

Biodiversity Net Gain Report	
<b>For:</b>	Yorkshire Land
<b>Site:</b>	Land Adjoining Smithy House, Bower Hill Road, Oxspring, Sheffield, S36 8WZ
<b>Report Date:</b>	29 <sup>th</sup> of October 2025
<b>Report Reference:</b>	SQ-3283

**Surveying Ecologists:**

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Land adjoining Smithy House  
 Bower Hill Road  
 Oxspring  
 Sheffield  
 S36 8WZ

<b>Client:</b>	Yorkshire Land
<b>Site Name:</b>	Land Adjoining Smithy House, Bower Hill Road, Oxspring, Sheffield, S36 8WZ
<b>Report:</b>	Biodiversity Net Gain Assessment
<b>Survey Date:</b>	13 <sup>th</sup> of May 2025
<b>Surveyed by:</b>	Marie McAvan BSc (Hons) MSc John Davies BSc (Hons)

Issue:	Revision:	Stage:	Date:	Prepared by:	Approved by:
-	-	Draft	29/10/2025	Marie McAvan BSc (Hons) MSc – Estrada Ecology Ltd.	Natasha Estrada MRes, MCIEEM- Estrada Ecology Ltd
-	V1	Final	29/10/2025	Marie McAvan BSc (Hons) MSc – Estrada Ecology Ltd.	Natasha Estrada MRes, MCIEEM- Estrada Ecology Ltd

## 1 Executive Summary

- 1.1 For the proposed development scheme for the site, a net loss of -84.27% for area habitat units is calculated. In addition, a net gain of 29.69% for linear habitat units is calculated. Furthermore, the Trading Summaries for area habitats have not been satisfied by the proposed development scheme.

## 2 Introduction

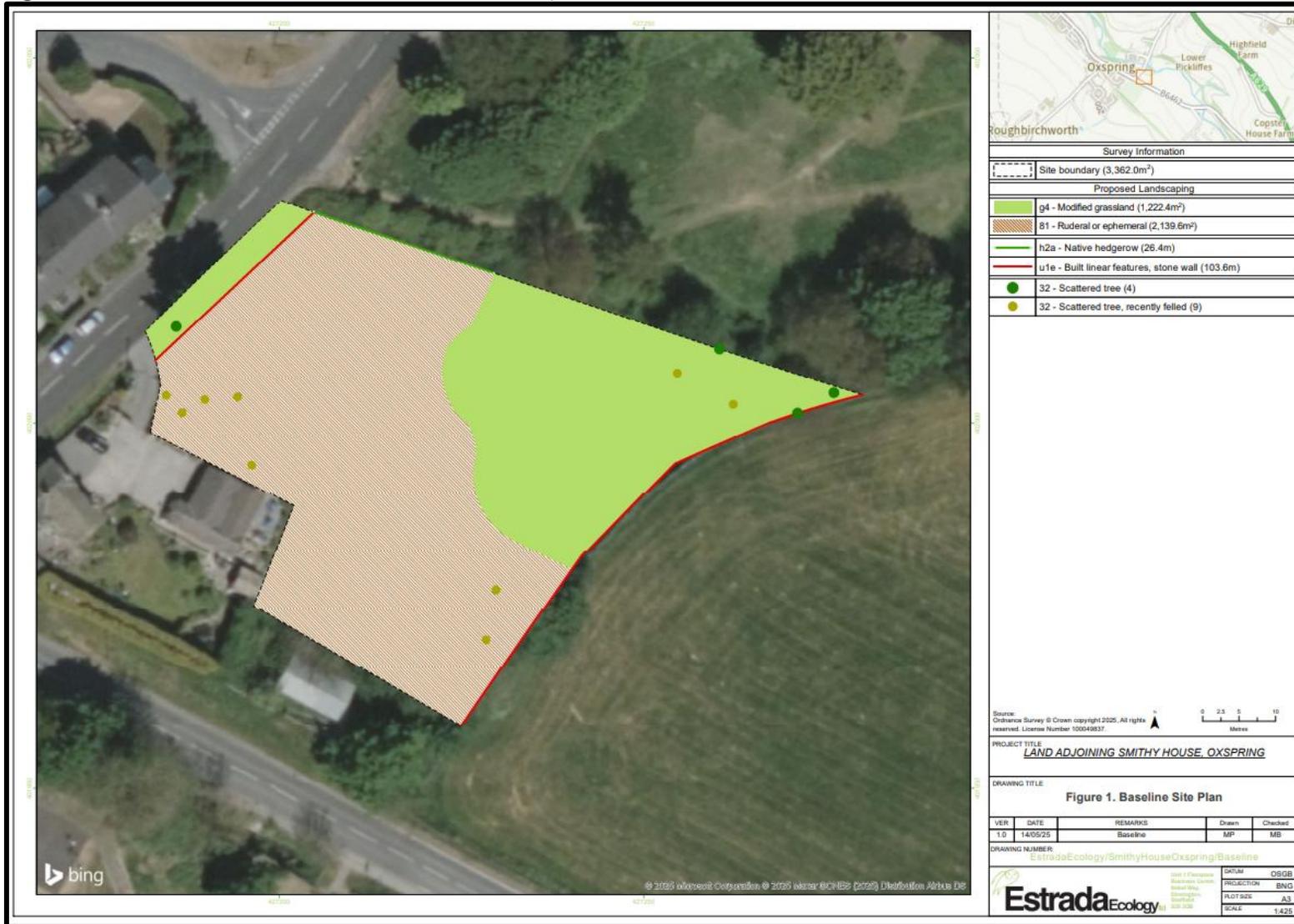
- 2.1 Biodiversity metric calculations were requested by the client to determine the extent of net loss, no net loss, or net gain for the proposed development plan for the site.
- 2.2 Biodiversity metric calculations were therefore undertaken for baseline and post-development habitats for the development site, using the Statutory Biodiversity Metric Calculation Tool developed by DEFRA. This assessment evaluates the impact of current development proposals on existing biodiversity value within the development site.

## 3 Baseline and Post Development Scheme Designs

- 3.1 Figure 1 presents the UK HABS habitat classification map for the site baseline as informed by a site visit on the 13<sup>th</sup> of May 2025 by assistant ecologist Marie McAvan BSc (Hons) MSc, accompanied by ecologist John Davies BSc (Hons).
- 3.2 Figure 2 presents a summary of Statutory Metric results for the current development proposal.
- 3.3 Appendix One presents the current proposed development scheme used within the Metric calculations.



**Figure 1:** UK HABS Habitat Classification Map Baseline - measured



## 4 Methodology

- 4.1 The Environment Bill (2020) seeks to improve biodiversity through several means, including the introduction of a mandatory requirement for new developments to achieve a minimum of 10% biodiversity net gain, which will be managed as such for a minimum of 30 years after the development has been completed (Environment Bank, 2021). Key parts of the Environment Bill which relate to biodiversity net gain and its delivery are Part 6 Nature and Biodiversity and the supporting Schedule 14, particularly sections 9(3), 13(2), 14(2) and 15.
- 4.2 Development proposals submitted after 12<sup>th</sup> February 2024, with some exceptions, will be expected to achieve a minimum of 10% net gain in site biodiversity value under The Environment Act 2021 (Commencement No. 8 and Transitional Provisions) Regulations 2024. This development predates the mandatory 10% net gain requirement; however, no overall net loss has been requested regarding this development.
- 4.3 The Statutory Biodiversity Metric Tool was used to calculate biodiversity units for baseline and post-development units for the development site, to determine if the proposed development will be likely to achieve net loss, no net loss, or net gain of biodiversity units.
- Individual habitat areas / lengths were rounded to four decimal places, with the minimum mappable unit being 0.0001 hectares. The canopy areas of Individual trees were calculated using the Urban Tree Helper tool included within the metric calculator. Linear habitat features such as hedgerows and ditches are measured in kilometres, where present.
  - Habitat condition indicates the quality of the habitat, either existing or to be achieved, based on the habitat condition assessments using the Statutory Biodiversity Metric – Technical Annex 1: Condition Assessment Sheets and Methodology.
  - Habitats were assessed for their strategic significance at a landscape scale, using information from sources such as Local Plans, Biodiversity Action Plans, and Nature Recovery Areas to determine their significance within a specific landscape. If habitats weren't included within published reports, significance was determined by their contribution to habitat connectivity and green corridors.

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Bower Hill Road  
Oxspring  
Sheffield  
S36 8WZ

4.4 Biodiversity unit calculations are based on the retention and / or enhancement of existing habitats within the proposed scheme design, as well as the creation of new habitats. Biodiversity units for hedgerow and watercourse habitats (linear) are calculated separately from area habitats within the metric.

## 5 Assumptions and Limitations

5.1 Habitat areas are rounded up or down to the nearest whole value, with a minimal mappable unit of 0.0001 hectares. However, the overall total of site habitat area and biodiversity units within the Statutory Metric are calculated and accurate to two decimal places.

5.2 Habitat areas used in the calculations are based on two-dimensional plans and so will not necessarily consider an increase in overall surface area as a result of slopes and banks.

5.3 The site baseline was assessed inside of the recognised growing season, April to September (inclusive), therefore the habitats are required to be condition assessed, as outlined in the Statutory Biodiversity Metric Guide.

## 6 Biodiversity Net Gain

6.1 The total baseline for biodiversity units for the site was calculated at 2.83 area habitat units, and 0.06 linear (hedgerow) units present at the baseline. No watercourse units were present on the baseline. No irreplaceable habitats are present at the baseline.

6.2 The site post-development is calculated to have a total value of 0.45 area habitat units and 0.08 linear units with no watercourse units proposed.



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units (or units of higher distinctiveness) will be required. The remaining units can be of any distinctiveness.

- 8.3 Given the site post development and the areas available for suitable planting, it is considered that fully compensating for these units on site will not be feasible as vegetated gardens cannot be used for additional plantings (DEFRA 2024).
- 8.4 It is considered that with the current proposed scheme, offsetting will be required to achieve the 10% net gain targets for this development. Offsetting can be achieved following agreement with the local planning authority (LPA). Suitable offsetting providers include but are not limited to the LPA, local Wildlife Trusts, or the Environment Bank, who should be consulted to discuss whether offsetting is achievable.
- 8.5 If offsetting is not achievable for the required units, a S106 agreement may be achievable following discussions with the LPA. The calculations in this report are based on target habitat conditions post development and post-management, taking future land use and public access into consideration.
- 8.6 It is recommended that an updated Biodiversity Net Gain report with updated calculations is completed should current development and landscaping proposals change in any way. An updated report will review habitat condition scores of habitats and will consider any changes in a final masterplan.



## References

**Environment Bank (2015)** Biodiversity Impact Calculator – Guidance for Use. Environment Bank.

**Environment Bank (2016)** Biodiversity Accounting – An introduction. Environment Bank.

**Environment Bank (2021)** The Environment Bill and Biodiversity Net Gain Delivery. Available online at <https://www.environmentbank.com/blog/the-environment-bill-and-biodiversity-net-gain-delivery-what-planning-authorities-need-to-know/> (February 2024)

**DEFRA (2024)** The Statutory Biodiversity Metric User Guide

**UK HABS (2023)** The UK Habitat Classification : Habitat Definitions. Version 2.0



**Appendix One:** Proposed development plan – measured.

