

GEOSPHERE ENVIRONMENTAL

BIODIVERSITY NET GAIN FEASIBILITY REPORT

REPORT NUMBER: 6985,EC,AR,BNG,EB,RF,20-01-23,V2

SITE: Sheringham Recycling Centre, Holt Road, East





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Please note that the reported surveys were conducted on the date(s) stated in the report and that it represents site conditions at the time of the visit. The findings and recommended mitigation are based on these conditions. If site conditions change materially after the site survey, the original report cannot be relied upon and will need to be updated. Ecological reports can typically be relied on for 18 to 24 months from the date of survey.

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Executive Summary

Report	This biodiversity net gain assessment report has been prepared by Geosphere
description	Environmental Limited for Stantec UK Ltd and relates to the proposed
	commercial development of the site at Sheringham Recycling Centre, Holt
	Road, East Beckham, Sheringham, NR26 8TW.
	The purpose of this report is to carry out a biodiversity net gain assessment
	and provide options for on-site and off-site compensation where necessary.
Outcome of BNG	When assessing the site as shown on the Proposed Development Plan, drawing
Assessment	ref. 49868/2001/101 Rev P05, the site does not achieve 'no net loss of
	biodiversity' or a 10% biodiversity net gain.
	An additional area shown on The Sheringham New Access to Recycling Centre
	General Arrangement Plan, Drawing ref. PQ3038-HP4-0100-001 Rev P01,
	shows that the old road can be removed, and replanted. This area that could
	potentially be used to provide an area of scrub planting, that would satisfy the
	need for 'no net loss of biodiversity', and would provide a biodiversity net gain
Recommendations	of +23.88%.
Recommendations	The habitats proposed within the scheme need to be of a sufficient quality to
	achieve the conditions as assessed within these calculations. Specifications for
	the creation and management of these features are summarised within this report.
	report.
	A full Landscape and Ecological Management Plan should be produced to
	provide detail of the creation and management of the habitats. It is
	considered that this should be requested by the Local Planning Authority as
	an appropriately worded planning condition. The landscape and ecological
	management plan would need to include the area of scrub planting on the old
	road.
	Final calculations of biodiversity units should be provided at the same time as
	the Landscape and Ecological Management Plan to ensure that the proposals
	provide a biodiversity net gain.
Conclusions	Provided the recommendations within this report are followed and the
	mitigation hierarchy of avoidance, mitigation, compensation and
	enhancement is implemented throughout the detailed design process,
	potential negative effects from development on important ecological features
	will be negligible, and a biodiversity net gain will be achieved.



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1. INTRODUCTION

1.1 Purpose

This biodiversity net gain assessment report has been prepared by Geosphere Environmental Limited for Stantec UK Ltd and relates to the proposed commercial development of the site at Sheringham Recycling Centre, Holt Road, East Beckham, Sheringham, NR26 8TW for which planning permission will be sought.

The purpose of this report is to carry out a biodiversity net gain assessment using the biodiversity metric 3.1 (ref. **R.1**) and provide options for on-site and off-site compensation that would secure an overall net gain in biodiversity for the scheme.

Any limitations and conditions pertaining to the report are stated within Appendix 1, with a full list of technical references provided within Appendix 2.

1.2 Site Description

The site occupies an area of approximately 0.5 ha and is located around National Grid Reference TG 16281 41032. The indicative development boundary is shown on Figure 1 below:

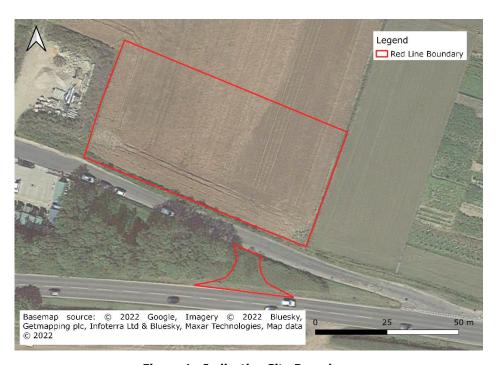


Figure 1. Indicative Site Boundary.

1.3 Proposed Development

The report relates to proposed commercial development of the site as shown in Drawing ref. 49868/2001/101 Rev P05 included within Appendix 3.



2. LEGISLATIVE AND POLICY CONTEXT

2.1 Current UK Legislation

The Environment Act 2021 Act became law on 9 November 2021 and introduces a framework to improve and protect the natural environment, overseen by the newly created Office for Environmental Protection. The Act introduces new statutory requirements, including the duty for local authorities to create new local nature recovery strategies. The Act also introduces a new mandatory requirement for developments to achieve measurable biodiversity net gain. A two-year transition period for this requirement is included in the Act, with provision for secondary legislation to set a date for the requirement to come into force. It is likely this will be late 2023 or later. Once in force, all planning permissions in England (subject to exemptions) must be granted subject to a new general pre-commencement condition that requires approval of a biodiversity gain plan. The planning authority would only approve the biodiversity gain plan if the biodiversity value attributable to a development exceeds the pre-development biodiversity value of the onsite habitat by 10%.

The reader is referred to the original legislation for definitive interpretation.

2.2 Planning Policy

The recommendations of this report are in line with the key principles of the Ministry of Housing, Communities and Local Government (MHCLG) (2021) National Planning Policy Framework (NPPF) (ref. **R.2**) and Government Circular 05/06: Biodiversity and Geological Conservation (ref. **R.3**).

The North Norfolk District Council Local Plan (ref. **R.4**) confirms that developments within North Norfolk will need to achieve Biodiversity Net Gain (BNG). It is unclear what percentage of biodiversity net gain is required during the transition period, but this will be 10% once the transition is ended, therefore this should be targeted. It is likely if a net gain is achievable onsite and this is less than 10%, if an application is made during the transition period, negotiations with the Council may allow this to be agreed.

The document states in Section 3 Delivering Climate Resilient Sustainable Growth:

"3.10.7 An assessment of the existing biodiversity value of the onsite habitat of the development site (the pre-development value) will be required at the point that planning permission is applied for. In order to establish the pre-development value, consideration will be given to whether any deliberate harm to the biodiversity value has taken place in the recent past. Where there is evidence of deliberate neglect and/or damage, or the relevant date has not been subsequently agreed with the Council, the pre-development biodiversity value of the onsite habitat will be taken as that established at January 2020, or as directed in the Act.

3.10.8 Applicants will be required to demonstrate how biodiversity net gain can be achieved through the metric, using information taken from habitat surveys of the development site before development and any related habitat clearance or management has taken place, by calculating losses and gains and through



assessing habitat distinctiveness, condition and extent. To achieve biodiversity net gain, a development must have a sufficiently higher biodiversity unit score after development than before development. When demonstrating biodiversity net gain applicants will be required to clarify the predicted biodiversity outcomes both qualitatively and quantitatively, provide evidence on the application of the mitigation hierarchy, describe the outcomes and how these contribute towards local and strategic biodiversity priorities, demonstrate at least equivalent or better levels of ecological functionality, clarify the timescales for delivery, provide costed management and monitoring plans, identify accountabilities (including enforcement) and responsibilities for delivery of the biodiversity net gain. This will be provided through the submission of a Biodiversity Strategy at validation stage. Any evidence and rationale supplied by applicants should be supported by the appropriate ecological expertise and if appropriate local wildlife knowledge and stakeholders."



3. METHODOLOGY

3.1 Technical Approach

This report is prepared in accordance with the best practice guidelines set out by CIEEM, CIRIA, IEMA and BSi (refs. **R.5** and **R.6**). The conclusions and recommendations for further works are in accordance with current legislation and guidance.

3.2 Personnel

This report was produced by Eleanor Baker (Graduate Ecologist) BSc (Hons), MSc and was reviewed by Richard Fenna (Principal Ecological & Arboricultural Consultant), BSc (Hons), ACIEEM, ND Arb, TechArborA, Natural England Great Crested Newt Survey Licence level 1 (WML-CL08- licence number 2019-39150-CLS-CLS), Natural England Dormouse survey licence level 1 (WML-CL10a- licence number 2018-35915-CLS-CLS), and approved by Katie Linehan (Technical Director) BSc (Hons) MSc FGS PIEMA MCIEEM, who is experienced in ecological consultancy including the production of detailed ecological impact assessments and habitat enhancement and management strategies.

3.3 Habitat Survey and Condition Assessment

The preliminary ecological appraisal (ref. **R.7**) identified the habitats present onsite. Habitats were assessed in accordance with the UK Habitats Classification (ref. **R.8**) to be used within the DEFRA Metric 3.1.

3.3.1 Habitat Condition Assessment

A condition assessment was carried out in accordance with the methodology outlined in the technical supplement for the DEFRA metric 3.1 (ref. **R.9**) at the same time as the habitat assessment, and the results are included within Appendix 4.

3.4 Biodiversity Net Gain Assessment

3.4.1 Baseline Habitats

Classification of area habitats and linear habitats was carried out in accordance with the methodology outlined in the Biodiversity Metric 3.1 (ref. **R.1**) for input into the Biodiversity Metric 3.1 calculator, based on the UK Habitat Classification descriptions of habitats (ref. **R.8**). A condition assessment of each habitat was carried out using the methodology outlined in the technical supplement for the Biodiversity Metric 3.1 (ref. **R.9**). The results of this and the habitat mapping using the GIS software were input into the Biodiversity Metric 3.1 calculation tool, submitted alongside this report.



3.4.2 Proposed Habitats

The habitats within the proposed development are shown on the drawing ref. 49868/2001/101 Rev P05 included within Appendix 3. The areas of the habitats were calculated by georeferencing this plan and digitising estimated habitats using QGIS software. Habitat categories were assigned to the most rational category based upon The Biodiversity Metric (ref. **R.1**). Future conditions of habitats were assumed based on professional judgement.

Where current deficits in biodiversity units are identified, options to achieve no net loss whilst satisfying trading rules and implementing the mitigation hierarchy are recommended in accordance with the best practice guidance (refs. **R.5** and **R.6**).



4. BIODIVERSITY NET GAIN ASSESSMENT

4.1 Baseline Habitats

The habitats recorded within the survey area include:

- Cereal Crops;
- Bramble Scrub.

Figure 2 below shows the extent of habitats encountered during the site visit.

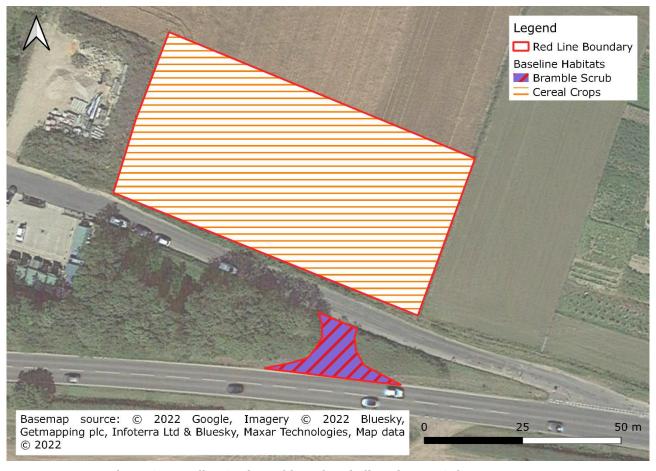


Figure 2. Baseline Onsite Habitats for Biodiversity Net Gain Assessment.

Habitats outside of the site boundary (woodland, and neutral grassland) are not affected by this Net Gain assessment, and therefore are not considered further in this report.

4.1.1 Baseline Ecological Value

A summary of the baseline biodiversity units provided by the habitats are provided in Table 1 below:



Table 1 - Baseline Biodiversity Units						
Habitat Area/Length Condition Biodiversity Units Area-based Habitat Area (ha)						
						Cereal Crops
Bramble Scrub	0.0196	N/A	0.08			
Total Area-based-Habitats 0.38 0.8 (accounting for rounding)						

4.2 Proposed Habitats

The habitats within the proposed development are shown on the proposed development plan, Drawing ref. 49868/2001/101 Rev P05, included within Appendix 3. Figure 3 below shows the extent of proposed habitats digitised by geopositioning the proposed development plan and assigning habitats to the most rational category based upon The Biodiversity Metric:

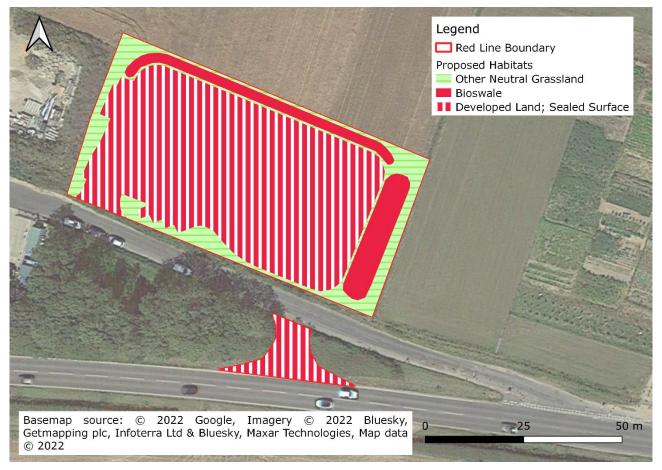


Figure 3. Proposed Onsite Habitats for Biodiversity Net Gain Assessment.



4.2.1 Proposed Ecological Value

The DEFRA metric 3.1 habitats for the proposed development are summarised in Tables 2 below:

Table 2 - Area-based Habitats Within Proposed Development						
Habitat Area (ha) Condition Biodiversity Units						
Created area						
Developed Land; Sealed Surface.	0.2803	N/A	0.00			
Bioswale.	0.0402	Moderate	0.10			
Other Neutral Grassland. 0.0590 Good 0.50						
Total created habitat	0.38		0.60			

4.3 Biodiversity Net Gain Assessment

The biodiversity metric calculation tool (.xlsm spreadsheet) has been submitted alongside this letter report and is available upon request for review as required.

Table 3 below, shows the headline results of the biodiversity net gain assessment:

Table 3 - Onsite Biodiversity Net Gain Assessment Summary of Results				
Onsite baseline.	Habitat units.	0.80		
Onsite post-intervention.	Habitat units.	0.60		
Onsite total net unit change.	Habitat units.	0.20		
Onsite net % change.	Habitat units.	-24.80%		
Trading rule issues.	Deficit in habitat units for scrub of medium distinctiveness.	-0.08		
	Deficit in habitat units for low distinctiveness habitats.	-0.62		

The habitats proposed within the scheme need to be of a sufficient quality to achieve the conditions as assessed within these calculations. Specifications for the creation and management of these features are summarised in section 5.4 below.

4.3.1 Area-based Habitats

The baseline sum of biodiversity units onsite considering area-based habitats is 0.8 habitat units. Post-development in the current scenario, the development would provide 0.6 habitat units, in other words a net loss of 0.20 habitat units (-24.80%).

For the loss of bramble scrub, stricter trading rules apply, since this is a habitat of medium distinctiveness. This means that scrub habitats of medium distinctiveness or higher only can be considered as compensation



for the loss of bramble scrub. For bramble scrub 0.08 units will be lost, and therefore 0.8 units of scrub will need to be created to compensate for the loss.



5. RECOMMENDATIONS

5.1 Recommendations for Appropriate Compensation

Any habitat the developer creates with the purpose of achieving either no net loss of biodiversity or a biodiversity net gain, should be managed for a period of not less than 30 years. A management plan and proof of funding should be provided to the local authority for approval.

5.2 Achieving No Net Loss of Biodiversity

The mitigation hierarchy of avoidance, mitigation and compensation must be satisfied before a no net loss of biodiversity can be realised. This includes implementation of any mitigation measures required to ensure there are no significant effects on ecological receptors. Once these key requirements are met, biodiversity net gain can then be considered.

The potential effects identified in the preliminary ecological appraisal report (ref. **R.7**) that may require mitigation include potential effects on foraging bats and nesting birds in on-site trees and scrub. Recommendations provided in the report include:

- Retention and protection of the trees with roost potential. This should include an appropriate buffer to avoid impacts from vibration and noise during construction;
- A sensitive lighting scheme should be designed in coordination between a qualified lighting engineer
 and a suitably qualified Ecologist. This should ensure that potential roosting and connective commuting
 habitat (either retained or created within the development) remains as unlit as possible to allow
 continued and future use by bats.
- Scrub and tree clearance, if necessary, should be undertaken outside of the bird nesting season. If this is not possible, clearance works should take place with a suitably qualified ecologist present.
- Vegetation clearance should be undertaken under an Ecological Method Statement, to limit the death or injury of reptiles.
- Vegetation clearance should occur in hedgehog active season, to reduce the impact on hedgehogs.

Once a mitigation strategy is agreed, suitable compensation can be considered.

5.2.1 No Net Loss of Bramble Scrub

For the area-based habitats onsite, it is possible to compensate for the loss of habitat units attributable to bramble scrub and provide no net loss by creating 0.058ha of mixed scrub in a moderate condition from an area of hardstanding, this is shown on figure 4, below, and shown on the Sheringham New Access to Recycling Centre General Arrangement Plan, Drawing ref. PQ3038-HP4-0100-001 Rev P01, in Appendix 3.

This will provide an increase of 0.39 units, increasing the post-intervention habitat units to 0.99, achieving a net gain of biodiversity of +23.88%, meaning overall, there is no net loss of habitats and the trading rules have been satisfied.



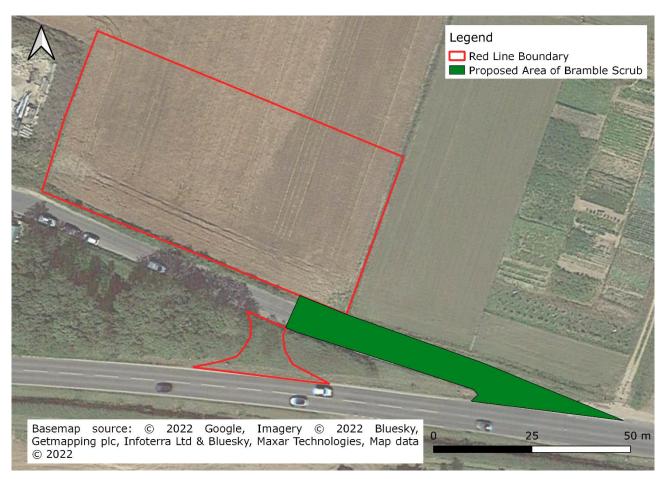


Figure 4. Proposed area of Mixed scrub

5.2.2 Purchase of Biodiversity Credits

If the developer does not wish to actively create and manage off-site habitats to achieve a biodiversity net gain, the alternative would be to purchase biodiversity unit credits from a land bank or similar.

5.3 Achieving Biodiversity Net Gain

The same recommendations to achieve no net loss of biodiversity provided above are relevant for achieving a biodiversity net gain on site, the planting of 0.058ha of mixed scrub in a moderate condition from an area of hardstanding, as shown on figure 4 above, will achieve a net gain of biodiversity of +23.88%.

In addition, the preliminary ecological appraisal report (ref. **R.7**) recommends the following ecological enhancements are considered for the scheme:

- Planting of native plant species beneficial to wildlife should be incorporated into the final design. This
 will provide additional habitat for invertebrates, which will in turn provide a food source for reptiles,
 birds, bats, and Hedgehog.
- The final development plan should incorporate bat and bird boxes into the scheme. This will provide



additional roosting and nesting habitats for bats and birds post-development. Recommendations for specifications for wildlife boxes are included within the preliminary ecological appraisal report.

5.4 Recommendations to Achieve Target Condition of Proposed Onsite Habitats

It is recommended that a Landscape and Ecological Management Plan (LEMP) is produced to ensure the habitats on site are created managed to the appropriate condition specified within this report, to achieve the condition assumed. It is recommended that the BNG calculations are updated at the same time as the LEMP.

Recommendations to achieve the target condition for proposed retained and/or enhanced habitats are included below.

5.4.1 Developed Land; Sealed Surface

There is no habitat requirement for developed land. Further fauna enhancement can be provided in the form of bird/ bat boxes within the buildings. Recommendations for integrated bird/bat boxes are included in the preliminary ecological appraisal report (ref. **R.7**).

5.4.2 Bioswale

The bioswales onsite should be able to achieve moderate condition if two of four of the following criteria are achieved based upon Table 4 below:

Tab	Table 4 - Bioswale Condition Assessment Criteria			
	Condition Assessment Criteria	How this is Achieved		
1	Vegetation structure is varied, providing opportunities for insects, birds and bats to live and	The bioswale will be seeded with an appropriate wildflower seed mix, such as Emorsgate EM3.		
	breed. A single ecotone (i.e. scrub, grassland, herbs) should not account for more than 80% of the total habitat area.	The bioswale will be manage to ensure the structure is varied.		
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.	The bioswale will be seeded with an appropriate wildflower seed mix, such as Emorsgate EM3.		
3	Invasive non-native species (Schedule 9 of WCA) cover less than 5% of total vegetated area.	The grassland will be managed to ensure invasive species are absent and will be protected from damage.		
4b	The water table is at or near the surface throughout the year. This could be open water or saturation of soil at the surface.	It is uncertain as to whether this criteria will be met on this site.		

5.4.3 Other Neutral Grassland

To achieve a good condition, the other neutral grassland should meet 5 of 6 of the following criteria, outlined in Table 5 below:



Tab	Table 5 - Other Neutral Grassland Condition Assessment Criteria			
	Condition Assessment Criteria	How this is Achieved		
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.	The grassland will be seeded with an appropriate wildflower seed mix, such as Emorsgate EM3. The grassland will be managed as a wildflower meadow, by mowing the grassland once the flowers have set seed in late summer (e.g., August), leaving the cuttings to dry in-situ to allow the seeds to shed from the cuttings. After two weeks the cuttings will be removed.		
2	Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	A diversity of species will create a diverse sward height. Additional sward diversity will be achieved with the adjacent bioswales and edge of the site.		
3	Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	Small areas of bare ground are assumed to be present within the area, such as ant hills, mole hills and rabbit warrens.		
4	Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.	Bracken and Bramble will be treated appropriately (spot treatment, hand pulling or brush cutting) to ensure the cover is less than the required amount.		
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 condition1 and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area.	The grassland will be managed to ensure invasive species are absent and will be protected from damage.		
6	There are greater than 9 species per metre squared.	The grassland will be seeded with an appropriate wildflower seed mix, such as Emorsgate EM3.		

5.5 Mixed Scrub

To achieve moderate condition, mixed scrub should achieve three of five of the following criteria, outlined in Table 6 below:

Tab	Table 6 - Mixed Scrub Condition			
	Condition Assessment Criteria	How this is achieved		
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).	This will be achieved by planting a diverse mix of scrub comprising of at least three species (such as Hawthorn, Blackthorn and Dog rose). Scrub will be managed by thinning, such that no one species dominates the cover.		
2	There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.	This is unlikely to be achieved on this site.		
3	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981) and undesirable species make up less than 5% of ground cover.	This will be achieved by regular monitoring and remedial actions, where appropriate (such as herbicide spot treatment, hand pulling or other method dependant on the undesirable species present).		
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).	The scrub habitats will be adjacent to grassland areas which provides the grassland and herb mosaic. The scrub will likely be regularly cut back as part of the roadside maintenance, which will maintain the edge habitat.		



5	There are clearings, glades or rides present within the scrub, providing sheltered edges.	This is unlikely to be achieved on this site.
	scrub, providing sherefred edges.	

5.6 Further Survey and Assessment Required

No further survey and/or assessment is required to finalise the BNG feasibility assessment. If required as the design progresses, recalculations of likely credits may be requested to determine the feasibility of achieving biodiversity net gains at the site.

A full Landscape and Ecological Management Plan should be produced to provide detail of the creation and management of the habitats. It is considered that this should be requested by the Local Planning Authority as an appropriately worded planning condition.

5.7 Monitoring

A monitoring programme to measure the progress of habitat enhancements selected to take forward should be included in any future habitat management plan.



6. CONCLUSIONS

When assessing the site as shown on the Proposed Development Plan, Drawing ref. 49868/2001/101 Rev P05, the site does not achieve 'no net loss of biodiversity' or a 10% biodiversity net gain.

An additional area shown on The Sheringham New Access to Recycling Centre General Arrangement Plan, Drawing ref. PQ3038-HP4-0100-001 Rev P01, shows that the old road can be removed, and replanted. This area that could potentially be used to provide an area of scrub planting, that would satisfy the need for 'no net loss of biodiversity', and would provide a biodiversity net gain of +23.88%.

The habitats proposed within the scheme need to be of a sufficient quality to achieve the conditions as assessed within these calculations. Specifications for the creation and management of these features are summarised within this report.

A full Landscape and Ecological Management Plan should be produced to provide detail of the creation and management of the habitats. It is considered that this should be requested by the Local Planning Authority as an appropriately worded planning condition. The landscape and ecological management plan would need to include the area of scrub planting on the old road.

Final calculations of biodiversity units should be provided at the same time as the Landscape and Ecological Management Plan to ensure that the proposals provide a biodiversity net gain.

Provided the recommendations within this report are followed and the mitigation hierarchy of avoidance, mitigation, compensation and enhancement is implemented throughout the detailed design process, potential negative effects from development on important ecological features will be negligible, and a biodiversity net gain will be achieved.



APPENDICES



Appendix 1 – Report Limitations and Conditions

General Limitations and Exceptions

This report was prepared solely for our Client for the stated purposes only and is not intended to be relied on by any other party or for any other use. No extended duty of care to any third party is implied or offered. Third parties should not rely on the facts, matters or opinions set out in this report without the express written permission of Geosphere Environmental Ltd.

Geosphere Environmental Ltd does not purport to provide specialist legal advice.

The Executive Summary, Conclusions and Recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon until considered within the context of the whole report.

Interpretations and recommendations contained within the report represent our professional opinions, which were arrived at in accordance with currently accepted industry practices at the time of reporting and based upon current legislation in force at that time.

Ecology Limitations and Exceptions

Any limitations associated with the report will be stated. The consequences of any limitations, findings and/or recommendations in the report are made clear in line with CIEEM (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine, Chartered Institute of Ecology and Environmental Management, Winchester and BSI (2013) BS 42020:2013 Biodiversity – 'Code of practice for planning and development'.

This report is prepared and written in the context of the proposals stated in the introduction to this report and should not be used in a differing context.

The wildlife and habitats present on any site are subject to change over time. Surveys of this kind can have limited validity, with the possibility of behaviour patterns and territory boundaries varying over time, due to the dynamics of adjacent populations.

New information, improved practices and legislation may necessitate an alteration to the report in whole or in part after its submission. Therefore, with any change in circumstances or after the expiry of one year from the date of the report, the report should be referred to us for re-assessment and, if necessary, re-appraisal.



It should be noted that whilst every effort has been made to provide a comprehensive description of the site, no survey or assessment can ensure the complete characterisation of the natural environment.

Unless stated specifically, drawings and plans are indicative only. As such, the position of features marked on the plans or drawings should not be taken as 100% accurate.

If bats or any other European protected species are found to be present onsite and the proposed activities will cause disturbance or destruction of a roost site then this report will only summarise the potential requirements. For works to continue a detailed mitigation plan with appropriate compensation measures would be required and a development licence would need to be sought from Natural England.

This survey does not constitute an invasive species survey and should not be treated as such.

Owing to seasonal variances and prevailing weather, conditions may sometimes be sub-optimal for surveying and this may delay or disrupt planned survey programmes. If applicable, full details are given in the report.

Geosphere Environmental Ltd may not be aware of information that could be held by other organisations or individuals, and it is always possible for features of nature conservation interest to be unrecorded during surveys.

Scientific survey data will be shared with local biological records centre in accordance with the CIEEM professional code of conduct.



Appendix 2 - References

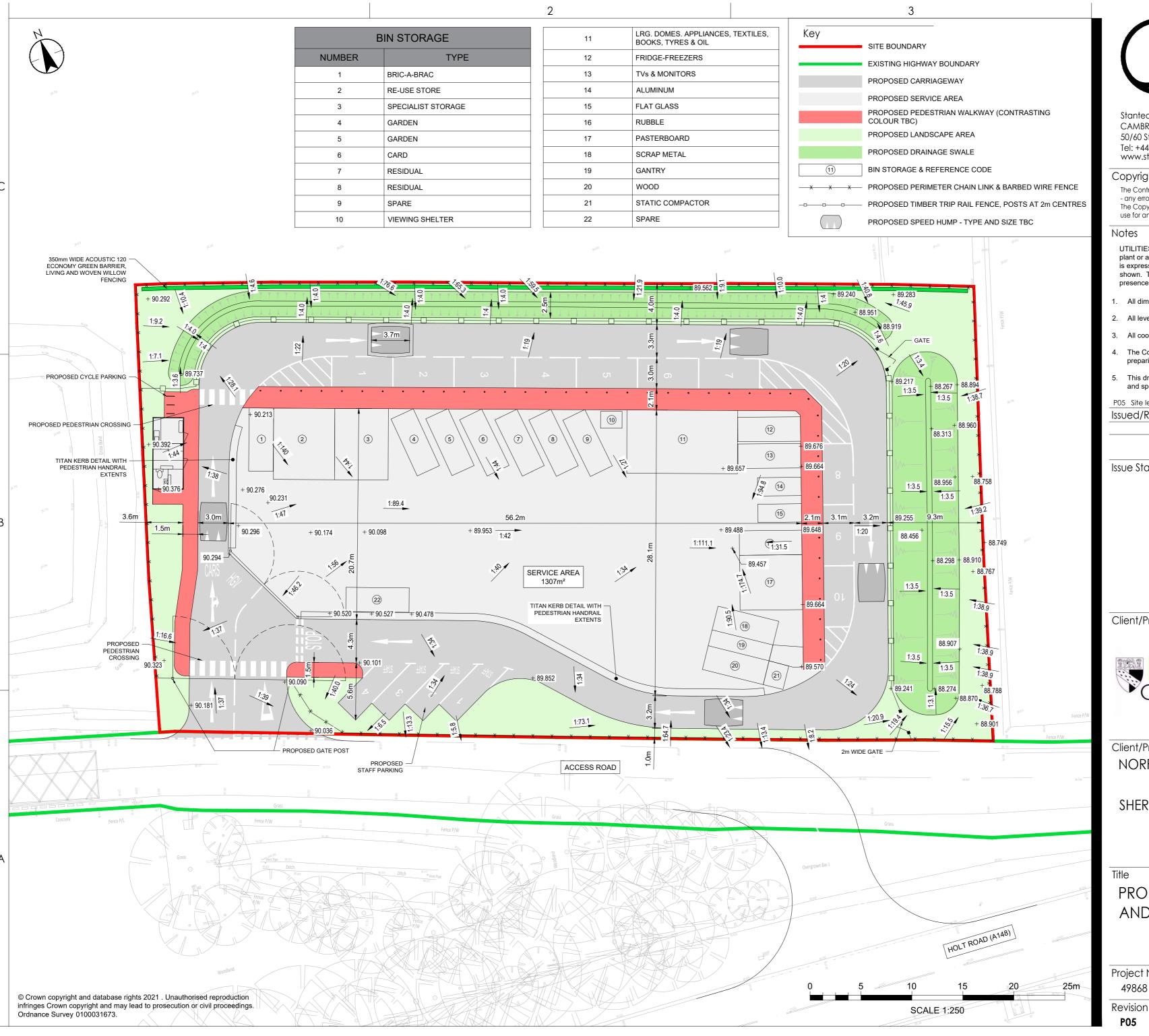
- R.1. Panks, Stephen et. al. (April 2022). Natural England Joint Publication JP039 Biodiversity Metric
 3.1, Auditing and Accounting for Biodiversity: User Guide.
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Appendix 3 - Drawings

Proposed Development Plan - Drawing ref. 49868/2001/101 Rev P05

The Sheringham New Access to Recycling Centre General Arrangement Plan – Drawing ref. PQ3038-HP4- 0100-001 Rev P01





Stantec UK Limited CAMBRIDGE 50/60 Station Road, Cambridge, CB1 2JH Tel: +44 1223 882 000 www.stantec.com/uk

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UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake their own investigation where the presence of any existing sewers, services, plant or apparatus may affect their operations.

- All dimensions are in millimetres unless noted otherwise.
- All levels are in metres relative to Ordnance Datum Newlyn unless noted otherwise.
- All coordinates are in metres relative to Ordnance Survey National Grid.
- The Contractor is to verify all dimensions on site before commencing work or preparing shop drawings.
- This drawing is to be read in conjunction with all Engineers and Architects drawings

P05 Site levels and issue status updated		DF	TB	2023.01.09
Issued/Revision		Ву	Appd	YYYY.MM.DD
	DF	-	TB	2022.08.22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

PLANNING APPROVAL

This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.

Client/Project Logo



Client/Project

NORFOLK COUNTY COUNCIL

SHERINGHAM RECYCLING CENTRE

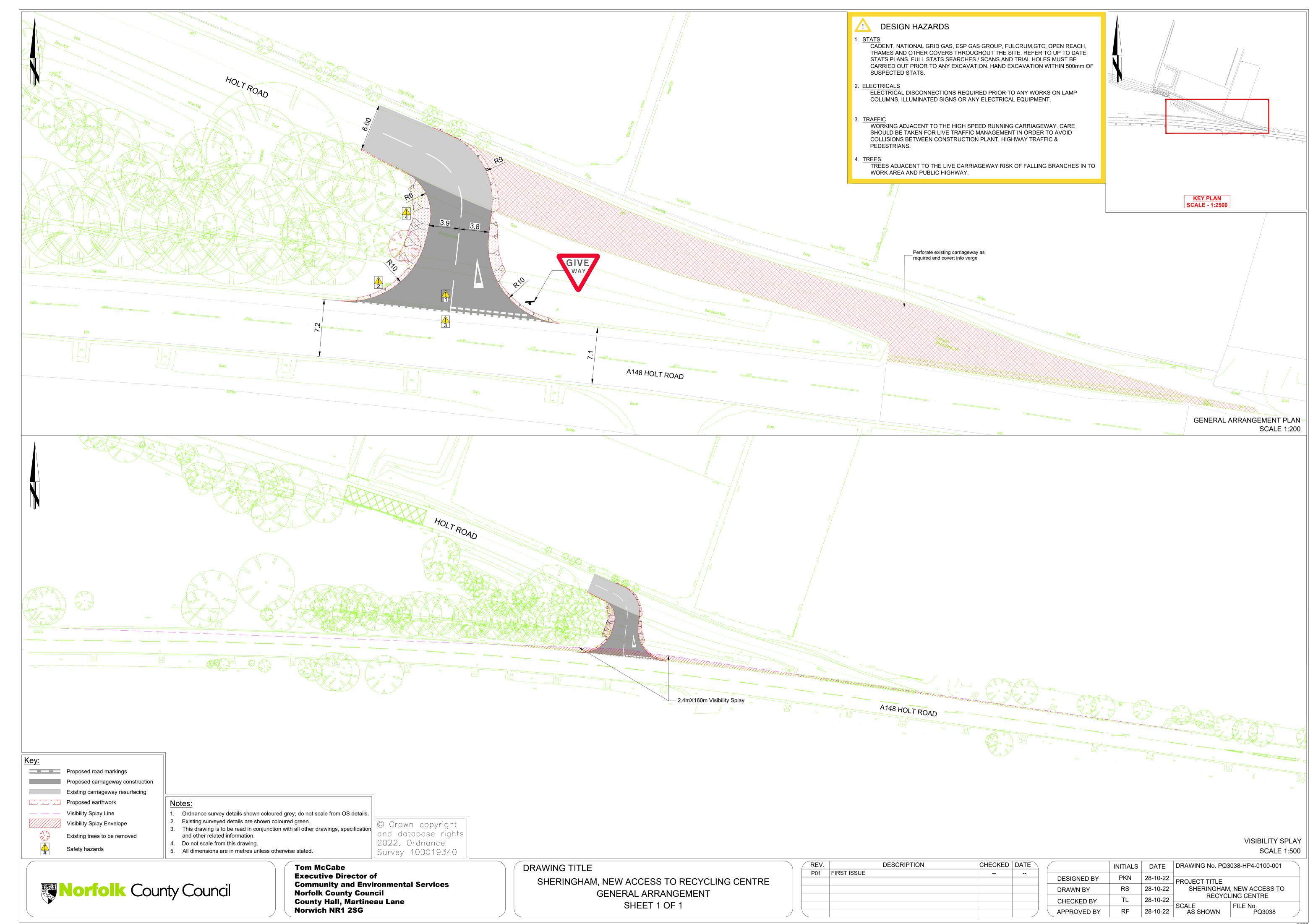
PROPOSED GENERAL ARRANGEMENT AND LEVEL DESIGN

Scale Project No.

Drawing No.

49868/2001/101

A2 @ 1:250



ORIGINAL SIZE:

JC 01/08/18



Appendix 4 – Habitat Condition Assessment Forms

Survey cover sheet			
Date	02-Oct-22	Site name or location	Sheringham Recycling Centre
Weather conditions	12°C, 14mph and 100% Cloud Cover	Project/development name	
Surveyor name(s)	Eleanor Baker/Richard Fenna	Onsite/offsite	
Metric 3.1 survey reference		Reason for assessment (if not baseline condition survey)	
Notes			

		Habitat Type (medium, high & very high dis	tinctiveness)	
	(Hab Habitat Type(s)			
Gr Gr Gr Gr Gr	assland - Lowland calcareous assland - Lowland dry acid gr assland - Lowland meadows assland - Other lowland acid assland - Other neutral grass assland - Tall herb communit assland"] assland - Upland acid grassla assland - Upland calcareous	rassland grassland land ies (H6430) [Note Tall herb habitat that does i	not meet the Annex 1 definition should be record	ed as "Other neutral
Gr	assland - Upland hay meadov arsely vegetated land - Calan	vs		
Sit	e name/location		Onsite/offsite	
	ntral grid reference of bitat		Unique polygon reference	
Lir	nitations (if applicable)		Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)	
На	bitat Description			
<u>Se</u>	e UKHab			
Со	ndition Assessment Criteria		Condition Achieved (Y/N)	Notes/Justification
1	characteristics of the specific g Wildflowers, sedges and indica type are very clearly and easily	ion of the vegetation closely matches transland habitat type (see UKHab definition). After species for the specific grassland habitat or visible throughout the sward. NB - This eving moderate condition for non-acid	Y	
2	Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.		Y	
Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.			Y	
4	Cover of bracken less than 20 th less than 5%.	% and cover of scrub (including bramble)	Y	
5	9 of WCA, 1981). Combined condition1 and physical damage from machinery use or storage	e non-native species (as listed on Schedule over of species indicative of sub-optimal ge (such as excessive poaching, damage , damaging levels of access, or any other les) accounts for less than 5% of total area.	N	
Ad	ditional Group (Non-acid type	es only)		

6	· ·	cies per metre squared. NB - This criterion is d condition (non-acid grassland types	Y	
		Criterion 1 Achieved (Essential fo	or good condition for non-acid grassland) (Y/N)	
			Number of criteria passed	
	ondition Assessment Result	Condition Assessment Score	Score Achieved ×/√	
Ac	id Grassland Types			
Pa	sses 5 of 5 criteria	Good (3)		
Pa	sses 3 or 4 of 5 criteria	Moderate (2)		
Pa	sses 0, 1 or 2 of 5 criteria	Poor (1)		
No	on-acid grassland Types			
	sses 5 of 6 criteria, including sential criterion 1 and 6.	Good (3)	Good	
	sses 3 or 4 of 6 criteria, cluding essential criterion 1.	Moderate (2)		
cri Pa	sses 0, 1, 2 criteria of 6 teria; OR sses 3 or 4 criteria excluding terion 1 and 6	Poor (1)		
Sı	ggested enhancement interv	ventions to improve condition score		

Notes

Footnote 1 - Species indicative of sub-optimal condition for this habitat type include:

Creeping thistle Cirsium arvense, spear thistle Cirsium vulgare, curled dock Rumex crispus, broad-leaved dock Rumex obtusifolius, common nettle Urtica dioica, creeping buttercup Ranunculus repens, greater plantain Plantago major, white clover Trifolium repens, cow parsley Anthriscus sylvestris.

Со	Condition Sheet: WOODLAND Habitat Type								
UKHab Habitat Type(s)									
	Noodland and forest - Lowland beech and yew woodland								
	Voodland and forest - Lowland mixed deciduous woodland Voodland and forest - Native pine woodlands								
	/oodland and forest - Native pine woodlands /oodland and forest - Other coniferous woodland								
	Voodland and forest - Other coniferous woodland Voodland and forest - Other Scot's pine woodland								
	Voodland and forest - Other woodland; broadleaved Voodland and forest - Other woodland; mixed								
Wo	Voodland and forest - Other woodland; mixed Voodland and forest - Upland birchwoods								
	Voodland and forest - Upland mixed ashwoods								
	/oodland and forest - Upland oakwood								
VVC	oodland and forest - We	woodiand							
Sit	te name/location		Onsite/offsite						
Hэ	abitat's Central Grid		Unique polygon						
	etric 3.0 survey		Limitations (if						
	ference (if condition								
	sessment of this		Limitations (if applicable)						
ро	lygon relates to a								
wi	der habitat survey)								
Ha	abitat Description								
Se	ee UKHab								
Se	ee UKHab								
		d on the England Woodland Bio	diversity Group (EWBG) V	Voodland Condition Surve	/ Method, available here:				
Thi		d on the England Woodland Bio	diversity Group (EWBG) V	Voodland Condition Surve	/ Method, available here:				
Thi http	is condition sheet is based	it.sylva.org.uk/assess	diversity Group (EWBG) V	Voodland Condition Surve	/ Method, available here:				
Thi http	is condition sheet is base ps://woodlandwildlifetoolk andition Assessment Cri	it.sylva.org.uk/assess teria				Nator/Justification			
Thi http	is condition sheet is based	it.sylva.org.uk/assess	diversity Group (EWBG) V	Voodland Condition Surve		Notes/Justification			
Thi http	is condition sheet is base ps://woodlandwildlifetoolk andition Assessment Cri	it.sylva.org.uk/assess teria			Score per indicator	Notes/Justification			
Thi http	nis condition sheet is base ps://woodlandwildlifetoolk ondition Assessment Cri dicator	it.sylva.org.uk/assess teria	Moderate (2 points)		Score per indicator	Notes/Justification			
Thi http	is condition sheet is based ps://woodlandwildlifetoolki andition Assessment Cri dicator Age distribution of	it.sylva.org.uk/assess teria	Moderate (2 points) Two age classes		Score per indicator	Notes/Justification			
Thi http Co	nis condition sheet is base ps://woodlandwildlifetoolk ondition Assessment Cri dicator	tt.sylva.org.uk/assess teria Good (3 points)	Moderate (2 points)	Poor (1 point)	Score per indicator	Notes/Justification			
Thi http Co	is condition sheet is based ps://woodlandwildlifetoolki andition Assessment Cri dicator Age distribution of	tt.sylva.org.uk/assess teria Good (3 points)	Moderate (2 points) Two age classes	Poor (1 point)	Score per indicator	Notes/Justification			
Thi http Co	is condition sheet is based ps://woodlandwildlifetoolki andition Assessment Cri dicator Age distribution of	tt.sylva.org.uk/assess teria Good (3 points)	Moderate (2 points) Two age classes	Poor (1 point)	Score per indicator 1	Notes/Justification			
Thi http Co	is condition sheet is based ps://woodlandwildlifetoolki andition Assessment Cri dicator Age distribution of	tt.sylva.org.uk/assess teria Good (3 points)	Moderate (2 points) Two age classes present	Poor (1 point) One age class present	Score per indicator	Notes/Justification			
Thi http Co	is condition sheet is based ps://woodlandwildlifetoolking.com/states/ps://wood	teria Good (3 points) Three age classes present	Moderate (2 points) Two age classes present Evidence of significant	Poor (1 point) One age class present Evidence of significant	Score per indicator 1	Notes/Justification			
Thi http Co	is condition sheet is based ps://woodlandwildlifetoolki andition Assessment Cri dicator Age distribution of	teria Good (3 points) Three age classes present No significant browsing	Moderate (2 points) Two age classes present Evidence of significant browsing pressure is	Poor (1 point) One age class present Evidence of significant browsing pressure is	Score per indicator 1	Notes/Justification			
Thi	ais condition sheet is based ps://woodlandwildlifetoolk.ondition Assessment Cridicator Age distribution of trees¹ Wild, domestic and	teria Good (3 points) Three age classes present	Two age classes present Evidence of significant browsing pressure is present in 40% or less	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more	Score per indicator 1	Notes/Justification			
Thi	ais condition sheet is based ps://woodlandwildlifetoolk.ps://woodlandwildli	teria Good (3 points) Three age classes present No significant browsing	Moderate (2 points) Two age classes present Evidence of significant browsing pressure is	Poor (1 point) One age class present Evidence of significant browsing pressure is	Score per indicator 1	Notes/Justification			
Thi	ais condition sheet is based ps://woodlandwildlifetoolk.ps://woodlandwildli	teria Good (3 points) Three age classes present No significant browsing	Two age classes present Evidence of significant browsing pressure is present in 40% or less	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more	Score per indicator 1	Notes/Justification			
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Thi	ais condition sheet is based ps://woodlandwildlifetoolk.ps://woodlandwildli	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland ²	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more	Score per indicator 1	Notes/Justification			
Thinhtty	is condition sheet is based ps://woodlandwildlifetoolk prodition Assessment Cridicator Age distribution of trees Wild, domestic and feral herbivore damage	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland ² No invasive species present	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other	Score per indicator 1	Notes/Justification			
Thi	ais condition sheet is based ps://woodlandwildlifetoolk.ps://woodlandwildli	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland ²	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10%	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10%	Score per indicator 1	Notes/Justification			
Thinhtty	is condition sheet is based ps://woodlandwildlifetoolk prodition Assessment Cridicator Age distribution of trees Wild, domestic and feral herbivore damage	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland ² No invasive species present	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other	Score per indicator 1	Notes/Justification			
Thinhtty	is condition sheet is based ps://woodlandwildlifetoolk prodition Assessment Cridicator Age distribution of trees Wild, domestic and feral herbivore damage	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland ² No invasive species present	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10%	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10%	Score per indicator 1 3	Notes/Justification			
Thinhtty	is condition sheet is based ps://woodlandwildlifetoolk photostic and feral herbivore damage	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland ² No invasive species present	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10%	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10%	Score per indicator 1	Notes/Justification			
Thinhtty	is condition sheet is based ps://woodlandwildlifetoolk photostic and feral herbivore damage	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland² No invasive species present in woodland	Moderate (2 points) Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10% cover	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10% cover	Score per indicator 1 3	Notes/Justification			
Thinhtty Cooling	is condition sheet is based ps://woodlandwildlifetoolk photostic and feral herbivore damage	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland² No invasive species present in woodland	Moderate (2 points) Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10% cover	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10% cover	Score per indicator 1 3	Notes/Justification			
Thinhtty	is condition sheet is based ps://woodlandwildlifetoolkion discator Age distribution of trees¹ Wild, domestic and feral herbivore damage Invasive plant species³	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland² No invasive species present in woodland Five or more native tree or shrub species found across	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10% cover Three to four native tree or shrub species found	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10% cover	Score per indicator 1 3	Notes/Justification			
Thinhtty Cooling	is condition sheet is based ps://woodlandwildlifetoolk.ondition Assessment Cridicator Age distribution of trees¹ Wild, domestic and feral herbivore damage Invasive plant species³	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland² No invasive species present in woodland	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10% cover Three to four native tree or shrub species found	Poor (1 point) One age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10% cover	Score per indicator 1 3	Notes/Justification			
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Thinhtty Cooling	is condition sheet is based ps://woodlandwildlifetoolk.ondition Assessment Cridicator Age distribution of trees¹ Wild, domestic and feral herbivore damage Invasive plant species³	teria Good (3 points) Three age classes present No significant browsing damage evident in woodland² No invasive species present in woodland Five or more native tree or shrub species found across woodland parcel	Two age classes present Evidence of significant browsing pressure is present in 40% or less of whole woodland Rhododendron or laurel not present, other invasive species < 10% cover Three to four native tree or shrub species found across woodland parcel	Poor (1 point) Cone age class present Evidence of significant browsing pressure is present in 40% or more of whole woodland Rhododendron or laurel present, or other invasive species > 10% cover None to two native tree or shrub species across woodland parcel	Score per indicator 1 3	Notes/Justification			
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6	woodland ⁴	ISDACE TIDIESS WOODIAND IS	21- 40% of woodland has areas of temporary open space	More than 40% of woodland has areas of temporary open space	3	
7	Woodland regeneration ⁵	All three classes present in woodland; trees 4-7cm dbh, saplings and seedlings or advanced coppice regrowth	One or two classes only present in woodland	No classes or coppice regrowth present in woodland	1	
8	Tree health	Ind hacte or disasses and no		Greater than 25% tree mortality and or any high risk pest or disease present	2	
9	Vegetation and ground flora		Recognisable NVC plant community present	No recognisable NVC community	1	
10	Woodland vertical structure ⁶	Three or more storeys across all survey plots or a complex woodland	Two storeys across all survey plots	One or less storey across all survey plots	1	
11	Veteran trees ⁷	Two or more veteran trees per hectare	One veteran tree per hectare	No veteran trees present in woodland	1	
12		50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and	Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps	Less than 25% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps	1	
13	Woodland disturbance ⁸	damaged ground evident	Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground	More than 1 hectare of nutrient enrichment and/or more than 20% of woodland area has damaged ground	3	
				Total Score		
Condition Assessment Result				Condition Assessment	Score	Result Achieved
	tal score >32 (33 to 39) tal score 26 to 32			Good (3) Moderate (2)		Poor
			Poor (1)		-	
Suggested enhancement interventions to improve condition score						
Su	ggested enhancement i	nterventions to improve cond	ition score			
1						



- Ec Ecology.
- Fr Flood Risk.
- Ge Geotechnical.
- En Environmental.
- Kw Knotweed.