition and physical damage accounts for less than 5% of total area.		Fail		Species indicative of sub-optimal condition and physical damage accounts for more than 5%.			
Additiona	Additional Group (Non-acid types only)							
6	There	There are greater than 9 species per metre squared.			Low species diversity			
Are any c	riteria	essential?	Yes	Tot	al			3 of 6

JNCC PH1 Classification	C3.1 Tall ruder	al		Distinctiver	ness	Me	edium
UKHABS Classification	Other neutral g	neutral grassland		Strategic Significance		de	esirable but not in cal strategy
Condition Sheet		itat Type (mediu h distinctiveness			0.3	38	
Limitations	Limitations None			Polygon		GI	MH4
Habitat Description	Tall ruderal veo	•	cies	including fre	equen	t ru	sh and common
Criterion Cond	ition Assessmer	nt Criteria			Resi	ult	Rationale
If Yes are they passed?		No	Coi	Condition			Poor
Suggested enhancement interventions to improve condition score			ooac				ontrol of common ninery to reduce

Table D.8: Mixed scrub

JNCC PH1 Classification	A2.1 Dense scrub	Distinctiven ess	Medium
UKHABS Classification	Heathland and shrub – Mixed scrub	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Scrub	Area	0.56

Limitations	None	Polygon	S5, S13, S10		
Habitat Description	Dense scrub with abundant bramble <i>Rubus fruticosus</i> , frequent hawthorn <i>Crataegus monogyna</i> , occasional blackthorn <i>Prunus spinosa</i> , elder <i>Sambucus nigra</i> and silver birch <i>Betula pendula</i> .				
Criterion	Condition Assessment Criteria	Result	Rationale		
1	Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box, which can be up to 100% cover).	Pass	Range of species noted with no species more than 75% of the cover.		
2	There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.	Pass	Varied age range noted.		
3	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 or undesirable species noted.		

4	The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s).	Pass	Well-developed edge noted.
5	There are clearings, glades or rides present within the scrub, providing sheltered edges.	Fail	Scrub dense with no clearings, glades or rides.
Are any criteria non- negotiable? (Y/N)	N	Total	4 of 5
If Yes are they passed?	n/a	Condition	Moderate
Suggested	Introduce a rotational cutting reg	jime to create o	clearings, glades or
enhancement	rides within the scrub.		
interventions to			
improve condition			
score			

Table D.9: Bramble scrub

JNCC PH1 Classification	A2.1 Dense scrub	Distinctiven ess	Medium
UKHABS Classification	Heathland and shrub – Bramble scrub	Strategic Significance	Location ecologically desirable but not in local strategy

JNCC PH1 Classification	A2.1 Dense scrub	Distinctiven ess	Medium
Condition Sheet	No assessment required – condition N/A	Area	0.54
Limitations	None	Polygon	S16
Habitat Description	Scrub dominated by bramble.		

Table D.10: Mixed scrub

JNCC PH1 Classification	A2.1 Dense scrub	Distinctiven ess	Medium
UKHABS Classification	Heathland and shrub – Mixed scrub	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Scrub	Area	0.11
Limitations	None	Polygon	S8
Habitat Description	Dense scrub present to the north the broadleaved woodland.	n of the Site wit	hin the understorey of
Criterion	Condition Assessment Criteria	Result	Rationale
1	Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common	Pass	Range of species noted with no species more than 75% of the cover.

2	juniper, sea buckthorn or box, which can be up to 100% cover). There is a good age range –	Pass	Varied age range
	all of the following are present: seedlings, young shrubs and mature shrubs.	1 435	noted.
3	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 or undesirable species noted.
4	The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s).	Pass	Well-developed edge noted.
5	There are clearings, glades or rides present within the scrub, providing sheltered edges.	Pass	Clearings noted within the scrub.
Are any criteria non- negotiable? (Y/N)	N	Total	5 of 5
If Yes are they passed?	n/a	Condition	Good

ndition should
permit a
sure no

Table D.11: Mixed scrub

JNCC PH1 Classification	A2.1 Dense scrub	Distinctiven ess	Medium	
UKHABS Classification	Heathland and shrub – Mixed scrub	Strategic Significance	Location ecologically desirable but not in local strategy	
Condition Sheet	Scrub	Area	0.08	
Limitations	None	Polygon	S9, S15	
Habitat Description	Dense scrub was scattered throughout the Site and consisted main of hawthorn and bramble. Other species included blackthorn and crose <i>Rosa canina</i> .			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box,	Pass	Range of species noted with no species more than 75% of the cover.	

	which can be up to 100% cover).		
2	There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.	Fail	Not all ages were noted.
3	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.	Fail	INNS or undesirable species noted.
4	The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s).	Fail	A well-developed edge was absent.
5	There are clearings, glades or rides present within the scrub, providing sheltered edges.	Fail	No clearings were noted within the scrub.
Are any criteria non- negotiable? (Y/N)	N	Total	1 of 5
If Yes are they passed?	n/a	Condition	Poor

Suggested
enhancement
interventions to
improve condition
score

Selective clearance of some of the scrub will allow more growth, increasing the diversity of the ages present and will also create clearings within the scrub. Any INNS and undesirable species should be controlled and the edge of the scrub should be increased and left to grow longer.

Table D.12: Mixed scrub

JNCC PH1 Classification	A2.2 Scrub (scattered)	Distinctiven ess	Medium		
UKHABS Classification	Heathland and shrub – Mixed scrub	Strategic Significance	Location ecologically desirable but not in local strategy		
Condition Sheet	Scrub	Area	0.07		
Limitations	None Polygon		S11		
Habitat Description	Scattered scrub was found within the centre of field O4 and was dominated by hawthorn.				
Criterion	Condition Assessment Criteria	Result	Rationale		
1	Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box,	Pass	Range of species noted with no species more than 75% of the cover.		

	which can be up to 100% cover).		
2	There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.	Fail	Not all ages were noted.
3	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.	Fail	INNS or undesirable species noted.
4	The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s).	Fail	A well-developed edge was absent.
5	There are clearings, glades or rides present within the scrub, providing sheltered edges.	Fail	No clearings were noted within the scrub.
Are any criteria non- negotiable? (Y/N)	N	Total	1 of 5
If Yes are they passed?	n/a	Condition	Poor

Suggested
enhancement
interventions to
improve condition
score

Selective clearance of some of the scrub will allow more growth, increasing the diversity of the ages present and will also create clearings within the scrub. The edge of the scrub should be increased and left to grow longer.

Table D.13: Other woodland; broadleaved

JNCC PH Classifica		A1.1 Semi-natural broadleaved woodland			nctiveness	Moderate
	Classification		Woodland and forest – Other		egic ificance	Within area formally identified in local strategy
Condition	Sheet	Woo	dland	Area	(Ha)	0.17
Limitation	ns Non		е	Poly	gon	W7
Habitat D	Semi-natural broadleaved woodland rosebay willow herb Chamaenerion a Hyacinthoides non-scripta, with occasional rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb Chamaenerion and the semi-natural broadleaved woodland rosebay willow herb chamaenerion and the semi-natural broadleaved woodland rosebay willow herb will be semi-natural broadleaved woodland rosebay will be semi-natural broadleaved willow will be semi-natural bro			angustifolium	and bluebell	
Criterion	Indicator		Condition Description Score		Rationale	
1	Age distribution trees	ı of	Two age classes present		Moderate (2 points)	Two classes present
2	Wild, dome and feral herbivore damage	estic	ic Evidence of significant browsing pressure is present in 40% or less of whole woodland		Moderate (2 points)	Browsing pressure widely evident

3	Invasive plant species	Rhododendron or laurel not present, other invasive species > 10% cover	Poor (1 point)	Sycamore dominant
4	Number of native tree species	None to two native tree or shrub species across woodland parcel	Poor (1 point)	As above
5	Cover of native tree and shrub species	< 50% of canopy trees and <50% of understory shrubs are native	Poor (1 point)	As above
6	Open space within woodland	10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply	Good (3 points)	Low levels of open space
7	Woodland regeneration	One or two classes only present in woodland	Moderate (2 points)	Low regeneration
8	Tree health	Tree mortality less than 10%, no pests or diseases and no crown dieback	Good (3 points)	High tree health
9	Vegetation and ground flora	Recognisable NVC plant community present	Moderate (2 points)	Some woodland ground flora
10	Woodland vertical structure	Two storeys across all survey plots	Moderate (2 points)	Moderate vertical structure

11	Veteran trees	No veteran trees present in woodland		Poor (1 point)	None present
12	Amount of deadwood	50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps		Good (3 points)	Large amount of deadwood
13	Woodland disturbance	Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground		Moderate (2 points)	Damaged ground
Are any criteria non- negotiable? (Y/N)		N	Total	25 of 39	
If Yes are they passed?		n/a Condition Poor		Poor	
Suggested enhancement interventions to improve condition score			Planting of native trees and shrubs. Planting of a woodland ground flora seed mix to develop diversity within the ground layer. Creation of veteran trees and deadwood habitats.		

Table D.14: Other woodland; broadleaved

JNCC PH1 Classification	A1.1 Semi-natural broadleaved woodland	Distinctiveness	Moderate
UKHABS Classification	Woodland and forest – Other woodland; broadleaved	Strategic Significance	Within area formally identified in local strategy
Condition Sheet	Woodland	Area (Ha)	2.00

Limitations None		Non		, 0	W3, W4 W5, W6, W8	
W3 – Semi-natural broadleaved woodland noted to the Oaklands Farm. This area of woodland was noted to with a slow flowing ditch running through the centre. W4 – Semi-natural broadleaved woodland present not boundary of Oaklands Farm. W5, W6, W8 – Semi-natural broadleaved woodland processional Scot's pine Pinus sylvestris, birch and has occasional Scot's pine Pinus sylvestris, birch and birch pinus sylvestris, birch and birch pinus sylvestris, birch and birch pinus sylvestris, birch pinus sylvestris, birch pinus sylvestris, birch pinus sylvestris, birch				to be very dense re. t near the south-east ad patches within ash and beech,		
Criterion	Indicator		Condition Description	Score	Rationale	
1	Age distribution of trees		Two age classes present	Moderate (2 points)	Two age classes	
2	Wild, domestic and feral herbivore damage		No significant browsing damage evident in woodland	Good (3 points)	No browsing evident	
3	Invasive plant species		Rhododendron or laurel present, or other invasive species >10% cover	Poor (1 point)	Sycamore >10% cover.	
4	Number of native tree species		Five or more native tree or shrub species found across woodland parcel	Good (3 points)	Native species found across parcels	

5	Cover of native tree and shrub species	50-80% of canopy trees and 50-80% of understory shrubs are native	Moderate (2 points)	Sycamore present but mainly native species
6	Open space within woodland	10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply	Good (3 points)	Some areas of temporary open space
7	Woodland regeneration	One or two classes only present in woodland	Moderate (2 points)	Some regeneration
8	Tree health	Tree mortality less than 10%, no pests or diseases and no crown dieback	Good (3 points)	Only minor amount of tree mortality
9	Vegetation and ground flora	No recognisable NVC community	Poor (1 point)	Poor ground flora assemblage
10	Woodland vertical structure	Two storeys across all survey plots	Moderate (2 points)	Only two storeys
11	Veteran trees	One veteran tree per hectare	Moderate (2 points)	Few veteran trees
12	Amount of deadwood	Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large	Moderate (2 points)	Some deadwood

		dead	branches/ stems and ps.		
13	Woodland disturbance	nutrio	e than 1 hectare of ent enrichment and/or e than 20% of woodland has damaged ground	Poor (1 point)	Damaged ground in woodland
Are any criteria non- negotiable? (Y/N)		N	Total	27 of 39	
If Yes are they passed?		n/a	Condition	Moderate	
Suggested enhancement interventions to improve condition score			Planting of a woodland ground flora seed mix to develop diversity within the ground layer.		

Table D.15: Ponds

JNCC PH1 Classification	G1 Standing water	Distinctiveness	Medium
UKHABS Classification	Lakes – Ponds (non-priority habitat)	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Pond	Area (Ha)	0.08
Limitations	None	Polygon	P3, P6
Habitat Description	P3 – Pond located within the north-east of Oaklands far within an area of scrub.		

	P6 – Large pond surrounded by woodland in the north of the accessible Drakelow survey area. The pond had a 100% duckweed cover and was partially shaded around the edges.			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	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.	Fail	Water showing signs indicative of poor water quality.	
2	There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.	Pass	Surrounded by semi-natural broadleaved woodland	
3	Less than 10% of the pond is covered with duckweed or filamentous algae.	Fail	100% duckweed cover	
4	The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.	Pass	Not artificially connected	
5	Pond water levels should be able to fluctuate naturally throughout the year. No	Pass	No obvious dams, pumps or pipework was visible.	

	obvious dams, pumps or pipework.			
6	There is an absence of non- native plant and animal species.	Pass	No INNS noted.	
7	The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.	Pass	No fish noted within the pond.	
Additional criter	Additional criteria – only applicable to non-woodland ponds:			
8	In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds)3, should cover at least 50% of the pond area that is less than 3 m deep.	N/A	Woodland pond	
9	The surface of non- woodland ponds is no more than 50% shaded by woody bankside species.	N/A	Woodland pond	
Are any criteria non-negotiable?	N	Total	5 of 7	

If Yes are they passed?	n/a	Condition	Moderate
Suggested enhancement interventions to improve condition score	Reduce duckweed cover to in	nprove water qual	ity.

Table D.16: Ponds

JNCC PH1 Classification	G1 Standing water	Distinctiveness	Medium
UKHABS Classification	Lakes – Ponds (non-priority habitat)	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Pond	Area (Ha)	0.03
Limitations	Due to the presence of thick scrub,P4 couldn't be fully accessed to survey. Best judgement was used within the context of the Site and the condition of the surrounding ponds.	Polygon	P4, P5
Habitat Description	P4 – Small pond surrounded by dense scrub, located along the south-east boundary of Oaklands farm.		

	P5 – Small pond located within field boundary in south-east corner of Oaklands farm.			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	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.	Fail	Water indicative of poor water quality.	
2	There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.	Pass	Semi-natural habitat present at least 10m from the edge.	
3	Less than 10% of the pond is covered with duckweed or filamentous algae.	Fail	High duckweed cover	
4	The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.	Pass	None noted	
5	Pond water levels should be able to fluctuate naturally throughout the year. No	Fail	Water levels do not appear to fluctuate, view of P4 constrained as above.	

	obvious dams, pumps or pipework.		
6	There is an absence of non- native plant and animal species.	Pass	None noted
7	The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.	Fail	Fish present
Additional criter	ria – only applicable to non-woo	odland ponds:	
8	In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds)3, should cover at least 50% of the pond area that is less than 3 m deep.	Fail	Less than 50% of the pond area that is less than 3m deep covered by plants.
9	The surface of non- woodland ponds is no more than 50% shaded by woody bankside species.	Fail	More than 50% shaded by woody bankside species.
Are any criteria non-negotiable?	N	Total	3 of 9

If Yes are	n/a	Condition	Poor	
they passed?				
Suggested	Allow a greater buffer of undisturbed semi-natural habitat to develop around			
enhancement	the pond, so that the surrounding habitat can intercept run off and reduce			
interventions	inputs of nutrient enrichment. Selectively thin some of the woody bankside			
to improve	species to allow more light to reach the pond, which in turn will allow more			
condition	aquatic plants to grow along the edge of the pond. Control any INNS and fish			
score	populations.			

Table D.17: Urban

JNCC PH1 Classification	J4 Bare ground	Distinctiveness	Low	
UKHABS Classification	Urban – Vacant / derelict land / bare ground	Strategic Significance	Area/compensation not in local strategy/ no local strategy	
Condition Sheet	Urban	Area (Ha)	0.51	
Limitations	None	Polygon	U2, U4	
Habitat Description	U2 – Bare soil in the west of Oaklands Farm. U4 – Bare soil within fields at Park Farm.			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	Vegetation structure is varied, providing opportunities for insects, birds and bats to live and breed. A single ecotone (i.e. scrub, grassland, herbs)	Fail	None present	

	should not account for more		
	than 80% of the total habitat		
	area.		
2	There is a diverse range of	Fail	Bare ground with no
	flowering plant species,		flowering plant
	providing nectar sources for		species.
	insects. These species may be		
	either native, or non-native but		
	beneficial to wildlife.		
	NB - To achieve GOOD		
	condition, criterion 2 must		
	be satisfied by native		
	species only (rather than		
	non-natives beneficial to		
	wildlife). Note that		
	Biodiverse green roofs are		
	exempt from this		
	requirement, and can		
	include non-native sedums,		
	as set out in footnote 1.		
3	Invasive non-native species	Pass	No INNS present
	(Schedule 9 of WCA) cover		
	less than 5% of total vegetated		
	area.		
	NB – To achieve GOOD		
	condition, criterion 3 must		
	be satisfied by a complete		
	absence of invasive non-		

	native species (rather than <5% cover).		
Are any criteria non- negotiable? (Y/N)	Has to meet the requirements for good condition within criterion 2 and 3	Total	1 of 3
If Yes are they passed?	n/a	Condition	Poor
Suggested enhancement interventions to improve condition score	Create structure within the groun invertebrates as well as planting	•	•

Table D.18: Urban

JNCC PH1 Classification	J4 Bare ground	Distinctiveness	Low
UKHABS Classification	Urban – Vacant / derelict land / bare ground	Strategic Significance	Area/compensation not in local strategy/ no local strategy
Condition Sheet	Urban	Area (Ha)	0.50
Limitations	None	Polygon	U3
Habitat Description	Area of bare ground within Drakelow with scatted rosebay willowherb, sycamore, fringed willowherb <i>Epilobium ciliatum</i> and oak.		
Criterion	Condition Assessment Criteria	Result	Rationale

1	Vegetation structure is varied, providing opportunities for insects, birds and bats to live and breed. A single ecotone (i.e. scrub, grassland, herbs) should not account for more than 80% of the total habitat	Pass	Herbs and trees present creating structure
2	There is a diverse range of flowering plant species, providing nectar sources for insects. These species may be either native, or non-native but beneficial to wildlife. NB – To achieve GOOD condition, criterion 2 must be satisfied by native species only (rather than non-natives beneficial to wildlife). Note that Biodiverse green roofs are exempt from this requirement, and can include non-native sedums, as set out in footnote 1.	Fail	Few plant species
3	Invasive non-native species (Schedule 9 of WCA) cover	Pass	No INNS present

	less than 5% of total vegetated area. NB – To achieve GOOD condition, criterion 3 must be satisfied by a complete absence of invasive nonnative species (rather than <5% cover).		
Are any criteria non- negotiable? (Y/N)	Has to meet the requirements for good condition within criterion 2 and 3	Total	2 of 3
If Yes are they passed?	n/a	Condition	Moderate
Suggested enhancement interventions to improve condition score	Planting of native flowering plant	t species.	

Table D.19: Non-cereal crops

JNCC PH1 Classification	J1. Cultivated / disturbed land – arable	Distinctivene ss	Low
UKHAB Classification		Strategic	Location
		Significance	ecologically
	Cropland – Non-cereal crops		desirable but
			not in local
			strategy

JNCC PH1 Classification	J1. Cultivated / disturbed land – arable	Distinctivene ss	Low
Condition Sheet	No assessment required – condition N/A	Area	91.14
Limitations	None	Polygon	Fields: F3, O4, O6, O7, O8, O11, O13, O14, O15, O16, O17
Habitat Description	Cultivated arable land.		

Table D.20: Developed land; sealed surface

JNCC PH1 Classification	Hard standing / Buildings / Other habitat	Distinctivene ss	Very Low	
UKHAB Classification	Developed land; sealed surface	Strategic Significance	Area/compens ation not in local strategy/ no local strategy	
Condition Sheet	No assessment required – condition N/A	Area	4.59	
Limitations	None	Polygon	N/A	
Habitat Description	Hard standing and buildings as well as chicken coup within Park Farm.			

Table D.21: Urban Trees

JNCC PH1 Classification	A3.1 Broadleaved scattered trees	Distinctiveness	Moderate		
UKHAB Classification	Urban tree	Strategic Significance		Within area formally identified in local strategy	
Condition Sheet	Urban trees	Area (ha)	0.38		
Limitations		Tree reference	Arcus trees ²¹ : T1, T2, T9, T29		
Habitat Description	Scattered broadleaved trees within Oaklands, comprising 5 large trees mapped by Arcus T1 (ash), T2 (oak), T3 (ash) T9 (oak), and T29 (oak). Area calculated using the Urban Tree Helper within the Defra 3.1 Metric.				
Criterion	Condition Assessment Criteria		Result	Rationale	
1	The tree is a native species(or more than 70% within the block are native species).		Pass	Native species	
2	The tree canopy is predominantly continuous, with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide (individual trees automatically pass this criterion).		Fail	Scattered trees with gaps between	

²¹ Reference numbers for these trees are consistent with the original Arcus mapping within **ES Volume 3**, **Appendix 6.3 Preliminary Ecological Appraisal (Arcus, 2020)**, and as such does not correspond with the arboricultural reference numbers on the TRR.

3		ature or veteran or more than 50% ck are mature or veteran).	Pass	Large, mature trees
4	on tree health vandalism or regular prunir	or no evidence of an adverse impact by anthropogenic activities such as herbicide use. There is no current and regime so the trees retain >75% of appy for their age range and height.	Pass	-
5		s for birds, mammals and insects are presence of deadwood, cavities, ivy or	Pass	Present with Bat Roosting Suitability features present also
6		% of the tree canopy area is egetation beneath.	Fail	Arable cultivated land beneath
Are any criteria essential? (Y/N) If Yes are they passed?		No N/A	Condition	Moderate

Table D.22: Urban Trees

JNCC PH1 Classification	A3.1 Broadleaved scattered trees	Distinctiveness	Moderate
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UKHAB Classification	Urban tree	Strategic Significance	Within area identified in strategy	•
Condition Sheet	Urban trees	Area (ha)	0.18	
Limitations		Tree reference	Arcus ²¹ : T2 T30 LUC: T39,	
Habitat Description	Medium sized broadleaved trees scattered across the Site, with oak dominant and frequent ash, mainly situated within arable fields. Area calculated using the Urban Tree Helper within the Defra 3.1 Metric.			·ea
Criterion	Condition Assessment Criteria		Result	Rationale
1	The tree is a native species(or more within the block are native species).		Pass	Native species
2	The tree canopy is predominantly continuous, with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide (individual trees automatically pass this criterion).		Fail	Scattered trees with gaps between
3	The tree is mature or veteran or more than 50% within the block are mature or veteran).		Fail	Less than 50% mature or veteran
4	There is little or no evidence of an a on tree health by anthropogenic activandalism or herbicide use. There is	ivities such as	Pass	None noted

	ng regime so the trees retain >75% of opy for their age range and height.		
5	s for birds, mammals and insects are presence of deadwood, cavities, ivy or	Pass	Cavities present with most having Bat Roosting Suitability
6	% of the tree canopy area is egetation beneath.	Fail	Arable cultivated land beneath
Are any criteria (Y/N) If Yes are they p	No N/A	Condition	Moderate

Table D.23: Urban Trees

JNCC PH1 Classification	A3.2 Coniferous scattered trees	Distinctiveness	Moderate
UKHAB Classification	Urban tree	Strategic Significance	Within area formally identified in local strategy
Condition Sheet	Urban trees	Area (ha)	0.22

Limitations	Location	G44	
Habitat Description	Coniferous scattered trees located within GMH6 in C by Scot's pine. Area calculated using Urban Tree He Metric.		
Criterion	Condition Assessment Criteria	Result	Rationale
1	The tree is a native species(or more than 70% within the block are native species).	Pass	Native species
2	The tree canopy is predominantly continuous, with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide (individual trees automatically pass this criterion).	Pass	Some gaps in canopy cover
3	The tree is mature or veteran or more than 50% within the block are mature or veteran).	Fail	Few mature trees
4	There is little or no evidence of an adverse impact on tree health by anthropogenic activities such as vandalism or herbicide use. There is no current regular pruning regime so the trees retain >75% of expected canopy for their age range and height.	Pass	
5	Micro-habitats for birds, mammals and insects are present e.g. presence of deadwood, cavities, ivy or loose bark	Fail	-
6	More than 20% of the tree canopy area is oversailing vegetation beneath.	Pass	Ruderal vegetation beneath

Are any criteria essential? (Y/N)	No	Condition	Moderate
If Yes are they passed?	N/A		

Hedgerow Habitats

Table D.24: Line of Trees

JNCC PH1 Classification	Tree Line	Distinctive	ness	Low	
UKHABS Classification	Line of trees	Strategic Significand	Strategic Significance		
Condition Sheet	Line of trees	Length (km)		0.53	
Limitations	None	Line		G5, G7, G8, G1, G2, G3, G4	
Habitat	G5, G7, G8 dominated by mature horse chestnut Aesculus hippocastanum				
Description	trees. G1, G2, G3, G4 dominated by mature lime Tilia x europaea trees				
Criterion	Condition Assessment Criteria	Result	Rationale		
1	More than 70% of trees are native species.	Pass	-		

3	individual gar	0% of total area and no being >5 m wide. or more mature or veteran	Fail Pass	continuous -
4	vegetated str	ndisturbed naturally ip of at least 6 m on both ect the line of trees from other anthropogenic	Fail	Tree lines adajcent to road.
5	condition (exc valuable for v evidence of a health by dar	of the trees are in a healthy cluding veteran features vildlife). There is little or no in adverse impact on tree mage from livestock or wild its or diseases, or human	Pass	-
Are any criteria non- negotiable? (Y/N)		No	Total	3 of 5
If Yes are they passed?		n/a	Condition	Moderate

Table D.25: Native hedgerow

JNCC PH1 Classification	J2.1.2 Intact hedge (species-poor)	Distinctiveness	Low	
UKHABS Classification	Native Hedgerow	Strategic Significance	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	0.16	
Limitations	None	Line	H28, H48	
Habitat Description	Abundant hawthorn <i>Crataegus monogyna</i> and blackthorn <i>Prunus spinosa</i> . Ground flora comprised abundant common nettle with rarely dock, hogweed, white dead-nettle <i>Lamium album</i> and red dead-nettle <i>Lamium purpureum</i> and bramble <i>Rubus fruticosus</i> .			
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Pass	-
A2. Width	>1.5 m average along length		Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Fail	Leggy
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m		Pass	-
C1. Undisturbed ground and	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and		Fail	-

perennial vegetation	Is present on	one side of the hedge (at least)		
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Pass	Common nettle and cleavers present but <20%
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage		nedgerow or undisturbed ground is free aused by human activities	Pass	-
Are any criteria essential? (Y/N)		No	Condition	Good
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		Underplant hedgerow or improve cutting	ng manageme	ent.

Table D.26: Native hedgerow

JNCC PH1	J2.1.2 Intact hedge (species-poor)	Distinctiveness	Moderate
Classification	G1 Standing water	Distilletiveriess	Moderate

UKHABS Classification	Native Hedgerow Strategic Significance		Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	0.104	
Limitations	None	Line	H25, G66	
Habitat Description	Hedgerow dominated by either blackthorn or hawthorn <i>Crataegus mongyna</i> with occasional dog rose <i>Rosa canina</i> and locally rare hornbeam <i>Carpinus betulus</i> . Ground flora comprised abundant common nettle with rarely dock, hogweed, white dead-nettle and red dead-nettle. Adjacent ditches accounted for in rivers units.			Carpinus ely dock,
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length	Pass	-	
A2. Width	>1.5 m average along length	Pass	-	
B1. Gap – hedge base	Gap between ground and base of carefor >90% of length (unless 'line of tre	Fail	-	
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m		Pass	-
C1. Undisturbed ground and perennial vegetation	herbaceous vegetation for >90% of Measured from outer edge of hedge	width of undisturbed ground with perennial aceous vegetation for >90% of length: sured from outer edge of hedgerow; and esent on one side of the hedge (at least)		-

Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	-
>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Pass	-
essential?	No	Condition	Good
assed?	N/A		
	Underplant hedgerow or improve cutting management. Control species indicative of enrichment. Ditch could be restored and enhanced.		
	soils dominate undisturbed gree of invasive >90% of the harmonic of the harmon	soils dominate <20% cover of the area of undisturbed ground. >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species >90% of the hedgerow or undisturbed ground is free of damage caused by human activities essential? No assed? N/A Underplant hedgerow or improve cutting	soils dominate <20% cover of the area of undisturbed ground. >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species >90% of the hedgerow or undisturbed ground is free of damage caused by human activities Pass Pass Condition assed? N/A Underplant hedgerow or improve cutting management mprove Control species indicative of enrichment. Ditch could

Table D.27: Native hedgerow

JNCC PH1 Classification	J2.1.2 Intact hedge (species-poor)	Distinctiveness	Low
UKHABS Classification	Native Hedgerow	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Hedgerow	Length (km)	0.42
Limitations	None	Line	H1, H2

Habitat Description	Hedgerow dominated by blackthorn. Ground flora comprised abundant common nettle with rarely dock, hogweed, white dead-nettle and red deadnettle.			
Criterion	Condition Assessment Criteria	Result	Rationale	
A1. Height	>1.5 m average along length	Fail	-	
A2. Width	>1.5 m average along length	Fail	-	
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')	Fail	-	
B2. Gap – hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m	Fail	-	
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)	Pass	-	
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Fail	-	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species	Pass	-	
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities	Pass	-	

Are any criteria essential? (Y/N)	No	Condition	Poor
If Yes are they passed?	N/A		
Suggested enhancement interventions to improve condition score	Hedgerow could be allowed to grow wi Underplant hedgerow or improve cutting plant gaps in hedgerow. Control species enrichment.	g manageme	ent. In

Table D.28: Native hedgerow

JNCC PH1 Classification	J2.1.2 Intact hedge (species-poor)	Distinctiveness	Low		
UKHABS Classification	Native Hedgerow	Strategic Significance	Within area formally identified in local strategy		
Condition Sheet	Hedgerow	Length (km)	0.22		
Limitations	None	Line	H3, H42 west		
Habitat Description	Hedgerow dominated by blackthorn. Ground flora comprised abundant common nettle with rarely dock, hogweed, white dead-nettle and red deadnettle.				
Criterion	Condition Assessment Criteria	Result	Rationale		
A1. Height	>1.5 m average along length	Pass	-		
A2. Width	>1.5 m average along length	Pass	-		

B1. Gap – hedge base	•	ground and base of canopy <0.5 m	Fail	-
B2. Gap - hedge canopy continuity	Gaps make u gaps >5 m	Fail	-	
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)		Pass	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Pass	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Pass	ı
Are any criteria essential? (Y/N)		No	Condition	Moderate
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		Underplant hedgerow, infill planting		

Table D.29: Native hedgerow

JNCC PH1 Classification	J2.2.2 Defunct hedge (species-poor)	Distinctiveness Low		
UKHABS Classification	Native Hedgerow	Strategic Significance	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	0.42	
Limitations	None	Line	H66, H84, I	H72
Habitat	Dominated by blackthorn. Ground flo	ora comprised ab	undant comn	non nettle
Description	with rarely dock, hogweed, white dead-nettle and red dead-nettle.			
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Pass	-
A2. Width	>1.5 m average along length		Pass	-
B1. Gap – hedge base	Gap between ground and base of carefor >90% of length (unless 'line of tre	Fail	-	
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; gaps >5 m	Pass	-	
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)		Pass	-

C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Pass	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Pass	-
Are any criteria essential? (Y/N)		No	Condition	Good
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		Underplant hedgerow.		

Table D.30: Native species rich hedgerow

JNCC PH1 Classification	J2.1.1 Intact hedge (species-rich)	Distinctiveness	Moderate
UKHABS Classification	Native Species Rich Hedgerow	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Hedgerow	Length (km)	2.63

Limitations	None Line	No ref ²² , H6 H59, H68, H H70, H74, H north, H53,	H69, H71, H47, H41
Habitat Description	Species included blackthorn and hawthorn. Species punderstorey consisted of common ivy, dock, cow's particular and Sisymbrium officinale, petty spurge Euphorb nettle, spear thistle and Shepherd's purse Capsella be	irsley, with ra ia peplus, red	re hedge d dead
Criterion	Condition Assessment Criteria	Result	Rationale
A1. Height	>1.5 m average along length	Pass	-
A2. Width	>1.5 m average along length	Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')	Pass	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m	Pass	-
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)	Pass	-

²² H19 was identified as hedge with trees on Arcus Phase 1 map but an updated condition assessment was undertaken for intact species-rich hedgerow.

C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	-
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	1
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Fail	-
Are any criteria essential? (Y/N) If Yes are they passed?		No N/A	Condition	Good
Suggested enhancement interventions to improve condition score		Control species indicative of enrichmer and in plant cut through.	nt. Litter man	agement

Table D.31: Native species rich hedgerow

JNCC PH1 Classification	J2.1.1 Intact hedge (species-rich)	Distinctiveness	Moderate
UKHABS Classification	Native Species Rich Hedgerow	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Hedgerow	Length (km)	0.74
Limitations	None	Line	H45, H46, H47, H51, H50 north

Habitat Description	Species included blackthorn and hawthorn. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse.		
Criterion	Condition Assessment Criteria	Result	Rationale
A1. Height	>1.5 m average along length	Pass	-
A2. Width	>1.5 m average along length	Fail	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')	Pass	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m	Pass	-
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)	Pass	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Fail	-
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species	Pass	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities	Fail	-

Are any criteria essential? (Y/N)	No	Condition	Moderate
If Yes are they passed?	N/A		
Suggested enhancement	Hedgerow could be allowed to grow wi	der. Control	species
interventions to improve	indicative of enrichment. Litter manage	ment and in	plant cut
condition score	through.		

Table D.32: Species-rich defunct hedge

JNCC PH1 Classification	J2.2.1 Defunct hedge (species-rich) Distinctiveness Moderate			
UKHABS Classification	Native Species Rich Hedgerow Strategic Significance Location eco desirable but local strategy		ut not in	
Condition Sheet	Hedgerow	Length (km)	0.76	
Limitations	None Line		H87, H43 south, H56	
Habitat Description	Species included blackthorn and hawthorn. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse.			
Criterion	Condition Assessment Criteria	Result	Rationale	
A1. Height	>1.5 m average along length Pass -			-
A2. Width	>1.5 m average along length Pass -			-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')			

B2. Gap - hedge canopy continuity	Gaps make u gaps >5 m	p <10% of total length; and No canopy	Fail	-
C1. Undisturbed ground and perennial vegetation	herbaceous v	undisturbed ground with perennial regetation for >90% of length: m outer edge of hedgerow; and one side of the hedge (at least)	Pass	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Pass	-
Are any criteria (Y/N)	any criteria essential?		Condition	Moderate
If Yes are they passed?		N/A		
interventions to improve plant ga		Underplant hedgerow or improve cutting plant gaps in hedgerow. Control species enrichment.		

Table D.33: Native species rich hedgerow with trees

JNCC PH1 Classification	J2.3.1 Hedge with trees (native species-rich) Distinctiveness High			
UKHABS Classification	Native Species Rich Hedgerow Strategic		Location ed desirable be local strated	ut not in
Condition Sheet	Hedgerow	Length (km)	0.32	
Limitations	None	Line	H73	
Habitat Description	Species included blackthorn and haunderstorey consisted of common in petty spurge, red dead nettle, spear	y, dock, cow's pa	ırsley, hedge	
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Pass	-
A2. Width	>1.5 m average along length		Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Fail	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m		Fail	-
C1. Undisturbed ground and	>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	-

perennial vegetation				
C2. Undesirable perennial vegetation	Plant species soils dominat undisturbed g	Fail	-	
D1. Invasive and neophyte species		nedgerow and undisturbed ground is ve non-native and neophyte species	Pass	-
D2. Current damage		nedgerow or undisturbed ground is free nused by human activities	Pass	-
Additional group – applicable to hedgerows with trees only				
E1. Tree age	At least one mature tree per 30m stretch of hedgerow.		Fail	-
E.2 Tree health	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	-
Are any criteria essential? (Y/N)		No	Condition	Poor
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		Underplant hedgerow or improve cutting plant gaps in hedgerow. Control species enrichment.	•	

Table D.34: Native species rich hedgerow with trees

JNCC PH1 Classification	J2.3.1 Hedge with trees (native species-rich)	Distinctiveness	High		
UKHABS Classification	Native Species Rich Hedgerow with trees	Strategic Significance	desirable b	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	2.74	2.74	
Limitations	None Line		H62, H63, H H82, H81, H H32, H29, H H36, G36	H88, H85,	
Habitat Description	Species included blackthorn and hawthorn. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse.				
Criterion	Condition Assessment Criteria		Result	Rationale	
A1. Height	>1.5 m average along length		Pass	-	
A2. Width	>1.5 m average along length		Pass	-	
B1. Gap – hedge base	Gap between ground and base of carefor >90% of length (unless 'line of tre	Pass	-		
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; gaps >5 m	and No canopy	Pass	-	

C1. Undisturbed ground and perennial vegetation	herbaceous v Measured fro	undisturbed ground with perennial regetation for >90% of length: m outer edge of hedgerow; and one side of the hedge (at least)	Pass	-	
C2. Undesirable perennial vegetation		indicative of nutrient enrichment of e <20% cover of the area of ground.	Fail	-	
D1. Invasive and neophyte species		nedgerow and undisturbed ground is ve non-native and neophyte species	Pass	-	
D2. Current damage		nedgerow or undisturbed ground is free used by human activities	Pass	-	
Additional group	Additional group – applicable to hedgerows with trees only				
E1. Tree age	At least one r	nature tree per 30m stretch of	Pass	-	
E.2 Tree health	condition (exc wildlife). Ther impact on tree	of hedgerow trees are in a healthy cluding veteran features valuable for e is little or no evidence of an adverse health by damage from livestock or pests or diseases, or human activity.	Pass	-	
Are any criteria essential? (Y/N)		No	Condition	Good	
If Yes are they passed?		N/A			

Suggested er	nhancement	
interventions	to improve	Control species indicative of enrichment.
condition sco	re	

Table D.35: Native species rich hedgerow with trees

JNCC PH1 Classification	J2.3.1 Hedge with trees (native species-rich)	Distinctiveness	High	
UKHABS Classification	Native Species Rich Hedgerow with trees	Strategic Significance	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	1.18	
Limitations	None	Line	H86 ²³ , H75, H76, H44 east, H34, H33	
Habitat Description	Species included blackthorn and hawthorn. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse.			
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Pass	-
A2. Width	>1.5 m average along length		Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Pass	-

²³ Hedge 36 was identified as intact species rich hedgerow on Arcus Phase 1 map but an updated condition assessment was undertaken for species rich hedge with trees.

B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m	Fail	-
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)	Pass	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Fail	1
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species	Fail	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities	Fail	-
Additional group	- applicable to hedgerows with trees only		
E1. Tree age	At least one mature tree per 30m stretch of hedgerow.	Pass	-
E.2 Tree health	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	-

Are any criteria essential? (Y/N)	No	Condition	Moderate
If Yes are they passed?	N/A		
Suggested enhancement	Control species indicative of enrichmen	nt, invasive r	non-native
interventions to improve	and neophyte species. Litter managem	ent and in pl	ant cut
condition score	through.		

Table D.36: Native species rich hedgerow

JNCC PH1 Classification	J2.2.1 Defunct hedge (species-rich)	Distinctiveness	Moderate		
UKHABS Classification	Native Species Rich Hedgerow	Strategic Significance	desirable bu	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	0.38	0.38	
Limitations	None	Line	H44 west		
Habitat Description	Species included blackthorn and hawthorn with defunct gaps within hedge structure. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse.				
Criterion	Condition Assessment Criteria		Result	Rationale	
A1. Height	>1.5 m average along length		Pass	-	
A2. Width	>1.5 m average along length		Pass	-	
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Pass	-	

B2. Gap - hedge canopy continuity	Gaps make u gaps >5 m	p <10% of total length; and No canopy	Fail	-
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)		Pass	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage		nedgerow or undisturbed ground is free nused by human activities	Pass	-
Are any criteria essential? (Y/N) If Yes are they passed? No N/A			Condition	Good
interventions to improve		In plant gaps in hedgerow. Control spe species enrichment.	cies indicativ	e of

Table D.37: Native species rich hedgerow – Associated with bank or ditch

JNCC PH1 Classification	J2.1.1 Intact hedge (species-rich) G1 Standing water	Distinctiveness	High	
UKHABS Classification	Native Species Rich Hedgerow – Associated with bank or ditch	Strategic Significance	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	0.23	
Limitations	None	Line	H47	
Habitat Description	Species included blackthorn and hawthorn. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse.			
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Pass	-
A2. Width	>1.5 m average along length		Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Fail	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m		Pass	-
C1. Undisturbed ground and	>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	-

perennial vegetation				
C2. Undesirable perennial vegetation	•	indicative of nutrient enrichment of e <20% cover of the area of ground.	Fail	-
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	1
D2. Current damage		>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		1
Are any criteria (Y/N)	essential?	No	Condition	Moderate
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		Underplant hedgerow or improve cutting management. Ditch could be restored and enhanced. Control species indicative of enrichment.		

Table D.38: Native species rich hedgerow with trees – Associated with bank or ditch

JNCC PH1 Classification	J2.3.1 Hedge with trees (native species-rich) G1 Standing water	Distinctiveness	Very High
UKHABS Classification	Native Species Rich Hedgerow with trees – Associated with bank or ditch	Strategic Significance	Location ecologically desirable but not in local strategy

Condition Sheet	Hedgerow	Length (km)	0.40	
Limitations	None	Line	H77, H38 ²⁴ , east, G49	H78, H42
Habitat Description	Species included blackthorn and hawthorn. Species present in the understorey consisted of common ivy, dock, cow's parsley, hedge mustard, petty spurge, red dead nettle, spear thistle and Shepherd's purse. Associated with a ditch of running water.			
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Pass	-
A2. Width	>1.5 m average along length		Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Pass	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m		Fail	-
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)		Pass	-
C2. Undesirable	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	

²⁴ Not mapped by Arcus, hedgerow noted and assessed by LUC during condition assessments.

perennial vegetation				
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage		nedgerow or undisturbed ground is free used by human activities	Pass	-
Additional group	– applicable to	o hedgerows with trees only		
E1. Tree age	At least one mature tree per 30m stretch of hedgerow.		Pass	
E.2 Tree health	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	-
Are any criteria essential? (Y/N) No		Condition	Good	
If Yes are they passed?		N/A		
interventions to improve		In plant gaps in hedgerow. Control spenutrient enrichment.	cies indicativ	e of

Table D.39: Native hedgerow with trees

JNCC PH1 Classification	N/A ²⁵	Distinctiveness	Moderate
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UKHABS Classification	Native Hedgerow with trees	Strategic Significance	Location ecologically desirable but not in local strategy	
Condition Sheet	Hedgerow	Length (km)	0.68	
Limitations	None	Line	H79, H36a	
Habitat Description	not assessed by Arcus. Hedgerows balckthorn and rare damson.	dominated by have	wthorn with a	bundant
Criterion	Condition Assessment Criteria		Result	Rationale
A1. Height	>1.5 m average along length		Fail	-
A2. Width	>1.5 m average along length		Fail	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')		Pass	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m		Fail	-
C1. Undisturbed	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length:		Pass	
ground and perennial vegetation	Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)			-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	1
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Pass	-
Additional group	- applicable to hedgerows with trees	s only		
E1. Tree age	At least one mature tree per 30m stretch of hedgerow.		Fail	

E.2 Tree health	condition (exc wildlife). Ther impact on tree	of hedgerow trees are in a healthy cluding veteran features valuable for re is little or no evidence of an adverse e health by damage from livestock or pests or diseases, or human activity.	Pass	
Are any criteria essential? (Y/N)		No	Condition	Moderate
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		Hedgerow could be allowed to grow wi gaps in hedgerow. Control species indi		

Table D.40: Native species rich hedgerow with trees

JNCC PH1 Classification	N/A ²⁵	Distinctiveness	High			
UKHABS Classification	Native Species Rich Hedgerow with trees	Strategic Significance	Location ed desirable be local strates	ut not in		
Condition Sheet	Hedgerow	Length (km)	1.59			
Limitations	None	Line	H89 north, G65, G54, H65, H80, H	G55, H64,		
Habitat Description	not assessed by Arcus. Hedgerows dominated by hawthorn with frequent elder and blackthorn and rare ash and elm.					
Criterion	Condition Assessment Criteria	Result	Rationale			

²⁵ Not mapped by Arcus so no JNCC Ph1 Classification available. Hedgerow noted and assessed by LUC during condition assessments

A1. Height	>1.5 m avera	ge along length	Pass	-
A2. Width	>1.5 m avera	Pass	-	
B1. Gap – hedge base		ground and base of canopy <0.5 m	Pass	-
B2. Gap - hedge canopy continuity	Gaps make u gaps >5 m	p <10% of total length; and No canopy	Pass	-
C1. Undisturbed ground and perennial vegetation	herbaceous v Measured fro	undisturbed ground with perennial regetation for >90% of length: m outer edge of hedgerow; and one side of the hedge (at least)	Pass	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.		Fail	
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species		Pass	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities		Pass	-
Are any criteria essential? (Y/N) If Yes are they passed?		No N/A	Condition	Good

Suggested enhancement	
interventions to improve	Control species indicative of nutrient enrichment.
condition score	

Table D.41: Line of Trees

JNCC PH1 Classification	Tree Line – Not mapped by Arcus ²⁰	Distinctiveness		Low
UKHABS Classification	Line of Trees	Strategic Significance		Location ecologically desirable but not in local strategy
Condition Sheet	Line of Trees	Length (km)		0.51
Limitations	None	Line		H49, H41 south, H50 south, G48
Habitat Description	Tree line comprising ash, oak, elder, hawth	orn and haz	el.	
Criterion	Condition Assessment Criteria	Result Rationale		ıle
1	More than 70% of trees are native species.	Pass	-	
2	Tree canopy is predominantly continuous with gaps in canopy cover	Pass	-	

3	individual gap	0% of total area and no being >5 m wide. or more mature or veteran	Pass	-
4	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 anthropogenic operations.		Fail	-
5	At least 95% of the 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	-
Are any criteria non- negotiable? (Y/N)		No	Total	4 of 5
If Yes are they passed?		N/A	Condition	Moderate
Suggested enhancement interventions to improve condition score		Increase the area of undistute the tree line to at least 6m.	urbed vegetat	ion on both sides of

Table D.42: Native hedgerow with trees

JNCC PH1 N/A ²⁵ Classification	Distinctiveness	Moderate
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UKHABS Classification	Native Hedgerow with trees	Strategic Significance	Location ecologically desirable but not in local strategy		
Condition Sheet	Hedgerow	Length (km)	0.57		
Limitations	None	Line	H43 west, 0	946	
Habitat Description	Defunct hedgerow with trees along section, not previously assessed be length, dominated by hawthorn wi	by Arcus. Dense h	nedgerow wit		
Criterion	Condition Assessment Criteria		Result	Rationale	
A1. Height	>1.5 m average along length		Pass	-	
A2. Width	>1.5 m average along length		Pass	-	
B1. Gap – hedge base	Gap between ground and base of for >90% of length (unless 'line of		Fail	Hedgerow defunct	
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length	Fail	Large gaps, defunct		
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground herbaceous vegetation for >90% of Measured from outer edge of hed Is present on one side of the hedge	Fail	1		
C2. Undesirable perennial vegetation	Plant species indicative of nutrient soils dominate <20% cover of the undisturbed ground.	Fail	Large area of nettles and undesirable species at base		
D1. Invasive and neophyte species	>90% of the hedgerow and undist free of invasive non-native and ne	Pass	Non non- native species noted		
D2. Current damage	>90% of the hedgerow or undistur free of damage caused by human	Pass	No damage noted		
Additional group	Additional group – applicable to hedgerows with trees only				

E1. Tree age	At least one mature tree per 30m stretch of hedgerow.		Pass	-
E.2 Tree health	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	Large areas of damaged trees
Are any criteria essential? (Y/N)		No	Condition	Poor
If Yes are they passed?		N/A		
Suggested enhancement interventions to improve condition score		In plant gaps in hedgerow. Control sp enrichment.	ecies indicat	ive of

River Habitats

Table D.43: Ditches

JNCC PH1 Classification	G1 Standing Water	Distinctiveness	Medium
UKHABS Classification	Rivers and streams - Ditches	Strategic Significance	Within area formally identified in local strategy
Condition Sheet	Ditch	Length (km)	0.07
Limitations	None	Line	D6
Habitat Description	Ditches were largely associated with hedger within Park Farm.	ows along field bour	ndaries

Criterion	Condition Assessment Criteria	Result	Rationale
1	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution.	Pass	-
2	A range of emergent, submerged and floating leaved plants are present. As a guide >10 species of emergent, floating or submerged plants in a 20 m ditch length.	Fail	Lack of marginal aquatic vegetation noted.
3	There is less than 10% cover of filamentous algae and/or duckweed (these are signs of eutrophication).	Fail	Signs of eutrophication present.
4	A fringe of marginal vegetation is present along more than 75% of the ditch.	Pass	-
5	Physical damage evident along less than 5% of the ditch, such as excessive poaching, damage from machinery use or storage, or any other damaging management activities.	Pass	-
6	Sufficient water levels are maintained; as a guide a minimum summer depth of approximately 50 cm in minor ditches and 1 m in main drains.	Fail	-
7	Less than 10% of the ditch is heavily shaded.	Pass	-

8	There is an absence of non-native plant and animal species.		Pass	-
Are any criteria non- negotiable? (Y/N)		No	Total	5 of 8
If Yes are they passed?		n/a	Condition	Poor
Suggested enhancement		Planting of native marginal aquatic species. Allow a greater		
interventions to improve		buffer strip of undisturbed vegetation to develop on both sides		
condition score		of the ditch to reduce eutrophication.		

Table D.44: Ditches

JNCC PH1 Classification	G1 Standing Water	Distinctive	eness	Medium
UKHABS Classification	Rivers and streams - Ditches	Strategic Significance		Within area formally identified in local strategy
Condition Sheet	Ditch	Length (km)		0.48
Limitations	None	Line		D7
Habitat Description	Ditches associated with hedgerows along field boundaries, within the northwest of Oaklands.			
Criterion	Condition Assessment Criteria	Result	Rationale	

1	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. A range of emergent, submerged and	Fail	-
2	floating leaved plants are present. As a guide >10 species of emergent, floating or submerged plants in a 20 m ditch length.	Fail	Lack of marginal aquatic vegetation noted.
3	There is less than 10% cover of filamentous algae and/or duckweed (these are signs of eutrophication).	Pass	-
4	A fringe of marginal vegetation is present along more than 75% of the ditch.	Pass	-
5	Physical damage evident along less than 5% of the ditch, such as excessive poaching, damage from machinery use or storage, or any other damaging management activities.	Pass	-
6	Sufficient water levels are maintained; as a guide a minimum summer depth of approximately 50 cm in minor ditches and 1 m in main drains.	Fail	
7	Less than 10% of the ditch is heavily shaded.	Fail	-
8	There is an absence of non-native plant and animal species.	Pass	-

Are any criteria non- negotiable? (Y/N)	No	Total	4 of 8
If Yes are they passed?	n/a	Condition	Poor
Suggested enhancement interventions to improve condition score	Planting of native marginal aquatic species. Selective thinning of bankside woody vegetation to reduce shading.		

Table D.45: Ditches

JNCC PH1 Classification	G1 Standing Water	Distinctiveness		Medium
UKHABS Classification	Rivers and streams - Ditches	Strategic Significance		Within area formally identified in local strategy
Condition Sheet	Ditch	Length (kr	Length (km)	
Limitations	None	Line		D12
Habitat Description	Ditches present within the woodland at Drakelow, with D12 associated with Pond 6. Small stream with low flow and Himalayan balsam <i>Impatiens</i> glandulifera present.			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution.	Pass	Clear water	

2	floating leaved guide >10 spe	nergent, submerged and diplants are present. As a ecies of emergent, floating plants in a 20 m ditch	Fail	Lack of aquatic vegetation noted.
3	filamentous al	than 10% cover of gae and/or duckweed ns of eutrophication).	Pass	None present
4		arginal vegetation is present an 75% of the ditch.	Fail	Bare earth banks no marginal vegetation
5	5% of the ditc	age evident along less than h, such as excessive nage from machinery use any other damaging activities.	Pass	No damage noted
6	a guide a mini	er levels are maintained; as imum summer depth of 50 cm in minor ditches ain drains.	Fail	Shallow and low flow
7	Less than 10% shaded.	% of the ditch is heavily	Fail	90% of ditch shaded
8	There is an ab	osence of non-native plant pecies.	Fail	Himalayan balsam present
Are any criteria negotiable? (Y/N		No	Total	3 of 8

If Yes are they passed?	n/a	Condition	Poor				
Suggested enhancement	Planting of native marginal	aquatic speci	es. Selective thinning				
interventions to improve	of bankside woody vegetation to reduce shading. Control						
condition score	Himalayan balsam.						

Table D.46: Ditches

JNCC PH1 Classification	G1 Standing Water	Distinctive	eness	Medium	
UKHABS Classification	Rivers and streams - Ditches	Strategic Significan	Within area formally identified in local strategy		
Condition Sheet	Ditch	Length (kr	m)	0.13	
Limitations	None	Line		D17	
Habitat Description	Ditch with standing water along H22 within water with sections further along the hedge survey.				
Criterion	Condition Assessment Criteria	Result	Rationa	le	
1	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution.	Fail	Fail -		
2	A range of emergent, submerged and floating leaved plants are present. As a guide >10 species of emergent, floating	Fail		marginal vegetation	

	or submerged	d plants in a 20 m ditch		
3	filamentous a	than 10% cover of Igae and/or duckweed Ins of eutrophication).	Pass	No signs of eutrophication present.
4		arginal vegetation is present nan 75% of the ditch.	Fail	-
5	5% of the dito	age evident along less than ch, such as excessive mage from machinery use any other damaging activities.	Pass	-
6	a guide a min	er levels are maintained; as imum summer depth of y 50 cm in minor ditches ain drains.	Fail	-
7	Less than 10 ^o shaded.	% of the ditch is heavily	Fail	Heavily shaded by hedge and other vegetation
8	There is an a	bsence of non-native plant pecies.	Pass	None noted
Are any criteria negotiable? (Y/N		No	Total	3 of 8
If Yes are they p	passed?	n/a	Condition	Poor

Suggested enhancement interventions to improve condition score

Planting of native marginal aquatic species.

River Condition Assessment Results

D.2 The following table details the condition assessments of the river sub-reaches on Site.
Further information is provided within Technical Appendix 6.13: River Condition
Assessment.

D.3 RCI results are outlined below, for ease when interpreting these data, the following colour coding has been adopted:

- Green indicates an RCI in optimal condition and no enhancement options are available.
- Yellow indicates an RCI where some enhancement options may be available.
- Red indicates an RCI where significant enhancement options may be available.

Table D.47: River Condition Indicator Results

Condition	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Comments
Indicator	-	-	-	-	-	-	-	
	reac	reac	reac	reac	reac	reac	reac	
	h A	h B	h C	h D	hΕ	hΥ	hΖ	
River Type	Н	Н	Н	Н	Н	Н	Н	
Bank Top P	Bank Top Positive Indicators							
Bank top								Relatively diverse vegetation
vegetation	2	3	3	3	3	4	3	structure from mosses, grasses,
structure								scrub and trees.
Bank top	2	0	0	4	1	3	0	Mainly saplings and mature trees,
tree				Ţ				with small amounts of large trees.

Condition Indicator River Type feature richness	Sub - reac h A	Sub - reac h B	Sub - reac h C	Sub - reac h D	Sub - reac h E H	Sub - reac h Y	Sub reac h Z	Comments
Bank top water- related features Bank Top N	2 egative	1 E Indica	O	2	0	0	0	No water related features on the bank tops for the majority of the stream, with small areas of marginal vegetation.
Bank top NNIPS cover	0	0	0	0	0	0	0	No non-native invasive plant species (within 10m of the bank edge).
Bank top managed ground cover	-3	-4	-4	-3	-4	-4	-4	Consisted of arable fields on both bank tops.
Bank Face I	ators							
Bank face riparian vegetation structure	2	3	3	2	3	3	3	Vegetation structure is diverse with mosses, grasses, scrub, saplings and trees.

Condition Indicator	Sub - reac h A	Sub - reac h B	Sub - reac h C	Sub - reac h D	Sub - reac h E	Sub - reac h Y	Sub - reac h Z	Comments
River Type	Н	Н	Н	Н	Н	Н	Н	
Bank face tree feature richness	3	3	3	4	3	3	3	Large areas of trees and shrubs on the bank face.
Bank face natural bank profile extent	3	3	3	2	3	3	3	The majority of the stream possessed a natural bank profile.
Bank face natural bank profile richness	4	4	3	4	4	3	3	Bank face profile is typical of low gradient rivers.
Bank face natural bank material richness	1	1	1	2	1	1	1	Mainly dominant earth sediment with small areas of silt.
Bank face bare	3	4	3	1	4	3	1	Sub-reaches D and Z had larger areas of bare sediment.

Condition	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Comments
Indicator	-	-	-	-	-	-	-	
	reac	reac	reac	reac	reac	reac	reac	
	h A	h B	h C	h D	hΕ	hΥ	hΖ	
River Type	Н	Н	Н	Н	Н	Н	Н	
sediment extent								
Bank Face I	Vegativ	e Indic	ators					
Bank face artificial bank profile	0	0	0	0	0	0	0	No artificial bank profile.
extent								
Bank face reinforcem ent extent	0	0	0	0	0	0	0	No bank reinforcement along the bank face.
Bank face reinforcem ent material severity	0	0	0	0	0	0	0	No bank reinforcement along the bank face.
Bank face NNIPS cover	0	0	0	0	0	0	0	No non-native invasive plant species.
Channel Ma	rgin Po	ositive	Indicat	ors				

Condition Indicator	Sub - reac h A	Sub - reac h B	Sub - reac h C	Sub - reac h D	Sub - reac h E	Sub - reac h Y	Sub - reac h Z	Comments
River Type	Н	Н	Н	Н	Н	Н	Н	
Channel margin aquatic vegetation extent	1	1	1	2	1	1	1	Aquatic vegetation is partially present along the channel margins.
Channel margin aquatic morphotyp e richness	0	0	0	1	0	1	0	Little variety in the aquatic morphotypes.
Channel margin physical feature extent	2	3	3	2	3	2	2	Nest holes present on some of the bank faces.
Channel margin physical feature richness	3	1	1	3	1	1	1	Little variety in channel margin physical features.
Channel Ma	rgin Ne	egative	Indica	tors				

Indicator Channel Channel Channel Channel Channel	Condition	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Comments
River Type H H H H H H H H H H H H H H H H H H H		-	-	-	-	-	-	-	
River Type H H H H H H H H H H H H H H H H H H H		reac	reac	reac	reac	reac	reac	reac	
Channel margin artificial features Channel Aquatic Positive Indicators Channel aquatic morphotype e richness Channel Bed Positive Indicators Channel bed tree features Channel bed Positive Indicators Channel		h A	h B	h C	h D	hΕ	hΥ	hΖ	
margin artificial features Channel Aquatic Positive Indicators Channel aquatic morphotype e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed tree features richness Channel bed hydraulic features	River Type	Н	Н	Н	Н	Н	Н	Н	
artificial features Channel Aquatic Positive Indicators Channel aquatic morphotype e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features Channel bed hydraulic features Channel bed hydraulic features Channel bed hydraulic features Channel bed hydraulic features, due to low flow rate.	Channel								No artificial features.
Channel Aquatic Positive Indicators Channel aquatic positive Indicators Channel aquatic positive Indicators Channel aquatic positive Indicators Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic positive Indicators Little variety in the aquatic morphotypes, in areas less shaded by trees. Majority of the channel beds were shaded by trees. Little variety in hydraulic features, due to low flow rate.	margin	0	0	0	0	0	0	0	
Channel Aquatic Positive Indicators Channel aquatic morphotype e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features				J		J	J		
Channel aquatic morphotype e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features The properties of the channel bed bed hydraulic features features Channel bed hydraulic features The properties of the channel bed were shaded by trees. Little variety in the aquatic morphotypes, in areas less shaded by trees. Majority of the channel beds were shaded by trees. Little variety in hydraulic features, due to low flow rate.	features								
aquatic morphotyp e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features The features richness The fea	Channel Aq	uatic P	ositive	Indica	tors				
morphotyp e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features The property of the channel beds were shaded by trees. Little variety in hydraulic features, due to low flow rate.	Channel								Some variety in the aquatic
morphotyp e richness Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features The property of the channel beds were shaded by trees. Little variety in hydraulic features, due to low flow rate.	aquatic	1	2	3	2	2	1	1	morphotypes, in areas less
Channel Bed Positive Indicators Channel bed tree features richness Channel bed hydraulic features The features of the channel beds were shaded by trees. Little variety in hydraulic features, due to low flow rate.		·	_	J	_	_	·	Ċ	shaded by trees.
Channel bed tree features richness Channel bed hydraulic features The state of the channel beds were shaded by trees. The state of the channel beds were shaded by trees. Little variety in hydraulic features, due to low flow rate.	e richness								
bed tree features richness Channel bed hydraulic features 1	Channel Be	d Posit	ive Ind	icators					
features richness Channel bed hydraulic features 1	Channel								Majority of the channel beds were
features richness Channel bed hydraulic features 1	bed tree	3	2	2	4	3	3	3	shaded by trees.
Channel bed hydraulic features 2 0 1 3 1 2 2 Eittle variety in hydraulic features, due to low flow rate.	features		_	_	·	J	J	J	
bed hydraulic features bed 2 0 1 3 1 2 2 due to low flow rate.	richness								
hydraulic features 2 0 1 3 1 2 2	Channel								Little variety in hydraulic features,
features	bed								due to low flow rate.
	hydraulic	2	0	1	3	1	2	2	
richness	features								
	richness								

Condition	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Comments
Indicator	-	-	-	-	-	-	-	
	reac	reac	reac	reac	reac	reac	reac	
	h A	h B	h C	h D	h E	hΥ	h Z	
River Type	Н	Н	Н	Н	Н	Н	Н	
Channel bed natural features extent	3	1	0	3	0	0	1	Reaches A and D had areas such as pools and riffles.
Channel bed natural features richness	2	0	0	1	0	0	0	Little variety in channel bed features.
Channel bed material richness	2	3	3	3	3	4	3	Channel bed had variety of different material including gravel/pebble, sand, organic matter.
Channel Be	d Nega	ative In	dicator	S				
Channel bed siltation	-3	-2	0	-4	-2	-2	-1	Sub-reaches A and D had deep layers of silt on the channel bed, whilst the remaining reaches had little silt.
Channel bed	0	0	0	0	0	0	0	No channel bed reinforcements.

Condition	Sub	Comments						
Indicator	-	-	-	-	-	-	-	
	reac							
	h A	h B	h C	h D	hΕ	hΥ	hΖ	
River Type	Н	Н	Н	Н	Н	Н	Н	
reinforcem ent extent								
Channel bed reinforcem ent severity	0	0	0	0	0	0	0	No channel bed reinforcements.
Channel bed artificial features severity	-1	0	0	-3	0	-3	-1	Majority of reaches had no or little artificial features, however, reaches D and Y had small organic weirs.
Channel bed NNIPS extent	0	0	0	0	0	0	0	No non-native invasive plant species.
Channel bed filamentou s algae extent	-1	0	0	-2	0	0	0	Little filamentous algae identified.

Condition	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Comments
Indicator	-	-	-	-	-	-	-	
	reac	reac	reac	reac	reac	reac	reac	
	h A	h B	h C	h D	hΕ	hΥ	h Z	
River Type	Н	Н	Н	Н	Н	Н	Н	
Final	Mod	Mod	Mod	Fairl	Mod	Mod	Mod	
Condition	erat	erat	erat	у	erat	erat	erat	
Assessm	е	е	е	Goo	е	е	е	
ent ²⁶				d				

²⁶ Average of RCI's (subject to weighting by river type) and calculated through cartographer.io software.

Appendix E

Proposed Assessment Proformas

E.1 The following proformas constitute the created habitats on Site and provide further clarity in their proposed conditions.

Proposed Habitat Condition Assessments

Table E.1: Other woodland; broadleaved

JNCC PH1 Classification	A1.1 Semi-natural broadleaved woodland	Distinctiveness	High			
UKHABS Classification		Strategic Significance	Within area			
	Woodland and forest - Other woodland; broadleaved		formally identified in local strategy			
Condition Sheet	Woodland	Area (Ha)	5.51			
Limitations	None	Polygon	-			
Habitat Description	Semi-natural broadleaved woodland to be created across the Site for screening and enhancement purposes. Woodland understory to consist mainly of Corylus avellana (Hazel) and Crataegus monogyna (Hawthorn) with some Prunus spinosa (Blackthorn), Rhamnus cathartica (Purging Buckthorn) and Salix cinerea (Grey Willow). Woodland trees to consist mainly of Acer campestre (Field maple) and Ilex aquifolium (Holly) with some Malus					

		sylvestris (Crab Apple), Populus tremula (Aspen) and Sorbus aucuparia (Rowan).				
Criterion	Indicator	Condition Description	Score	Rationale		
1	Age distribution of trees	One age present	Poor (1 point)	New specimens added		
2	Wild, domestic and feral herbivore damage	Evidence of significant browsing pressure is present in 40% or less of whole woodland	Moderate (2 points)	Potential for browsing but deer fencing proposed.		
3	Invasive plant species	Rhododendron or laurel not present, other invasive species < 10% cover	Good (3 points)	Only native species proposed		
4	Number of native tree species	Five or more native tree or shrub species found across woodland parcel	Good (3 points)	As above		
5	Cover of native tree and shrub species	> 80% of canopy trees and >80% of understory shrubs are native	Good (3 points)	As above		
6	Open space within woodland	10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower	Good (3 points)			

Are any criteria non-negotiable? (Y/N)		N	Total	29 of 39
13	Woodland disturbance	Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground	Moderate (2 points)	
12	Amount of deadwood	50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps	Good (3 points)	
11	structure Veteran trees	No veteran trees present in woodland	points) Poor (1 point)	
10	Vegetation and ground flora Woodland vertical	No recognisable NVC community Two storeys across all survey	Poor (1 point) Moderate (2	Will take time to establish
8	Tree health	Tree mortality less than 10%, no pests or diseases and no crown dieback	Good (3 points)	
7	Woodland regeneration	No classes or coppice regrowth present in woodland	Poor (1 point)	New woodland
		threshold of 10% does not apply		

If Yes are they passed?	n/a	Condition	Moderate

Table E.2: Other neutral grassland (created beneath arrays)

JNCC PH Classifica		J2.2 Neutral semi-improved grassland	Distinctive	ness	Medium		
UKHABS Classifica	tion	Grassland – Other neutral grassland	Strategic Significance				ocation ecologically desirable but not in ocal strategy
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)		61.89		
Limitation	S	None	Polygon				
Habitat		Grassland beneath the solar arrays of meadow mix but kept shorter to prevent at poor condition.					
Criterion	Cond	dition Assessment Criteria		Result	Rationale		
1	close grass Wildt spec	appearance and composition of the very matches characteristics of the special stand habitat type (see UKHab definition of the special stand habitat type and indicator species of the grassland habitat type are very clear yers with the sward.	ific on). for the	Fail			
2	provi	rd height is varied creating microclimat de opportunities for insects, birds and imals to live and breed.		Fail	Maintained sward height		

JNCC PH Classifica		J2.2 Neutral semi-improved grassland	Distinctiveness		Medium		
UKHABS Classifica		Grassland – Other neutral grassland	Strategic Significance		Significance de		Location ecologically desirable but not in local strategy
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)		61.89		
Limitation	S	None	Polygon		-		
Habitat Description	Habitat Description Grassland beneath the solar arrays created after construction and sown was meadow mix but kept shorter to prevent shading so conservatively estimated at poor condition.						
Criterion	Cond	dition Assessment Criteria		Resul	t Rationale		
3		er of bare ground between 1% and 5% ised areas.	, including	Fail	Bare ground less than 1%		
4		er of bracken less than 20% and cover uding bramble) less than 5%.	of scrub	Pass	No scrub or bracken noted		
5	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition and physical damage accounts for less than 5% of total area.				No invasive non- native species present.		
Additiona	Additional Group (Non-acid types only)						
6	Ther	e are greater than 9 species per metre	e squared.	Fail	Species diversity dependant on meadow mix,		

JNCC PH1 Classification	J2.2 Neutral s	semi-improved		Distinctiveness		Medium			
UKHABS Classification	Grassland – G	Other neutral		Strategic Significance				de	cation ecologically sirable but not in all strategy
Condition Sheet		bitat Type (med gh distinctivenes		Area (Ha)		Area (Ha) 61.89		.89	
Limitations	None			Polygon	Polygon		-		
Habitat Description		but kept shorter	•				etion and sown with		
Criterion Cond	dition Assessm	ent Criteria			Resu	ult	Rationale		
							conservative approach taken.		
Are any criteria (Y/N)	essential?	Yes	Total		2 of	6			
If Yes are they	passed?	No	Cond	ition	Poor	•			

Table E.3: Neutral semi-improved grassland (created outside arrays)

JNCC PH Classifica		J2.2 Neutral semi-improved grassland	Distinctiveness		Medium
UKHABS Classifica		Grassland – Other neutral grassland	Strategic Significance		Location ecologically desirable but not in local strategy
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)		47.99
Habitat	Habitat Description None Species rich grassland created around the arrays and a use of a seed mix and management. In addition, grassl scattered urban trees as enhancement within the north				land created with
Criterion	Cond	dition Assessment Criteria		Resu	It Rationale
1	close grass Wildf spec	appearance and composition of the vertely matches characteristics of the spectal sland habitat type (see UKHab definition of the spectal flowers, sedges and indicator species if it is grassland habitat type are very cless y visible throughout the sward.	cific on). for the	Pass	Grassland will be managed as species rich grassland meadow.
2	provi	rd height is varied creating microclimates which ide opportunities for insects, birds and small mals to live and breed.			Maintained sward height
3		er of bare ground between 1% and 5% ised areas.	, including	Fail	Bare ground less than 1%

JNCC PH	_		ness	Medium			
UKHABS Classifica		Grassland – Other neutral grassland	Strategic Significance		Significance de		Location ecologically desirable but not in local strategy
Condition Sheet		Grassland Habitat Type (medium, high & very high distinctiveness)	Area (Ha)		47.99		
Limitation	IS	None	Polygon		-		
Habitat Description Species rich grassland created around the arrays and across the site thro use of a seed mix and management. In addition, grassland created with scattered urban trees as enhancement within the north of Oaklands Farm					land created with		
Criterion Condition Assessment Criteria Result Ratio					lt Rationale		
4		er of bracken less than 20% and cover uding bramble) less than 5%.	of scrub	Pass	No scrub or bracken noted		
5	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition and physical damage accounts for less than 5% of total area.				No invasive non- native species present.		
Additiona	l Grou	p (Non-acid types only)					
6	There are greater than 9 species per metre squared.			Fail	Species diversity dependant on meadow mix, conservative approach taken.		

JNCC PH1 Classification	J2.2 Neutral	Distinctive	ness	Medium			
UKHABS Classification	Grassland – Other neutral grassland			Strategic Significand	ce	Location ecological desirable but not in local strategy	•
Condition Sheet	Grassland Habitat Type (medium, high & very high distinctiveness)			Area (Ha)		47.99	
Limitations	None			Polygon		-	
Habitat Description	use of a seed	mix and manag	ement.	In addition,	grass	across the site thro land created with n of Oaklands Farm	
Criterion Cond	dition Assessm	ent Criteria			Resu	Ilt Rationale	
Are any criteria essential? (Y/N)		Yes	Total		3 of (6	
If Yes are they	passed?	Yes	Cond	ition	Moderate		

Table E.4: Mixed scrub

JNCC PH1 Classification	A2.1 Dense scrub	Distinctiven ess	Medium
UKHABS Classification	Heathland and shrub – Mixed scrub	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Scrub	Area	0.71
Limitations	None	Polygon	-

Habitat Description	New areas of mixed scrub created to increase habitat connectivity across the Site. Planting to consist mainly of hazel and hawthorn, with some blackthorn, purging buckthorn and grey willow.			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box, which can be up to 100% cover).	Pass	Range of species noted with no species more than 75% of the cover.	
2	There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.	Pass	Varied age range noted.	
3	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 or undesirable species noted.	
4	The scrub has a well-developed edge with scattered scrub and tall grassland and/or	Pass	Well-developed edge noted.	

	herbs present between the scrub and adjacent habitat(s).		
5	There are clearings, glades or rides present within the scrub, providing sheltered edges.	Fail	Scrub dense with no clearings, glades or rides.
Are any criteria non- negotiable? (Y/N)	N	Total	4 of 5
If Yes are they passed?	n/a	Condition	Moderate

Table E.5: Proposed Urban Trees

JNCC PH1 Classification	A3.1 Broadleaved scattered trees	Distinctiveness	Moderate	
UKHABS Classification	Urban tree	Strategic Significance	Within area formally identified in local strategy	
Condition Sheet	Urban trees	Area (ha)	3.48	
Limitations	Number taken from Landscape Strategy plan and area calculated using Urban Tree Helper within 3.1 Metric	Location	Within fields P1 and O3 as scattered tree planting areas	
Habitat Description	New scattered tree planting to consist mainly of pedunculate oak, field maple, and holly with some crab apple, aspen, rowan and small leaved lime.			

	Proposed trees around the edge of solar arrays should not exceed 8-10m in height at maturity to avoid shading of solar PV panels.			
Criterion	Condition Assessment Criteria	Result	Rationale	
1	The tree is a native species(or more than 70% within the block are native species).	Pass	Native species proposed	
2	The tree canopy is predominantly continuous, with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide (individual trees automatically pass this criterion).	Fail	Scattered trees with gaps between	
3	The tree is mature or veteran or more than 50% within the block are mature or veteran).	Fail	-	
4	There is little or no evidence of an adverse impact on tree health by anthropogenic activities such as vandalism or herbicide use. There is no current regular pruning regime so the trees retain >75% of expected canopy for their age range and height.	Fail	Pruning may be required close to arrays	
5	Micro-habitats for birds, mammals and insects are present e.g. presence of deadwood, cavities, ivy or loose bark	Fail	-	
6	More than 20% of the tree canopy area is oversailing vegetation beneath.	Pass	Trees within planting area with grassland beneath	

Are any criteria essential? (Y/N)	No	Condition	Poor
If Yes are they passed?	N/A		

Proposed Hedgerow Condition Assessment Proformas

Table E.6: Proposed native species rich hedgerow

JNCC PH1 Classification	J2.1.1 Intact hedge (species-rich)	Distinctiveness	Moderate
UKHABS Classification	Native Species Rich Hedgerow	Strategic Significance	Location ecologically desirable but not in local strategy
Condition Sheet	Hedgerow	Length (km)	2.86
Limitations	None	Line	N/A
Habitat Description	New hedgerow planting to comprise (Hawthorn) with some Corylus avella campestre (Field maple), Prunus specathartica (Purging Buckthorn). Hedgerow is to be created along the that lies within fields O3, O6 and O9 addition, hedgerow will be created a planting within the O3, within field O screening, and at several points aro field O1, for greater screening and he is proposed along the farmers track Road within O4, to increase visual several points.	ana (Hazel), Ilex a inosa (Blackthorn e proposed Perm d, in the south of Callong the northern 2 set back from Callond the Oaklands abitat connectivity along O4 and to the	aquifolium (Holly), Acer) and Rhamnus issive Right Of Way, Daklands Farm. In boundary of proposed Coton Road for visual is Farm Site boundary in y. Additional hedgerow

Criterion	Condition Assessment Criteria	Result	Rationale
A1. Height	>1.5 m average along length	Pass	-
A2. Width	>1.5 m average along length	Pass	-
B1. Gap – hedge base	Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')	Pass	-
B2. Gap - hedge canopy continuity	Gaps make up <10% of total length; and No canopy gaps >5 m	Pass	-
C1. Undisturbed ground and perennial vegetation	>1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: Measured from outer edge of hedgerow; and Is present on one side of the hedge (at least)	Fail	-
C2. Undesirable perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground.	Pass	-
D1. Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species	Pass	-
D2. Current damage	>90% of the hedgerow or undisturbed ground is free of damage caused by human activities	Fail	-
Are any criteria (Y/N)	essential? No	Condition	Good
If Yes are they p	passed? N/A		

Proposed River Condition Assessments

E.2 Further information on the proposed River condition assessment for the river on Site is detailed within **ES Volume 3, Appendix 6.13: River Condition Assessment**.

Table E.7: Ditches

JNCC PH1 Classification	G1 Standing Water	Distinctive	eness	Medium
UKHABS Classification	Rivers and streams - Ditches	Strategic Significan	ce	Within area formally identified in local strategy
Condition Sheet	Ditch	Length (kr	n)	0.48
Limitations	None	Line		D7
Habitat Description	Ditch 7 located within the north west of the Oaklands Farm Area, along a field boundary and associated with a hedgerow. Proposed for enhancement through planting of native marginal aquatic species, and selective thinning of bankside woody vegetation to reduce shading. Enhances to moderate by passing criteria 2 and 7.			
Criterion	Condition Assessment Criteria	Result	Rationa	le
1	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution.	Fail	-	

2	A range of emergent, submerged and floating leaved plants are present. As a guide >10 species of emergent, floating or submerged plants in a 20 m ditch length.	Pass	Enhanced through planting of native marginal aquatic species
3	There is less than 10% cover of filamentous algae and/or duckweed (these are signs of eutrophication).	Pass	-
4	A fringe of marginal vegetation is present along more than 75% of the ditch.	Pass	-
5	Physical damage evident along less than 5% of the ditch, such as excessive poaching, damage from machinery use or storage, or any other damaging management activities.	Pass	-
6	Sufficient water levels are maintained; as a guide a minimum summer depth of approximately 50 cm in minor ditches and 1 m in main drains.	Fail	
7	Less than 10% of the ditch is heavily shaded.	Pass	Enhanced through selective thinning of bankside woody vegetation to reduce shading
8	There is an absence of non-native plant and animal species.	Pass	-

Are any criteria non-negotiable? (Y/N)	No	Total	6 of 8
If Yes are they passed?	n/a	Condition	Moderate

Table E.8: Ditches

JNCC PH1 Classification	G1 Standing Water	Distinctiveness	Medium
UKHABS Classification	Rivers and streams - Ditches	Strategic Significance	Within area formally identified in local strategy
Condition Sheet	Ditch	Length (km)	0.13
Limitations	None	Line	D17
Habitat Description	Ditch with standing water along H22 within Oaklands. Part of ditch contained water with sections further along the hedge that were dry at the time of survey. Enhanced through planting of native marginal aquatic species and selective thinning of bankside woody vegetation to reduce shading. Also by allowing a greater buffer strip of undisturbed vegetation to develop on both sides of the ditch to reduce eutrophication. This will in turn help to increase the water quality of the ditch. Enhances to moderate condition by passing criteria 1, 2 and 7.		

Criterion	Condition Assessment Criteria	Result	Rationale
1	The ditch is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution.	Pass	Enhance by allowing a greater buffer strip of undisturbed vegetation to develop on both sides of the ditch to reduce eutrophication
2	A range of emergent, submerged and floating leaved plants are present. As a guide >10 species of emergent, floating or submerged plants in a 20 m ditch length.	Pass	Enhanced through planting of native marginal aquatic species
3	There is less than 10% cover of filamentous algae and/or duckweed (these are signs of eutrophication).	Pass	No signs of eutrophication present.
4	A fringe of marginal vegetation is present along more than 75% of the ditch.	Fail	-
5	Physical damage evident along less than 5% of the ditch, such as excessive poaching, damage from machinery use or storage, or any other damaging management activities.	Pass	-
6	Sufficient water levels are maintained; as a guide a minimum summer depth of	Fail	-

	approximately and 1 m in ma	v 50 cm in minor ditches ain drains.		
7	Less than 10 ^o shaded.	% of the ditch is heavily	Pass	Enhanced through selective thinning of bankside woody vegetation to reduce shading
8	There is an all and animal sp	osence of non-native plant pecies.	Pass	None noted
Are any criteria non- negotiable? (Y/N)		No	Total	6 of 8
If Yes are they p	assed?	n/a	Condition	Moderate

Appendix F

Assessment Results

Oaklands Farm Solar Park Headline Results Return to results menu		
	Habitat units	452.17
On-site baseline	Hedgerow units	189.42
	River units	21.06
On site reset interprenties	Habitat units	1017.68
On-site post-intervention	Hedgerow units	227.34
(Including habitat retention, creation & enhancement)	River units	25.24
O	Habitat units	125.07%
On-site net % change	Hedgerow units	20.02%
(Including habitat retention, creation & enhancement)	River units	19.82%
	Habitat units	0.00
Off-site baseline	Hedgerow units	0.00
	River units	0.00
0.00	Habitat units	0.00
Off-site post-intervention	Hedgerow units	0.00
(Including habitat retention, creation & enhancement)	River units	0.00
M-4-1	Habitat units	565.51
Total net unit change	Hedgerow units	37.92
(including all on-site & off-site habitat retention, creation & enhancement)		4.18
	Habitat units	125.07%
Total on-site net % change plus off-site surplus	Hedgerow units	20.02%
(including all on-site & off-site habitat retention, creation & enhancement)	River units	19.82%
Trading rules Satisfied?	Υe	es √

irading	Summary					
Distinctiveness Group		Trading F	tule		Trading Satisfied?	
Very High	Bespoke co	npensation like	ly to be requi	red 🛠	Yes √	
High		Same habitat re	quired =		Yes √	
Medium	Same broad habitat o			itst manierd (A)	Yes J	
		tiveness or bet				
Low	Same distina	tiveness of bet	ter navitat requ	oneo S	Yes √	
Very High I	Distinctiveness					Very High Distinctiveness Sur
Habitat group	Group	On Site Unit	Off Site Unit	Project wide Unit Change	Unit Losses	Very High Distinctiveness Units available to offset lower
	2 4 4	Change	Change			
Grassland - Lowland dry acid grassland Grassland - Lowland meadows	Grassland Grassland	0.00	0.00	0.00		
Grassland - Upland hay meadows	Grassland	0.00	0.00	0.00		
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00	0.00	0.00		
Lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00	0.00	0.00		
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00		
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00	0.00	0.00		
Wetland - Blanket bog Wetland - Depressions on Peat substrates (H7150)	Wetland Wetland	0.00	0.00	0.00		
Wetland - Depressions on Peat substrates (H/150) Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00		
Wetland - Lowland raised bog	Wetland	0.00	0.00	0.00		
Wetland - Oceanic Valley Mire[1] (D2.1)	Wetland	0.00	0.00	0.00		
Wetland - Purple moor grass and rush pastures	Wetland	0.00	0.00	0.00		
Wetland - Transition mires and quaking bogs (H7140)	Wetland Woodland and forest	0.00	0.00	0.00		
Woodland and forest - Wood-pasture and parkland Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00		
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00		
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00		
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00		
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00		
		0.00	0.00	0.00	0.00	
High Die	inctiveness					High Distinctiveness Summ
riigii Dis	menveness	On Site	Off Site	Project wide	Losses not yet accounted	High Distinctiveness Units available to offset lower
Habitat group	Group	Unit Change	Unit Change	Unit Change	for	distinctiveness defecit
Grassland - Traditional orchards	Grassland	0.00	0.00	0.00		Unit Defecit; Like for like not satisfied
Grassland - Floodplain Wetland Mosaic (CFGM) Grassland - Lowland calcareous grassland	Grassland Grassland		0.00	0.00		
Grassland - Tall herb communities (H6430)	Grassland	0.00	0.00	0.00		
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00		
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00		
Heathland and shrub - Sea buckthorn scrub (Annex 1)				0.00		
meannaind and sindb - Sea buckmonn scrob (Annex 1)	Heathland and shrub	0.00	0.00			
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00		
Heathland and shrub - Upland Heathland Lakes - High alkalinity lakes	Heathland and shrub Lakes	0.00	0.00	0.00		
Heathland and shrub - Upland Heathland Lakes - High alkalininy lakes Lakes - Low alkalinity lakes	Heathland and shrub Lakes Lakes	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00		
Heathland and shrub - Upland Heathland Lakes - High altalinity lakes Lakes - Low altalinity lakes Lakes - Mari Lakes	Heathland and shrub Lakes Lakes Lakes	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		
Hanthiand and shrub- Upland Hanthiand Lakes - High alltalinity lakes Lakes - Low Stallnity lakes Lakes - Med Lakes Lakes - Med Lakes Lakes - Moderat Stallnity lakes	Heathland and shrub Lakes Lakes Lakes Lakes Lakes	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
Heathland and shrub - Upland Heathland Lakes - High alkalinity lakes Lakes - Low alkalinity lakes Lakes - Mari Lakes	Heathland and shrub Lakes Lakes Lakes	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00		
Heathined and shrub- Upland Heathined Lakes - High Lakening lakes Lakes - Low alkalining lakes Lakes - Moderne atlanting lakes Lakes - Moderne atlanting lakes Lakes - Moderne atlanting lakes	Heathland and shrub Lakes Lakes Lakes Lakes Lakes Lakes Lakes	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00		
Hestifiand and shrub - Upland Hestifiand Lakes - High Lakelinity lakes Lakes - Low alkalinity lakes Lakes - Mart Lakes Lakes - Mart Lakes Lakes - Mart Lakes Lakes - Martinity lakes Lakes - Pend Lakes Lakes - Pend Lakes Lakes - Pend (Pendry Hebina) Lakes - Temporery lakes, ponds and pools Spensyl vegetand land - Constal sand dunes	Heathland and shrub Laikes Sparsely vegetated land	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		
Heathland and shrub - Upland Heathland Lakes - High Lakelininy lakes Lakes - Low attailminy lakes Lakes - Moderne attailminy lakes Lakes - Moderne attailminy lakes Lakes - Moderne attailminy lakes Lakes - Ponoti (Priority Habitat) Lakes - Ponoti (Priority Habitat) Lakes - Temponery lakes, ponds and pools Sparsely vagestated land - Coastat sand dunes Sparsely vagestated land - Coastat steps thingle	Heathland and shrub Lakes Lakes Lakes Lakes Lakes Lakes Lakes Lakes Lakes Sparsely upgeated land Sparsely upgeated fand	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		
Hastifiand and shrub - Upland Hastifiand Lakes - High Hastifianty lakes Lakes - Low alkalinity lakes Lakes - Mart Lakes Lakes - Mart Lakes Lakes - Mart Lakes Lakes - Martines Hastinity lakes Lakes - Martines Hastinity lakes Lakes - Pend Lakes Lakes - Pend Lakes Lakes - Pend Lakes Lakes - Pend property Hakes, pendi and pools Sperarly vegetanted land - Constat and dunes Sperarly vegetanted land - Constat vegetanted shingle Spararly vegetanted land - Constat vegetanted shingle	Heathland and shrub Lakes Lakes Lakes Lakes Lakes Lakes Lakes Lakes Lakes Sparsely vegetated land Sparsely vegetated land Sparsely vegetated land	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		
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Heathland and shrub - Upland Heathland Lakes - High Lakinsiry lakes Lakes - Low alkalinity lakes Lakes - Moderate alkalinity lakes Lakes - Moderate alkalinity lakes Lakes - Moderate alkalinity lakes Lakes - Ponda (Priority Hebitat) Spensity vegetated land - Constal and dunes Spensity vegetated land - Constal superated shingle Spensity vegetated land - Constal vegetated shingle Spensity vegetated land - Lakes to person to see habitate Spensity vegetated land - Lakes to person to see habitate Spensity vegetated land - Lakes to person to see habitate Spensity vegetated land - Marisma celf and slope Union - Open More and Spensity vegetated land - Marisma celf and slope Union - Open More - Devision developed Land Woodland and Spensi - Lowland beech and your woodland Woodland and Spensi - Lowland beech and your woodland Woodland and Spensi - Lowland beech and your woodland	Heathland and shrub Labos Sparsely vegetated land Wordland and forest Woodland and forest Woodland and forest Woodland and forest Woodland and forest	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		
Heathined and shrub - Upland Heathined Lakes - Heath attaining takes Lakes - Leve statisting takes Lakes - Moderate attaining takes Lakes - Moderate attaining takes Lakes - Moderate attaining takes Lakes - Pennet (Erisenty Heaten) Sparsely vegetated land - Coastal and duese Sparsely vegetated land - Coastal vegetated shingle Sparsely vegetated land - Jeaned vegetated shingle Sparsely vegetated land - Jeaned vegetated shingle Sparsely vegetated land - Moderate vegetated shingle Sparsely vegetated land - Moderate vegetated shingle Sparsely vegetated land - Moderate vegetated shingle Worder of Readback Woodstand and forest - Falled	Heathland and shrub Lukes Spanny vegetand land Spanny vegetand land Spanny vegetand land Spanny vegetand land Wood and and finest Wood land and finest	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		
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Medium Distinctiveness							
Habitat Group	Group	On site unit change	Off Site unit	Project wide unit change	Cumulative Broad Habitat Change		
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00			
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00	0.00		
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00			
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00			
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00			
Grassland - Other neutral grassland	Grassland	877.92	0.00	877.92	877.92		
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00			
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00			
Heathland and shrub - Bramble scrub	Heathland and shrub	-0.35	0.00	-0.35			
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	4.79		
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	4.75		
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00			
Heathland and shrub - Mixed scrub	Heathland and shrub	5.14	0.00	5.14			
Lakes - Ponds (Non- Priority Habitat)	Lakes	0.00	0.00	0.00	0.00		
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00		
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00			
Urban - Biodiverse green roof	Urban	0.00	0.00	0.00	11.21		
Urban - Urban Tree	Urban	11.21	0.00	11.21			
Woodland and forest - Other Scot's Pine woodland	Woodland and forest	0.00	0.00	0.00			
Woodland and forest - Other woodland; broadleaved	Woodland and forest	23.08	0.00	23.08	23.08		
Woodland and forest - Other woodland; mixed	Woodland and forest	0.00	0.00	0.00			
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00			
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	0.00		
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGGI)	Intertidal	0.00	0.00	0.00			

Medium Distinctiveness Units available to offset lo distinctiveness defecit	wer 917.0
Medium Distinctiveness Broad Habitat Deficit to be by trading up	offset 0.00
Higher distinctiveness surplus units minus Mediu Distinctivenss Broad Habitat Defecit	m 0.00
Cumulative surplus of units	917.0

Low Distinctive	eness				
Habitat group	Group	On site unit change	Off Site Unit	Project wide unit change	Low Distin
opland - Cereal crops	Cropland	0.00	0.00	0.00	Low Distinctivene
opland - Horticulture	Cropland	0.00	0.00	0.00	Cumulative
opland - Intensive orchards	Cropland	0.00	0.00	0.00	
opland - Non-cereal crops	Cropland	-199.06	0.00	-199.06	
land - Temporary grass and clover leys	Cropland	0.00	0.00	0.00	
and - Cereal crops winter stubble	Cropland	0.00	0.00	0.00	
sland - Modified grassland	Grassland	-151.12	0.00	-151.12	
ssland - Bracken	Grassland	0.00	0.00	0.00	
thland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00	
s - Omamental Take or pond	Lakes	0.00	0.00	0.00	
ely vegetated land - Ruderal/Ephemeral	Sparsely vegetated land	0.00	0.00	0.00	
1 - Bioswale	Sparsely vegetated land	0.00	0.00	0.00	
- Afforments	Urban	0.00	0.00	0.00	
a - Facade-bound green wall	Urban	0.00	0.00	0.00	
- Ground based green wall	Urban	0.00	0.00	0.00	
- Ground level planters	Urban	0.00	0.00	0.00	
- Other green roof	Urban	0.00	0.00	0.00	
Intensive green roof	Urban	0.00	0.00	0.00	
- Introduced shrub	Urban	0.00	0.00	0.00	
- Rain garden	Urban	0.00	0.00	0.00	
- Actively worked sand pit quarry or open cast mine	Urban	0.00	0.00	0.00	
- Sustainable urban drainage feature	Urban	0.00	0.00	0.00	
- Vacant/derelict land/ bareground	Urban	-1.32	0.00	-1.32	
- Vegetated garden	Urban	0.00	0.00	0.00	
and and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00	
al saltmarsh - Artificial saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00	
dal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	
dal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00	
idal sediment - Artificial littoral sand	Intertidal sediment	0.00	0.00	0.00	
tidal sediment - Artificial littoral muddy sand	Intertidal sediment	0.00	0.00	0.00	
dal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
idal sediment - Artificial littoral seagrass	Intertidal sediment	0.00	0.00	0.00	
tidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00	
rtidal Hard Structures - Artificial hard structures	Intertidal	0.00	0.00	0.00	
idal Hard Structures - Artificial features of hard structures	Intertidal	0.00	0.00	0.00	
hland and shrub - Sea buckthom scrub (other)	Heathland and shrub	0.00	0.00	0.00	
		-351.49		-351.49	