

Land off Mill Lane, Whitburn
Biodiversity Net Gain Assessment

July 2026

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1 Introduction

Background to commission

- 1.1 BSG Ecology Ltd. were commissioned October 2024 to undertake a range of survey work including a UK Habitat Survey to inform a Biodiversity Gain Assessment (BGA) for a residential planning application (the 'Site'). This follows ongoing survey work at the Site by BSG since 2022.
- 1.2 This report reflects amendments in landscaping following consultee comments and Local Planning Authority (LPA) feedback received in response to the January 2026 submission (planning reference 260049).

Site description

- 1.3 The Site is approximately 10.7 hectares (ha) in size, and it is located adjacent to the east of Lizard Lane, Whitburn, South Tyneside. To the east of the Site is the A183 and to the north is Kitchener Road. The Site is centred on an Ordnance Survey grid reference (OSGR) of NZ 40564 63396. The location of the Site is shown in **Figure 1, Section 6**.
- 1.4 The Site is a single modified grassland field, managed for haylage. There are no significant field margins, and the boundaries are delineated by dry stone walls or post and wire fencing. Scrub is present along the western boundary.

Project summary

- 1.5 The planning submission is for residential development comprising 205 homes with associated access roads, amenities and green space.
- 1.6 This report is written with reference to the following drawings:
- Mill Lane, Whitburn, Proposed Site Plan. Drawing number: MLLN.PLN.02, revision P1; and
 - Mill Lane Whitburn, Landscape Master Plan, Drawing number: P21-2566_EN_0001 Rev D.
- 1.7 Detailed plans are provided in **Appendix C**.

Purpose of this report

- 1.8 This report provides the details of the BGA undertaken for the proposed development; consideration is given to relevant legislative, planning policy and guidance documents to inform the presentation of the assessment. It is considered that sufficient certainty is given in the assessment to inform local planning authority decision making, on the principle that the biodiversity gain condition can be met, should planning permission be granted.
- 1.9 The biodiversity gain measures proposed are considered to be proportionate, reasonable, locally relevant, and practical to deliver.
- 1.10 BSG Ecology has relied upon the following information in the preparation of this assessment:
- The proposed planning boundary and development layout of the Site: Mill Lane, Whitburn, Proposed Site Plan. Drawing number: MLLN.PLN.02, revision P1;
 - Proposed species mixes and planting provided in the landscape master plan, Drawing number: Landscape Master Plan, Drawing number: P21-2566_EN_0001 Rev D (**Appendix C**);
 - Habitat survey data, presented on **Figure 1** and provided in the Ecological Impact Assessment (EclA) (BSG Ecology, 2026a), arising from the survey work undertaken on 20 May 2025 to inform the pre-development baseline habitat values, the date of this survey is considered to be 'the relevant date'; and

- The published Statutory Biodiversity Metric (Defra, 2025a) and the associated User Guide (Defra, 2025b) applicable at the date of the biodiversity gain assessment, as referred to in the Methodology section of this report.

Personnel

- 1.11 The habitat survey and condition assessment were undertaken by Senior Ecologist Hannah Breadin ACIEEM. Hannah has worked as a professional ecologist for over 11 years, is a competent botanical surveyor with FISC Level 4, and has completed numerous habitat surveys across the north-east of England.
- 1.12 The Metric and report were compiled by Senior Ecologist Hannah MCIEEM. Hannah has worked in ecological consultancy since 2017 and has completed a variety of Biodiversity Net Gain assessments across the region in this time. The updates were also undertaken by Hannah Weir previously Shone.
- 1.13 The final report has been technically reviewed by Claire Dewson, CIEEM, Associate Director, for BSG Ecology. Claire has worked as a professional ecologist for over 20 years and has contributed to many biodiversity net gain surveys and reports as reviewer and author.

2 Methodology

Desk and field assessment

Desk study

- 2.1 A desk based scoping assessment was undertaken including:
 - a review of online aerial photographs (such as Google Earth, Bing Maps, and Ordnance Survey Maps) to provide useful supplementary information on the presence of habitats and habitat linkages at the landscape level; and
 - a planning policy review of South Tyneside's Local Plan and Local Nature Recovery Strategy (LNRS).
- 2.2 Plan P21-2566_EN_0001 Rev D by Pegasus Group (see **Appendix C**) is the planting schedule plan and includes information about how planting types shown on this drawing correlates to the habitat types referenced in this report and the Metric, provided post-development habitat areas and lengths based on this drawing. Further analysis of areas and lengths using GIS software was also undertaken by BSG Ecology and the final measurements for input to the Metric were agreed with the client and appropriate members of the project team.
- 2.3 The biodiversity gain assessment identifies a measure of biodiversity change using the Statutory Biodiversity Metric (the metric) (Defra, 2025a) and the associated User Guide (Defra, 2025b) and other relevant guidance, to calculate the biodiversity gain outcome of the development.
- 2.4 The metric is a tool used to measure biodiversity losses and gains in relation to habitats. The metric has been used to calculate the biodiversity value of the Site before the development and to provide a provisional value after the development.
- 2.5 The purpose of the metric values after the development is to provide sufficient comfort and certainty to the local planning authority in their consideration of the development that biodiversity gain can be achieved in principle for this development i.e. the biodiversity gain condition can be met. The final metric outcome is subsequently calculated and included in the Biodiversity Gain Plan (BGP) which is to be submitted following planning consent to inform the discharge of the biodiversity gain condition.
- 2.6 The metric enables determination of whether the development is likely to result in losses or gains in biodiversity unit terms. The metric is used to numerically quantify the value of biodiversity at a site and can be used to inform an evidence base on the extent of required mitigation for a development, the extent of residual biodiversity impact and, if necessary, to identify the amount of required compensation. The Environment Act 2021 and associated secondary Regulations (SI2024 No's 44-50) together require biodiversity gain of 10% as a general condition of planning permission.
- 2.7 The statutory biodiversity metric condition assessment sheet for grassland is provided in **Appendix B**. The results of the Statutory Biodiversity metric Calculator Tool are provided in a separate Excel spreadsheet. The headline results are presented in **Appendix A**.
- 2.8 Reference is made to the following in this assessment:
 - The Biodiversity Gain Requirements (Town and Country Planning) (Modifications and Amendments) (England) Regulations 2024 (SI No. 50).
 - National planning policy guidance, as set out within the NPPF, in relation to securing measurable biodiversity gain through development proposals.
 - The South Tyneside Local Plan 2023-2040 (South Tyneside Council 2024).
 - South of Tyne and Wear Local Nature Recovery Strategy. Consultation Draft. (Nature Plan 2025)
 - The biodiversity net gain good practice principles (CIEEM, CIEMA, 2019)

- 2.9 The interaction between the NPPF mitigation hierarchy and the biodiversity gain hierarchy is also considered.
- 2.10 The results of the metric and the habitat condition assessments are provided in **Appendix A** and **B** respectively.
- 2.11 The post-development calculation is based on the desired developable area as shown on the plan produced by Pegasus Group (**Appendix C**) taking into account any habitat reinstatement. The habitats to be provided were based on a series of assumptions (described in Section 3) and are shown on **Figure 2, Section 6**. The post-development scenario for onsite habitat creation has been inputted into the calculator to determine the change in biodiversity units as a result of the proposed development of the Site.

Assumptions

- 2.12 Professional judgement has been applied to suggest realistic habitat type/s and area (in ha) / length (in m) of habitat/s that could potentially be created, what condition they could achieve and how they would (broadly) be maintained.
- 2.13 It is assumed that the drawings cited in this report, as supplied to BSG Ecology, can be relied upon to inform the post development outcome of the metric and therefore the biodiversity gain assessment.

Consideration of potential limitations

- 2.14 There are no limitations associated with this assessment or the habitat survey used to inform it, which was conducted in May 2025, within the peak botanical survey season.

3 Results and Recommendations

- 3.1 This section presents the results of the field surveys and the outcome of the Metric taking into account current local and national planning policy guidance and the post-development scenario. Habitat enhancement and habitat creation options that could realistically be successfully delivered are proposed.
- 3.2 The metric and habitat condition assessment data using relevant UK Habitat classification criteria are provided at **Appendix A** and **B** respectively. A plan of the baseline habitats is shown in **Figure 1**. The baseline habitats within the Site are detailed below.

On-Site baseline habitat survey results

Modified grassland (g4)

- 3.3 The Site predominantly comprises modified grassland managed for hay production, with isolated hawthorn *Crataegus monogyna* and bramble *Rubus fruticosus* agg. scrub along its western boundary. For the purposes of this BNG assessment, the scattered scrub is assessed in cohesion with the modified grassland, rather than as a standalone entity. The extent of scattered scrub is below three individual plants per 0.04 ha and therefore does not qualify for the use of a secondary code or distinct habitat type.
- 3.4 The modified grassland field is dominated (over 80%) by perennial rye grass *Lolium perenne* with occasional Yorkshire fog *Holcus lanatus*, cock's foot *Dactylis glomerata* and soft brome *Bromus hordeaceus*. Herbs make up less than 5% of the sward, with cow parsley *Anthriscus sylvestris*, common sorrel *Rumex acetosa* and white clover *Trifolium repens* recorded rarely. No bare ground was recorded. Quadrats were not taken due to the species poor nature of the area and the overwhelming dominance of perennial rye grass.
- 3.5 A 1 m strip of taller sward grassland, not managed with the main grass crop is present at the field margins. This has the same species composition as the main field and also fits the definition of modified grassland.
- 3.6 Both the main grassland and the margins achieve **poor** condition. This is primarily due to the failure of essential criteria A; the sward has fewer than six species per m². A full break down of condition criteria is provided in **Appendix B**.

Mixed scrub (h3h)

- 3.7 A small stand of mixed scrub, composed of hawthorn, bramble, rose *Rosa canina* and blackthorn *Prunus spinosa* is present onsite at the south-western boundary (although hawthorn and bramble dominate). The scrub may be remnant hedgerow but is considered to be too horizontally gappy to fit the UK Habitat definition (UK Hab Ltd., 2023) and is therefore classified as mixed scrub.
- 3.8 The scrub is of **poor** condition. This is due to the lack of a developed edge, ecotone with adjacent habitat and clearings, the homogenous age of all plants in the stand and the low species richness.

The relevant date for the pre-development

- 3.9 It is considered that the baseline environment, as assessed within the metric, will not have changed between the survey date and the application submission date due to the short timescale between the dates and since there was no known change of management or ownership on the land during this period.
- 3.10 The proposed relevant date for this proposed development is therefore deemed to be 20 May 2025, the date of the survey.

Irreplaceable habitats

- 3.11 No irreplaceable habitats¹ have been recorded within the Site.

Strategic significance and Local Nature Recovery Strategies

- 3.12 At time of writing, the South Tyneside LNRS is out for public consultation as draft and not yet finalised. However, as advised by the LPA ecologist, the LNRS has been used to determine strategic significance within this assessment. The Site falls (fully or partially) into the following LNRS measures:
- GP1-Md: Undertake the creation of biodiverse grasslands where appropriate and soil conditions allow, targeting the expansion, buffering and connecting of grasslands of high conservation value;
 - GP1-Mc: Undertake the buffering of priority grasslands through the restoration, enhancement and long-term positive management of adjoining semi-natural habitat;
 - RP1-Mc: Undertake the creation of new biodiverse water-dependant habitats where conditions allow, prioritising opportunities to expand, buffer and connect existing high-value wetland and riparian habitats;
 - FP-1Ma: Create, restore, and manage infield and boundary features that enhance farmland biodiversity, supporting invertebrates (including pollinators), birds, and mammals, for example, trees and hedgerows, flower-rich field margins, and beetle banks;
 - SP1-BMd: Create, Enhance and Manage Key Habitats — Undertake the targeted creation, enhancement and management of high-value habitats for priority bird species, including: - wet woodland and scrub with standing and fallen deadwood - species-rich native hedgerow with hedgerow trees – wetlands and wet grassland – inter-tidal mudflats and saltmarsh;
 - SP1-BMe: Reduce Recreational Disturbance — Minimise recreational disturbance to high-value breeding, foraging and resting sites crucial to the successful recovery of priority bird species through: - public education and awareness (e.g. signage, interpretation, and direct engagement) – installation of temporary or permanent physical barriers (e.g. fencing);
 - SP1-BMg: Support Farmland Birds — Work collaboratively with farmers and land managers to reverse farmland bird declines by: - raising awareness of effective recovery practices, such as retaining winter stubbles, using conservation headlands and wild bird cover mixes, and managing native hedgerows sensitively – promoting and supporting the uptake of agri-environment schemes and other funding initiatives to expand bird-friendly habitats and enhance the resilience and diversification of farm businesses and
 - SP1-Amc: Create New Habitat — Create new ponds, pond clusters, terrestrial habitats, and refugia and hibernacula in locations that will: support the expansion of existing herptile populations, facilitate the formation of meta-populations, and reduce habitat fragmentation and improve ecological connectivity.
- 3.13 The applicability of each measure and strategic significance allocation is concluded as follows:
- GP1-Md: all proposed grassland creation onsite is of modified grassland, higher distinctive grassland creation cannot be proposed due to soil uncertainty and the nature of the development. GP1-Md is not applicable;
 - GP1-Mc: No priority grassland is present onsite at baseline or proposed in line with the development. GP1-Mc is not applicable;
 - RP1-Mc: Creation of water-dependent habitats onsite is limited to the SUDS, whilst grassland in this area is likely to be seasonally wet, it does not connect to any existing wetland or riparian habitat. RP1-Mc is not applicable;
 - FP-1Ma: the Site will be moved out of arable land use. FP-1Ma is not applicable;
 - SP1-BMd: no key habitats identified will be created or enhanced. Whilst scrub will be created, this is limited in extent and unlikely to accumulate deadwood due to its residential setting. Hedgerow

¹ [The Biodiversity Gain Requirements \(Irreplaceable Habitat\) Regulations 2024](#)

creation is also proposed, whilst native, this is unlikely to become species rich or meet the threshold required due to its residential setting and required ongoing management. SP1BMd is not applicable.

- SP1-BMe: The development is residential. SP1-BMe is not applicable;
- SP1-BMg: the Site will be moved out of arable land use. SP1-BMg is not applicable; and
- SP1-Amc: Creation of water-dependent habitats onsite is limited to the SUDS; grassland onsite will all be modified and in close proximity to the residential area. Additionally, no known reptile or amphibian populations were identified onsite. SP1-Amc is not applicable.

- 3.14 Overall, LNRS measures and definitions for high strategic significance are not met, proposed interventions are not consistent with measures proposed by the LNRS for the location. Consequently, both baseline and post-development strategic significance are recorded as 'low'.

Application of the biodiversity gain hierarchy

- 3.15 The biodiversity gain hierarchy has been adhered to within the proposed development by the following principles.

- 3.16 On-Site habitats:

- Avoidance: There are no higher distinctiveness habitats onsite that have needed to be avoided. There are low (modified grassland) and medium (mixed scrub) distinctiveness habitats onsite only. Protection measures will be implemented to ensure that the medium distinctiveness habitats within the Site and habitats in the wider landscape will be protected from harm. Only low distinctiveness habitats will be lost to the Development.
- Mitigation: Outside of the development footprint, low distinctiveness modified grassland will be created in a better condition than that at baseline. This will mitigate for modified grassland losses within the development footprint.
- On-Site habitat enhancement: All scrub onsite will be retained and enhanced to moderate condition.
- On-Site habitat creation: The creation of both amenity and more species diverse grassland, as well as planting trees, scrub and hedgerows will contribute to the overall biodiversity unit value of the Site.
- Off-Site habitat creation: No offsite land is available in this instance.
- Biodiversity unit purchase: Required to ensure a 10% net gain is achieved.

- 3.17 Draft policy 35 (Delivering Biodiversity Net Gain) in the emerging Local Plan sets out the Council's approach to the delivery of Biodiversity Net Gain. It requires developments to use reasonable endeavours to secure gains in the most sequentially preferable location. This scheme has looked to accommodate as much gain as commercially possible onsite, whilst ensuring the proposed enhancements have the opportunity to establish and mature and deliver both the ecological and biodiversity benefits. They also tie in with the overall landscape strategy to ensure that the development will integrate sensitively within its landscape context.

- 3.18 As stressed by the Council during the ongoing Local Plan examination hearings, and set out in the supporting evidence base, the delivery of BNG onsite cannot be viewed in isolation and needs to be considered alongside other important planning requirements. These include (amongst others) the chronic need for housing, the efficient use of land, inclusion of SuDS and high-quality landscaping, highway infrastructure and connections with the surrounding area. Therefore, the Council recognises the value of delivery of some habitat units onsite, alongside offsite delivery through credit purchase. This approach is consistent with the national policy and guidance on the matter.

Interaction between biodiversity gain hierarchy and NPPF mitigation hierarchy

- 3.19 The biodiversity gain and NPPF mitigation hierarchies have been considered together from the design stage onwards. Specifically, there are no habitats affected by the development with a habitat

distinctiveness scoring more than 2 and it is considered that unavoidable habitat losses to facilitate the development have been adequately mitigated with the details included in a separate Ecological Impact Assessment (BSG Ecology 2026a) which assesses the potential ecological impacts of the proposed development and sets out avoidance, mitigation and compensation measures in line with the NPPF mitigation hierarchy.

- 3.20 Opportunities have been taken to incorporate biodiversity enhancements in and around the development for both habitats and protected species. Taking account of the habitat measures within the EclA report and this BGA report, it is considered that sufficient information is provided to the local planning authority to inform their review of whether the biodiversity gain condition is capable of being discharged and whether the associated Biodiversity Gain Plan may be approved in due course.

Significant onsite enhancements

- 3.21 The habitat enhancement and creation proposed onsite are classified as significant due to both their extent and proportion of habitat units generated.

Habitat management and monitoring plan

- 3.22 As habitat creation and enhancement onsite is considered significant, a site level habitat management and monitoring plan (HMMP) will be required. The HMMP will detail:
- How you plan to manage the off-site gains or significant on-site enhancements, taking into account any legal restrictions and requirements;
 - When and how you'll monitor habitats;
 - When and how you'll report monitoring results;
 - When and how you'll review management proposals; and
 - How you'll change the way you manage the habitat, so that you achieve the habitats or wider outcome.

Consideration of Biodiversity Net Gain Good practice principles for development

- 3.23 On reference to Ciria CIEEM IEMA (2019) Biodiversity Net Gain Good practice principles for development, the principles summarised in **Table 1** were considered during the development design, completion of ecology related desk and field surveys and the biodiversity gain assessment.

Table 1: Biodiversity gain – the application of good practice principles for development

Number	Summary heading of principle	Rationale
Principle 1	Apply the mitigation hierarchy	A separate EclA assesses the potential ecological impacts of the proposed development and sets out avoidance, mitigation and compensation measures in line with the mitigation hierarchy.
Principle 2	Avoid losing biodiversity that cannot be offset by gains elsewhere	No irreplaceable habitats are present on-Site. There is no loss of higher distinctiveness habitats. Habitat losses will be offset through habitat creation on-Site and enhancement and purchase of credits.
Principle 3	Be inclusive and equitable	Project liaison has been undertaken with the project team. No consultation with third parties has been undertaken or considered to be necessary.
Principle 4	Address risks	The use of the Statutory Biodiversity Metric embeds risks associated with difficulty, spatial multipliers and time to target condition. Any habitat creation or retention that may require special measures to ensure effective delivery of the habitats will be

		subject to procedures specified in a HMMP. It is considered that realistically achievable habitats have been targeted within the post-development plan.
Principle 5	Make a measurable net gain contribution	The form of 'measurement' has been to apply the Statutory Biodiversity Metric to provide biodiversity unit values as far as reasonably possible.
Principle 6	Achieve the best outcomes for biodiversity	The habitat creation measures proposed are considered to be appropriate for the environment and setting and proportionate to the nature, extent and type of development.
Principle 7	Be additional	Additional tree planting has been provided as part of the development layout. It has not been possible to create habitats of a higher distinctiveness as part of the development layout, primarily due to its residential use.
Principle 8	Create a net gain legacy	The legacy of the habitat enhancement has been considered by ensuring the habitats are suitable for the landscape and suitable for their context within the development, with consideration to potential recreation impacts and access for future management.
Principle 9	Optimise sustainability	The choice of planting for the proposed habitats is considered to be appropriate for the Site and the use of the Site.
Principle 10	Be transparent	The author of this biodiversity gain assessment has sought to provide clear and transparent information throughout, including the provision of rationales and relevant commentary, to assist the reader, in their review of the submission.

Biodiversity gain calculation

- 3.24 **Table 2** below summarises the baseline habitats, their areas and the results of the habitat condition assessments within the Site. **Appendix B** presents the detailed results of the habitat condition assessments. No linear habitats are present onsite.

Table 2: Baseline habitat types and conditions

UKHab	Statutory Metric habitat	Strategic Significance	Habitat condition	Area (ha)	Habitat units
Modified grassland	Modified grassland	Low	Poor	4.302	8.60
Modified grassland	Modified grassland	Low	Poor	6.283	12.57
Mixed scrub	Mixed scrub	Low	Poor	0.025	0.10
TOTAL HABITAT AREA				10.61	21.27
SITE AREA (INC INDIVIDUAL TREES)				10.61	

- 3.25 Post-development habitats detailed in **Table 3** and **Table 4** will be created. Habitat enhancement is detailed in **Table 5**. The post-development habitats are presented on the landscape masterplan (Drawing number: P21-2566_EN_0001 Rev D) and detailed below, including their target conditions.

Table 3: Post-development habitat creation

Biodiversity Metric habitat	Distinctiveness	Area (ha)	Target condition	Strategic significance	Notes and/or justification	Biodiversity units
Modified grassland	Low	0.7087	Poor	Low	Open space amenity/ mown grass, including areas with bulb planting. Poor condition to reflect species mix, proposed maintenance regime and anticipated disturbance through recreational use.	1.368
Modified grassland	Low	1.271	Moderate	Low	Moderate condition reflects the species mix, tree shading and residential setting.	4.409
Mixed scrub	Medium	0.2208	Good	Low	Native scrub mix on the north of the Site boundary, small grassland glades to be incorporated.	1.855
Mixed scrub	Medium	0.0199	Moderate	Low	Native scrub mix in other areas within the Site.	0.133
Artificial unvegetated, unsealed surface	V.Low	0.0149	N/A - Other	Low	Footpaths (timber edge crushed stone) and trail trim equipment.	0.000
Developed land; sealed surface	V.Low	5.2104	N/A - Other	Low	Developed land, including houses, footpaths and access roads.	0.000
Introduced shrub	Low	0.1914	Condition Assessment N/A	Low	Amenity shrub planting and ornamental shrubs and herbaceous planting.	0.369
Sustainable drainage system	Low	0.4539	Good	Low	SuDS. Condition reflects proposed species mix and knee rail to be installed surrounding the basin to deter public access.	1.527
Vegetated garden	Low	2.5022	Condition Assessment N/A	Low	Front and rear gardens.	4.829
Urban tree	Medium		Poor	Low	263 individual trees planted in POS areas. Variety of species proposed; both native and ornamental.	2.999
Total Habitat Creation Units						17.49

Table 4: Post-development habitat retention and enhancement

Biodiversity Metric habitat and (Distinctiveness)	Area (ha)	Baseline condition	Target condition	Strategic significance	Notes and/or justification	Biodiversity units
Mixed scrub	0.025ha	Poor	Moderate	Low	Enhancement of existing scrub through additional planting of native species and management to create an ecotone with adjacent grassland.	0.18
Total Habitat Enhancement Units						0.18

Table 5: Post-development hedgerow creation

Biodiversity Metric habitat	Distinctiveness	Length (km)	Target condition	Strategic significance	Notes and/or justification	Biodiversity units
Native hedgerow	Low	0.086	Moderate	Low	Single species native hedgerow	0.29
Native hedgerow	Low	0.044	Moderate	Low	Mixed species native hedgerow	0.15
Native hedgerow with trees	Medium	0.096	Moderate	Low	Mixed species native hedgerow with trees	0.54
Native hedgerow with trees	Medium	0.052	Poor	Low	Single species native hedgerow with trees	0.20
Native hedgerow	Low	0.028	Moderate	Low	Mixed species native hedgerow	0.09
Native hedgerow with trees	Medium	0.231	Moderate	Low	Mixed species native hedgerow with trees	1.29
Native hedgerow	Low	0.05	Poor	Low	Single species native hedgerow	0.10
Native hedgerow	Low	0.061	Moderate	Low	Mixed species native hedgerow	0.20
Native hedgerow	Low	0.014	Moderate	Low	Mixed species native hedgerow	0.05
Native hedgerow with trees	Medium	0.076	Poor	Low	Single species native hedgerow with trees	0.29
Native hedgerow with trees	Medium	0.062	Poor	Low	Single species native hedgerow with trees	0.24

Native hedgerow with trees	Medium	0.249	Moderate	Low	Mixed species native hedgerow with trees	1.39
Native hedgerow	Low	0.049	Moderate	Low	Mixed species native hedgerow	0.16
Native hedgerow with trees	Medium	0.017	Moderate	Low	Mixed species native hedgerow with trees	0.10
Native hedgerow with trees	Medium	0.02	Moderate	Low	Mixed species native hedgerow with trees	0.11
Total Hedgerow Creation Units						5.21

Biodiversity Gain Metric outcome

Results Summary

- 3.26 The Statutory Biodiversity Metric has been used to quantify biodiversity gain. With the incorporation of the above habitats the 'habitat unit' and 'hedgerow unit' scores have been calculated. There are no watercourse units associated with the Site. Habitat unit results are as follows:
- Existing Site baseline = 21.27 habitat units.
 - Post-development Site outcome = 17.67 habitat units.
 - Combined change in habitat units = -3.6 habitats units, equivalent to a **-16.917%** net gain.
- 3.27 The proposed habitat outcomes are considered to be achievable, can be legally secured and they are appropriate to the location and setting of the Site and the locally surrounding habitats.
- 3.28 There is an overall deficit of 5.72 habitat units required to reach a 10% net gain.
- 3.29 Hedgerow unit results are as follows:
- Existing Site baseline = 0 hedgerow units.
 - Post-development Site outcome = 5.21 hedgerow units.
 - Combined change in habitat units = +5.21 hedgerow units.
- 3.30 As the baseline hedgerow score is zero, it is not possible to calculate a net gain in hedgerow units. The 5.21 hedgerow unit increase satisfies the 10% net gain requirement.
- 3.31 A summary of results is provided in **Appendix A** with the full calculation provided in a separate excel document.

Trading rules

- 3.32 Trading rules are not satisfied as the change in habitat units do not achieve the mandatory 10% net gain, therefore alternate options are required to achieve the mandatory 10% net gain. At the time of writing there is no off-site land available for habitat creation to achieve the additional units required and so, as a last resort, the remaining units required will be purchased. The following options are available:
- Contact the Local Planning Authority (LPA) to discuss the potential for off-site unit allocation in line with Local Nature Recovery Strategies (LNRS) or similar with an allocated responsible body;
 - A private unit supplier (preferably within the same LPA) may be approached; and
 - Finally, when all other options are exhausted, the purchase of statutory biodiversity credits will be considered.
- 3.33 The development has a shortfall of 5.72 habitat units. Trading rules specifically fail due to the loss of modified grassland onsite, therefore, A1 tier low distinctiveness units are required. A greater total of units may be required if no units within the same LPA or National Character Area are available.
- 3.34 As a last resort, Statutory credits may be considered. The price is set high to ensure they do not compete with the development of the private market. A spatial multiplier is applied to statutory credits; two credits are required for every one biodiversity unit that requires compensating for. As is, the development has a unit shortfall of 11.45 A1 tier low distinctiveness units (accounting for the spatial multiplier associated with Statutory credits).

4 Summary

- 4.1 Overall, the habitat creation and enhancement post-development will deliver a --16.91% net gain in habitat units and a +5.21 hedgerow unit gain (calculation of a % net gain in hedgerows not possible due to a null baseline score). There is a total shortfall of 5.72 habitat units. The purchase of units will be required to achieve the mandatory 10% net gain in habitat units and achieve an overall biodiversity net gain.

5 References

BRIG (2011). *UK Biodiversity Action Plan – Priority Habitat Descriptions*. JNCC, Peterborough.

BSG Ecology (2026a) Land off Mill Lane, Ecological Impact Assessment. January 2026.

Butcher, B. et al. (2020). The UK Habitat Classification User Manual Version 1.1 at <http://www.ukhab.org/>.

CIEEM, IEMA and CIRIA (2019) Biodiversity Net Gain Good Practice principles for development.

Defra (2025a) Statutory Biodiversity Metric, available online: <https://www.gov.uk/government/publications/statutory-biodiversity-metric-tools-and-guides> last accessed: October 2025.

Defra (2025b) Statutory Biodiversity Metric: User Guide. Natural England.

Defra (2025c) Statutory Biodiversity Metric, Technical Annex 1- Condition Assessment Sheets and Methodology. Natural England.

Defra (2024c) Make on-site biodiversity gains as a developer. 27 February 2024 [online] Available at: <https://www.gov.uk/guidance/make-on-site-biodiversity-gains-as-a-developer> Accessed 4 April 2024.

National Planning Policy Framework (NPPF). Ministry of Housing, Communities and Local Government, London.

Nature Plan (2025) South of Tyne and Wear Local Nature Recovery Strategy. Consultation Draft. November 2025. Available online : <https://www.natureplan.org.uk/article/35469/Public-Consultation-Report> . Last accessed June 2026.

UKHab Ltd (2023) UK Habitat Classification Version 2.0.

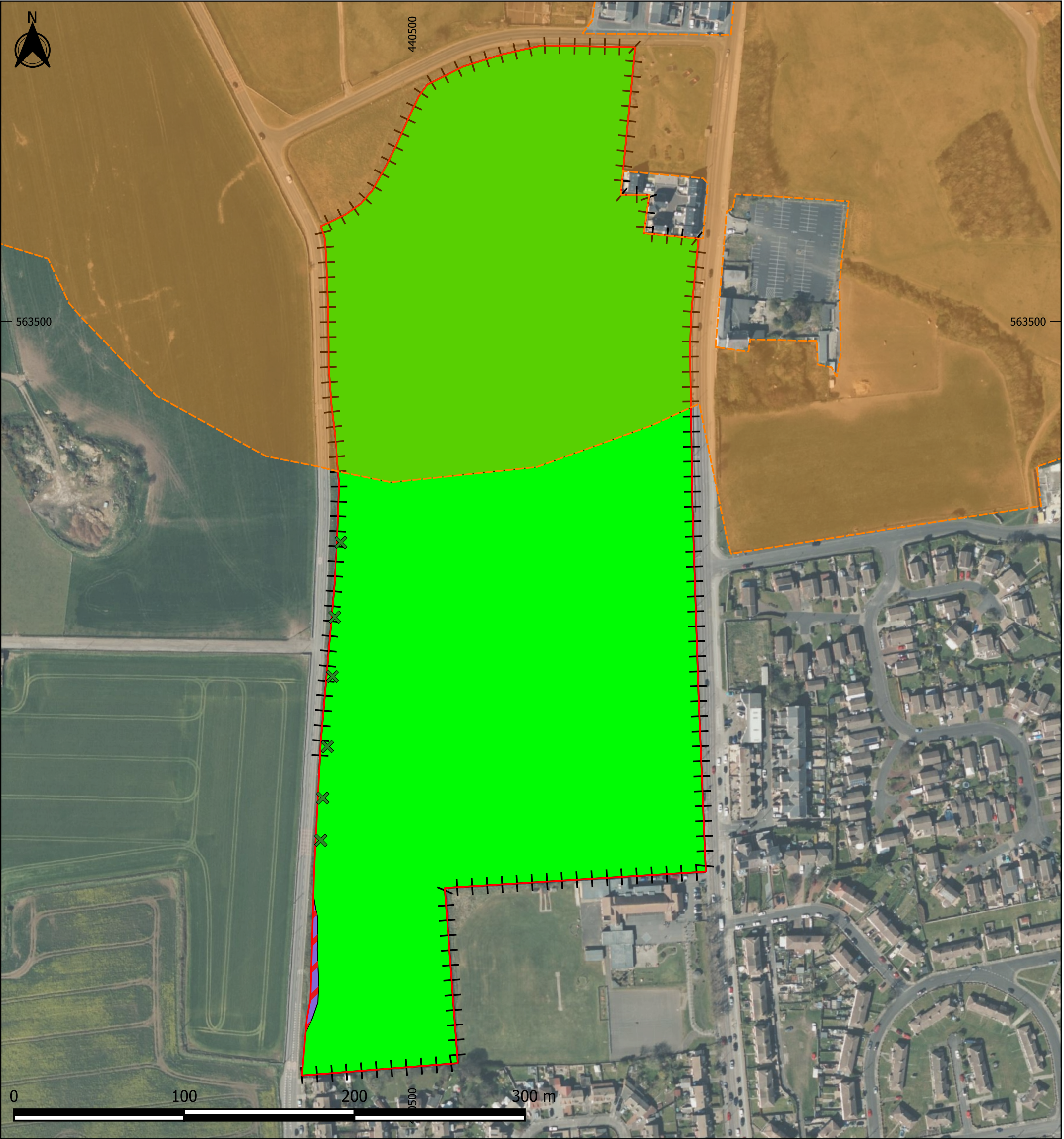
South Tyneside Council (2024) South Tyneside Local Plan, Available online <https://publications.southtyneside.gov.uk/plans/local-plan-2023-2040/> Last accessed: October 2025.

6 **Figures**

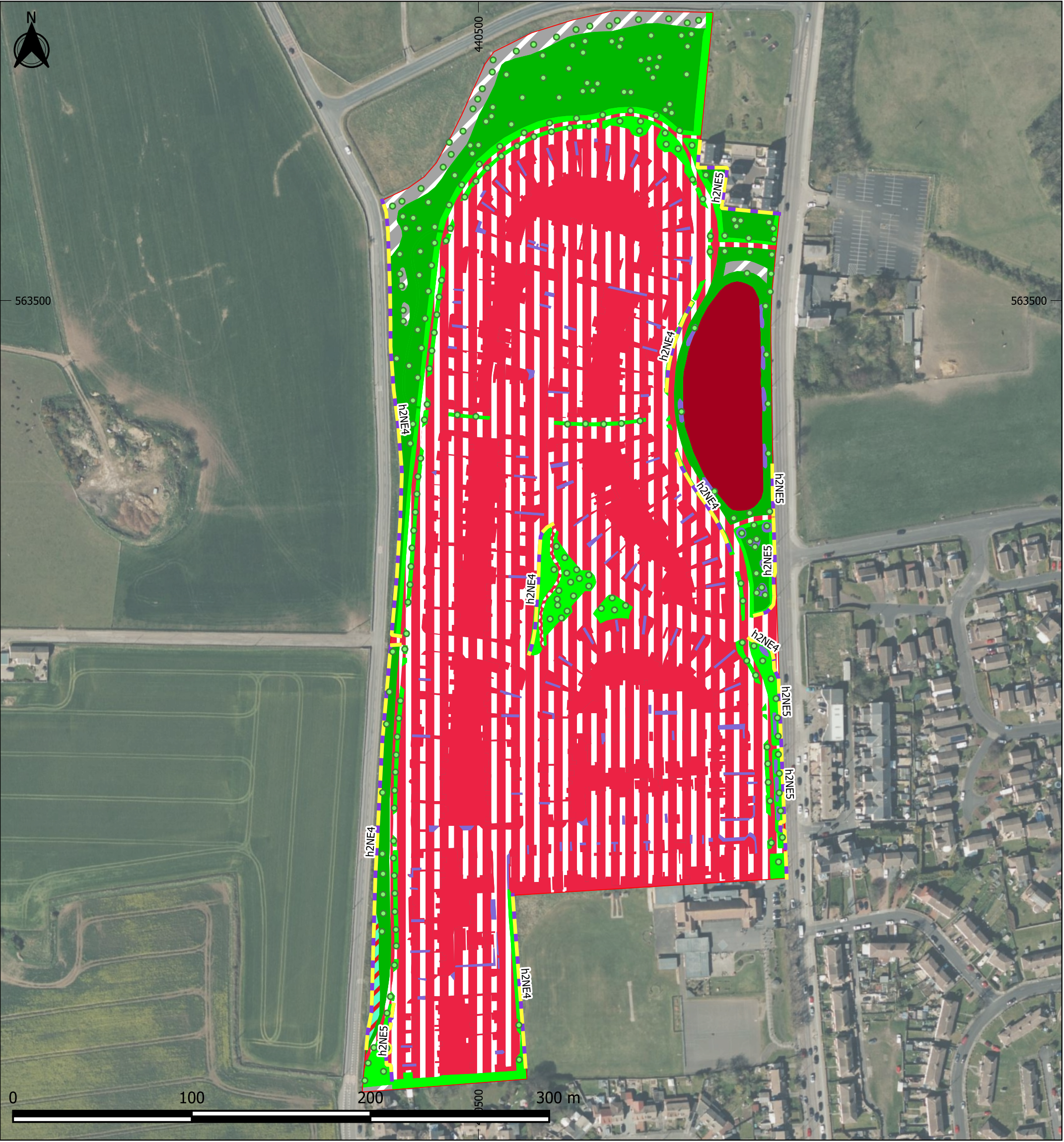
(Overleaf)

Figure 1: Baseline Habitats

Figure 2: Post-Development Habitats



- Legend
- Scattered scrub
 - Fence
 - Mixed scrub
 - Modified grassland
 - Wildlife corridor
 - Site boundary



OFFICE: NEWCASTLE
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JOB REF: P26-405

PROJECT TITLE
LAND OFF MILL LANE – RESUBMISSION

DRAWING TITLE
Figure 2: Post Development Habitat Plan

DATE: 10/07/2026
DRAWN: MZ
CHECKED: HS
APPROVED: HS
SCALE: 1:2,100
VERSION:1.1

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Projection: OSGB 1936/British National Grid - EPSG 27700

Sources: BSG Ecology survey data

- Legend
- | | |
|--|---|
| Proposed Small Urban Tree | Mixed scrub (Created) |
| Native Hedgerow (h2NE5) | Modified grassland (Moderate condition) |
| Native Hedgerow with trees (h2NE4) | Modified grassland (Poor condition) |
| Artificial unvegetated, unsealed surface | Sustainable drainage system |
| Developed land; sealed surface | Vegetated garden |
| Introduced shrub | Site boundary |
| Mixed scrub (Enhanced) | |

Appendix A: BNG Result Summary

On-site baseline	Area habitat units	21.27	
	Hedgerow units	0.00	
	Watercourse units	0.00	
On-site post-intervention (Including habitat retention, creation & enhancement)	Area habitat units	17.67	
	Hedgerow units	5.21	
	Watercourse units	0.00	
On-site net change (units & percentage)	Area habitat units	-3.60	-16.91%
	Hedgerow units	5.21	N/A
	Watercourse units	0.00	0.00%
Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Area habitat units	-3.60	
	Hedgerow units	5.21	
	Watercourse units	0.00	
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	Area habitat units	-16.91%	
	Hedgerow units	N/A	
	Watercourse units	0.00%	
Trading rules satisfied?		No - Check Trading Summaries ▲	

Unit Type	Target	Baseline Units	Units Required	Unit Deficit
Area habitat units	10.00%	21.27	23.40	5.72
Hedgerow units	10.00%	0.00	0.00	0.00
Watercourse units	10.00%	0.00	0.00	0.00

Appendix B: Habitat Condition Assessments

Grassland (Low Distinctiveness)									
Parcel No.	Habitat	Condition	A: There are 6-8 vascular plant species per m2 present, including at least 2 forbs.	B: Sward height is varied	C: scrub accounts for less than 20% of total grassland area.	D: Physical damage is evident in less than 5% of total grassland area.	E: Cover of bare ground is between 1% and 10%, including localised areas	F: Cover of bracken Pteridium aquilinum is less than 20%	G: There is an absence of invasive non-native plant species
Main Site	g4 - Modified grassland	Poor	Fail	Fail	Pass	Pass	Pass	Pass	Pass
Margins	g4 - Modified grassland	Poor	Fail	Pass	Pass	Pass	Pass	Pass	Pass

Mixed Scrub						
Habitat	Condition	A	B	C	D	E
h3h - Mixed scrub	Poor	No	No	Yes	No	No
A: Parcel was good example of its habitat type. B: Seedlings, saplings, young shrub and mature all present. C: Absence of Schedule 9 invasives D: Well-developed edge. E: Clearings, glades or rides present, with sheltered edges.						

Appendix C: Landscape Masterplan

(Overleaf)

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- KEY**
- Site boundary
- Blue line boundary
- EXISTING LANDSCAPE FEATURES**
- Trees/vegetation to be retained
- Hedgerow to be retained
- Root Protection Area (RPA)
- Existing vegetation to be removed
- Public Right of Way (PROW)
- Existing stone walling to be repaired
- Existing agricultural context views
- Existing cycle routes

- PROPOSED LANDSCAPE FEATURES**
- POS trees (individual and hedgerow)
- Feature trees
- Plot trees
- Single species native hedgerow
- Mixed species native hedgerow
- Ornamental hedgerow mix
- Native mixed shrubs (5+ woody species)
- Glades within native shrubs
- Ornamental/amenity planting to POS
- Indicative ornamental groundcover, shrubs & herbaceous planting
- Species rich meadow grass suitable for location (Emorsgate EM3)
- Species rich amenity/mown grass (Emorsgate EL1)

- Mown paths and verges/varied sward height
- Species rich SuDS grass (Emorsgate EM8)
- Front garden turf (or gravel in areas of unsuitable growth)
- Development plot rear garden grass seed
- Bulb planting
- Footpath - timber edged crushed stone
- Indicative location of LEAP/LAP
- Indicative location of trim trail equipment
- Bow top play railings with 2no. gates TBC
- Timber knee rail 450mm high
- Principle circulation routes
- Green corridor
- Indicative bench location

INDICATIVE PLANT SCHEDULE

Below is an indicative schedule of plants which may be used, amongst others. Exact plant location, species and specification will be determined at the detailed soft landscape design phase.

Feature Trees (POS)

Planted as Extra Heavy Standard 14-16cm girth

Acer freemanii 'Autumn Blaze'
Acer platanoides 'Emerald Queen'
Acer rubrum 'October Glory'
Aesculus hippocastanum
Castanea sativa
Pinus sylvestris
Populus tremula
Quercus palustris

Trees (POS)

Planted as Heavy Standard 12-14cm girth

Acer campestre
Alnus glutinosa
Carpinus betulus
Fagus sylvatica
Gleditsia triacanthos
Pinus sylvestris
Prunus avium
Pyrus calleryana 'Chanticleer'
Quercus robur
Sorbus torminalis
Tilia cordata 'Streetwise'
Ulmus 'New horizon'

Native Trees (within native shrub buffer)

Planted as Standards 8-10cm girth

Acer campestre
Alnus glutinosa
Carpinus betulus
Pinus sylvestris
Prunus padus
Quercus robur
Sorbus aucuparia

Street Trees (development edge and verges)

Planted as Heavy Standard 12-14cm girth

Acer campestre 'Streetwise'
Prunus 'Sunset Boulevard'
Pyrus calleryana 'Chanticleer'
Sorbus aria 'Majestica'
Tilia cordata 'Streetwise'

Plot Trees (to front gardens)

Planted as Heavy Standard 12-14cm girth

Acer griseum
Malus 'Evereste'
Prunus 'Snow Goose'
Prunus subhirtella 'Autumnalis'
Sorbus 'Olympic Flame'

Native Scrub

Native shrub plants B, 60-80cm height; planted at 15m centres on even staggered grid

Species	%
Crataegus monogyna	15
Cornus sanguinea	10
Corylus avellana	15
Hippophae rhamnoides	5
Ilex aquifolium	5
Malus sylvestris	10
Prunus spinosa	15
Rosa canina	5
Viburnum opulus	10
Ulex europaeus	10

Native Hedgerow

Native plants B, 60-80cm height; planted in double staggered row

Species	%
Crataegus monogyna	30
Corylus avellana	15
Ilex aquifolium	5
Ligustrum vulgare	10
Prunus spinosa	20
Sambucus nigra	5
Ulex europaeus	5
Viburnum opulus	10

Ornamental /Single Species Hedgerow (to development edges and front gardens)

Carpinus betulus
Escallonia 'Apple Blossom'
Escallonia 'Iveyi'
Ligustrum ovalifolium
Prunus laurocerasus 'Otto Luyken'
Prunus Lusitanica

Amenity Planting (example shrubs)

Anemranthele lesssoniana
Aucuba japonica
Brachyglottis 'Sunshine'
Ceanothus thyrsiflorus repens
Choisya ternata 'Sundance'
Choisya x dewitteana 'Aztec Pearl'
Cistus x purpureus 'Alan Fradd'
Cornus sanguinea 'Midwinter Fire'
Cornus sericea 'Flaviramea'
Cornus alba 'Kesselringii'
Euonymus fortunei 'Emerald Gaiety'
Hebe 'Autumn Glory'
Hebe 'Great Orme'
Hypericum 'Hidcote'
Mahonia japonica
Miscanthus sinensis 'Morning Light'
Lonicera pileata
Photinia x fraseri 'Little Red Robin'
Potentilla fruticosa
Prunus laurocerasus 'Otto Luyken'
Phormium 'Tricolor'
Stipa gigantea
Viburnum davidii

SPECIES RICH GRASS

Meadow grass areas sown with Emorsgate EM3 Special General Purpose Meadow Mixture
Mix comprises EG1 grass mix with EM3F Wildflower component.
Composition 80% grass, 20% wildflower species

Amenity grass areas sown with Emorsgate EL1 Flowering Lawn Mixture
Species rich grass suitable for regular mowing
Composition 80% grass, 20% wildflower species

SuDS grass areas sown with Emorsgate EM8 Meadow Mixture For Wetlands
Species rich grass suitable seasonally wet soils
Composition 80% grass, 20% wildflower species

Landscape Masterplan

Mill Lane, Whitburn

Client: Story Homes Ltd

DRWG No: P21-2566_EN_0001

SHEET: S1

Drawn by : NW

Date: 17/11/2025

Scale: 1:1000 @ A1

REV: D

Approved by: KC

PEGASUS GROUP

Rev	Date	By	Note
D	2026.07.07	NW	Amends in line with new layout and ecology requirements
C	2026.06.15	NW	Amends in line with new layout and comments
B	2025.12.16	NW	Amends in line with comments
A	2025.12.11	KCH	Amends in line with comments
-	2025.11.17	NW	First draft