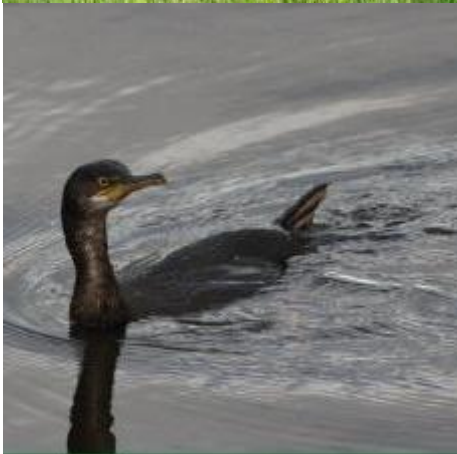




21 High Green  
Great Ayton  
North Yorkshire  
TS9 6BJ  
T 01642 724800  
F 01642 722005  
M 07398129598  
E [Enquiries@ecosurv.co.uk](mailto:Enquiries@ecosurv.co.uk)

# **Habitat Management and Monitoring Plan (HMMP) Station Road Warnham RH12 3SR**

**Prepared by**

**Harry Cuthbert MSc BSc (Hons)**

## Document Control Sheet

|                  |                                        |
|------------------|----------------------------------------|
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## Record of Issue

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All ecologists employed on this project by Ecosurv Ltd are members of the Chartered Institute of Ecology and Environmental Management (CIEEM) and follow the Institute's code of practice when undertaking ecological surveys and associated work, or were supervised by such a member.

All assessment is based upon, and accurate to, the information made available to Ecosurv Ltd prior to the completion of this report. Any alterations to this information at a later date will reduce the accuracy of this report, to which Ecosurv Ltd cannot be held accountable.

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# 1 INTRODUCTION

## 1.1 Summary

Ecosurv Ltd have been instructed by Wienerberger Ltd to provide a Habitat Management and Monitoring Plan (HMMP), for the development at Warnham Station, Warnham. It sets out the creation and long-term management and monitoring strategy of landscape and ecological features for a period of at least 30 years within the development area of the Warnham Station Site, (hereafter referred to as the 'Site').

The proposals are for the development of multiple residential houses and flats with associated infrastructure and landscaping. This will involve the removal of most of the vegetation on the site.

As part of the BNG strategy of the site three areas of modified grassland north of the site are to be converted into two areas of woodland, and an area of other neutral grassland with a pond and individual trees.

## 1.2 Location

The site is centred on Grid Reference NZ 4032 3662 and can be accessed by Station Road (Figure 1).

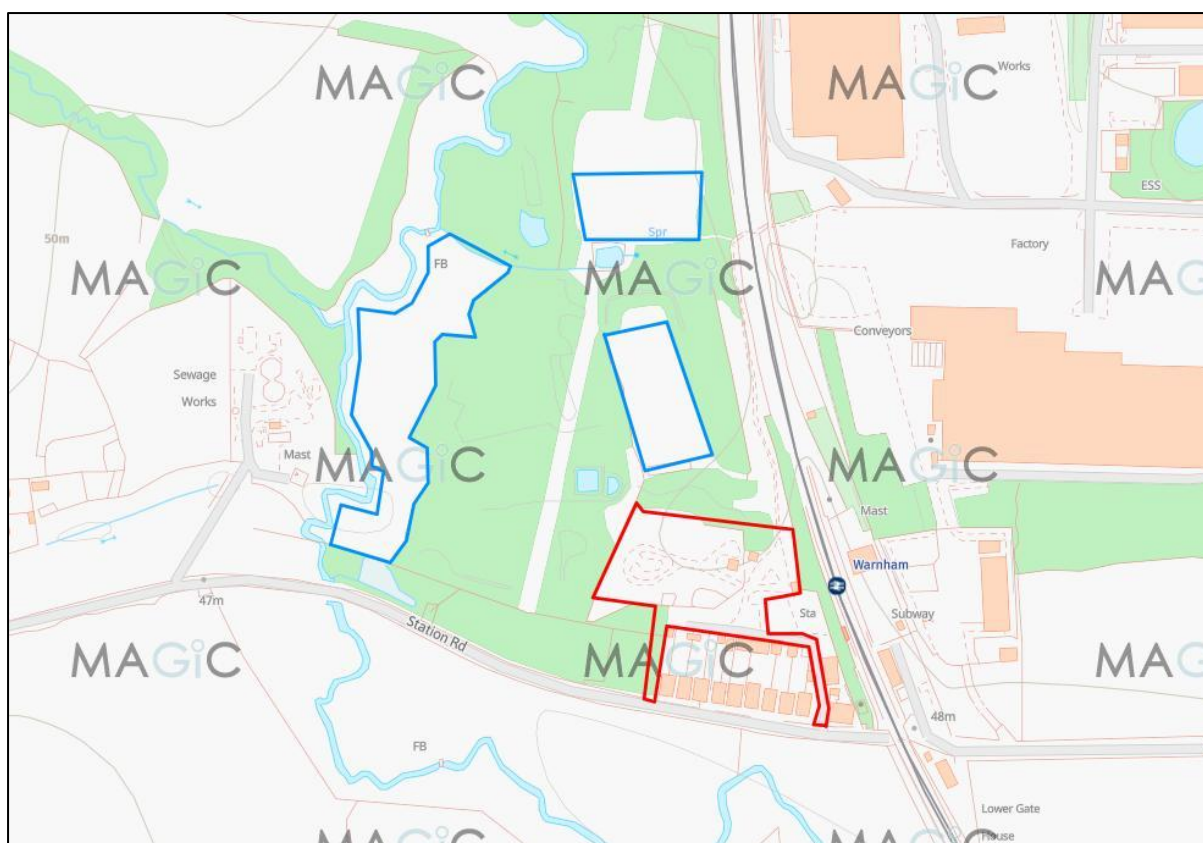


Figure 1. Location of Development Site in red.



*Figure 2. Location of Development Site.*

## 2 SCHEME OBJECTIVES

This document represents a source of information for the implementation of the BNG-led elements of the landscape proposals. It provides a rationale for the habitat and ecological enhancements identified and details measures required for the creation, enhancement and long-term management of these habitats and features.

The long-term management objectives of this plan are:

- ❖ To meet the BNG targets for the development as outlined within the approved metric;
- ❖ To ensure the successful establishment and long-term health of all landscape elements for the benefits of the wider community;
- ❖ To ensure the scheme is successfully maintained;
- ❖ To identify defects as soon as possible in order to minimise any damage and rectify at the earliest opportunity;
- ❖ To safeguard and enhance the biological and physical integrity of the Site;
- ❖ To ensure that retained and newly created habitats within the open spaces and green infrastructure are managed to enhance their biodiversity and connectivity as foraging and commuting habitat for high value wildlife;
- ❖ To ensure new planting establishes to create a high-quality landscaping scheme to provide an attractive and desirable setting to the development; and
- ❖ To comply with legal obligations and constraints.

This document provides management actions that can be undertaken for the creation and successful establishment of habitats and biodiversity at the site for a period of five years after the completion of the development's construction, and outline longer term management prescriptions to ensure the conservation and enhancement of habitats for the following 25 years.

### 2.1 Biodiversity Net Gain Summary and Targets

#### 2.1.1 Habitat Loss, Retention & Enhancement from Baseline

A summary of the habitats to be lost, retained and enhanced from the sites baseline are presented in Tables 1 - 3 below.

**Table 1. Summary of habitat loss, retention & enhancement from baseline**

| Broad Habitat       | Habitat Type                     | Condition   | Baseline Area (ha) | Area Lost (ha) | Area Retained (ha) | Area Enhanced (ha) |
|---------------------|----------------------------------|-------------|--------------------|----------------|--------------------|--------------------|
| Urban               | Developed land; sealed surface   | N/A - Other | 0.0379             | 0.0379         | 0                  |                    |
| Woodland and Forest | Lowland mixed deciduous woodland | Moderate    | 0.0783             | 0              | 0.0783             |                    |

|                  |                              |          |        |        |        |  |
|------------------|------------------------------|----------|--------|--------|--------|--|
| Lakes            | Ponds (non-priority habitat) | Poor     | 0.0006 | 0      | 0.0006 |  |
| Urban            | Bare ground                  | Poor     | 0.215  | 0.215  | 0      |  |
| Grassland        | Modified grassland           | Poor     | 0.5653 | 0.5653 | 0      |  |
| Individual trees | Rural tree                   | Moderate | 0.0651 | 0.0325 | 0.0326 |  |
| Individual trees | Rural tree                   | Moderate | 0.0326 | 0.0326 |        |  |
| Individual trees | Rural tree                   | Moderate | 0.0733 | 0.0367 | 0.0366 |  |

**Table 2. Summary of hedgerow loss, retention & enhancement from baseline**

| Habitat Type    | Condition | Baseline Length (km) | Length Lost (km) | Length Retained (km) | Length Enhanced (km) |
|-----------------|-----------|----------------------|------------------|----------------------|----------------------|
| Native hedgerow | Moderate  | 0.012                | 0.012            | 0                    | -                    |

**Table 3. Summary of off-site habitat loss, retention & enhancement from baseline**

| Broad Habitat | Habitat Type       | Condition | Baseline Area (ha) | Area Lost (ha) | Area Retained (ha) | Area Enhanced (ha) |
|---------------|--------------------|-----------|--------------------|----------------|--------------------|--------------------|
| Grassland     | Modified grassland | Poor      | 0.7                | 0.7            |                    |                    |
| Grassland     | Modified grassland | Poor      | 0.27               | 0.27           |                    |                    |
| Grassland     | Modified grassland | Poor      | 0.18               | 0.18           |                    |                    |

### 2.1.2 Proposed post-development Habitats

A summary of the habitats and hedgerows to be created are presented in Table 4 below. The proposed habitat plan is shown in Figure 3.

**Table 4. Summary of created habitats**

| Broad Habitat Category | Habitat Type                   | Area (ha) | Condition Targeted       | Notes/ Reference                                             |
|------------------------|--------------------------------|-----------|--------------------------|--------------------------------------------------------------|
| Urban                  | Developed land; sealed surface | 0.4168    | N/A - Other              | Road infrastructure and proposed buildings.                  |
| Urban                  | Vegetated garden               | 0.1521    | Condition Assessment N/A | Vegetated gardens.                                           |
| Grassland              | Other neutral grassland        | 0.1044    | Moderate                 | Small pockets of wildflower grassland to be created on site. |

|                        |                                                |        |             |                                                        |
|------------------------|------------------------------------------------|--------|-------------|--------------------------------------------------------|
| Urban                  | Artificial<br>Unvegetated;<br>Unsealed surface | 0.017  | N/A - Other | Areas of grasscrete.                                   |
| Heathland<br>and shrub | Mixed scrub                                    | 0.1281 | Poor        | Areas of scrub to be planted within<br>woodland buffer |
| Individual<br>Trees    | Urban Tree                                     | 0.0489 | Moderate    | 12 individual trees to be planted across<br>the site.  |

### 2.1.3 Proposed off-site post-development Habitats

A summary of the habitats and hedgerows to be created off-site are presented in Table 5 below. The proposed habitat plan is shown in Figure 3.

**Table 5. Summary of created habitats**

| Broad<br>Habitat<br>Category | Habitat Type                           | Area (ha) | Condition<br>Targeted | Notes/ Reference                                                                                     |
|------------------------------|----------------------------------------|-----------|-----------------------|------------------------------------------------------------------------------------------------------|
| Woodland<br>and forest       | Lowland mixed<br>deciduous<br>woodland | 0.45      | Poor                  | Smaller grassland areas to be converted<br>into woodland, to complement the<br>surrounding habitats. |
| Lakes                        | Ponds (priority<br>habitat)            | 0.1       | Moderate              | One small pond to be created within the<br>western grassland area.                                   |
| Grassland                    | Other neutral<br>grassland             | 0.6       | Poor                  | Wildflower meadow to surround the pond<br>area.                                                      |

**Table 6. Summary of off-site created hedgerows**

| Hedge<br>Number | Habitat Type    | Area (ha) | Condition<br>Targeted | Notes/ Reference                                                            |
|-----------------|-----------------|-----------|-----------------------|-----------------------------------------------------------------------------|
| 1               | Native Hedgerow | 0.012     | Moderate              | Small strip of hedgerow to be created<br>within the western grassland area. |

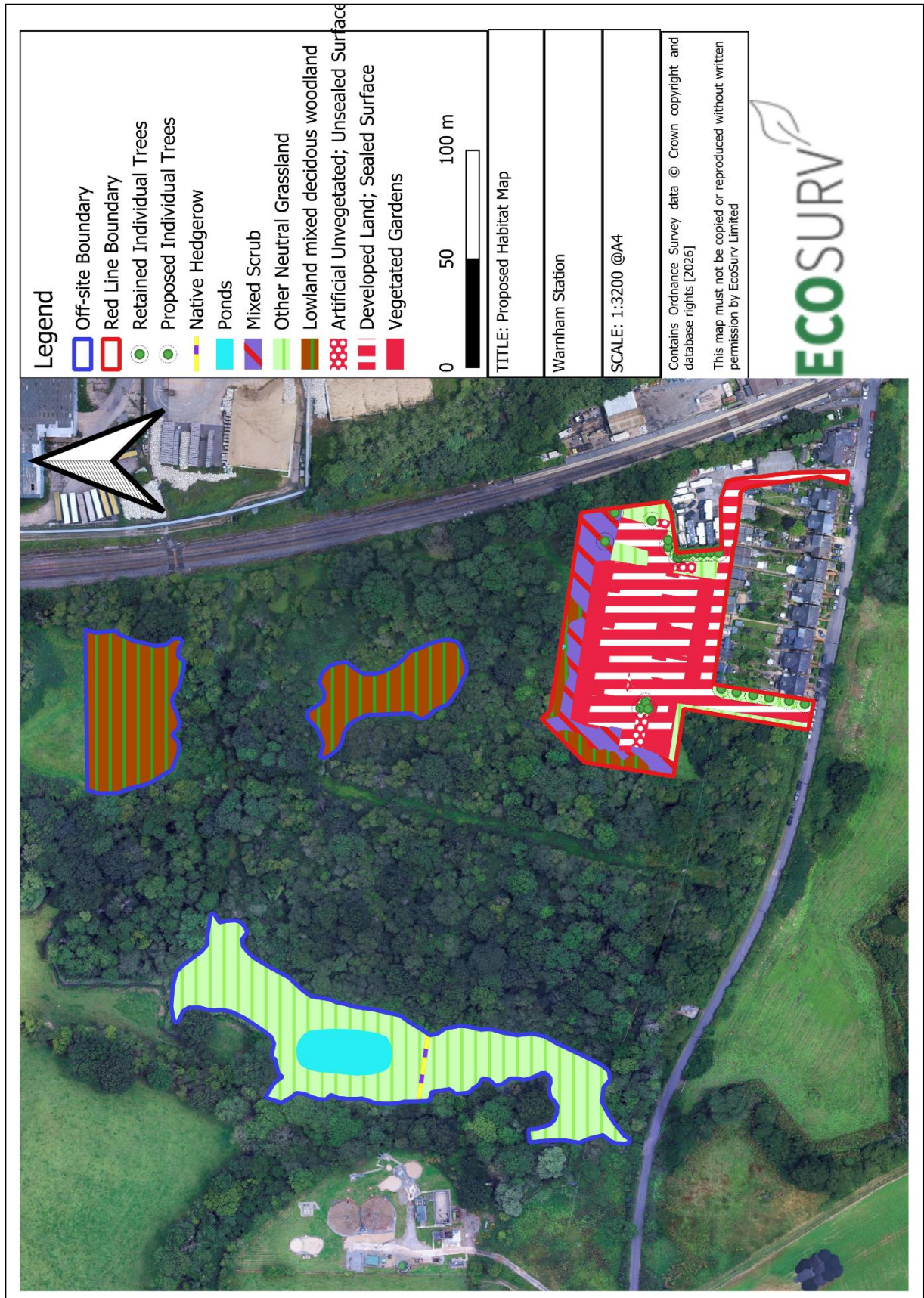


Figure 3. Proposed Habitat Plan.

## 2.2 Habitat and Condition Targets

### 2.2.1 Created and enhanced habitats

| Baseline Habitat Type | Target Habitat Type              | Baseline Condition | Targeted Condition | Years to Targeted Condition | Condition Assessment Targets                                                                                                                                                                                                                                                                                                                               | Comments                                                                                       |
|-----------------------|----------------------------------|--------------------|--------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| N/A                   | Other neutral grassland          | N/A                | Moderate           | 5                           | Moderate condition targeted by achieving a pass in criteria A (essential), B, D                                                                                                                                                                                                                                                                            | Species rich grassland sown around eastern portion of the site.                                |
| N/A                   | Other neutral grassland          | N/A                | Poor               | 2                           | Poor condition targeted however, conditions A, B & D should still be aimed to achieve in order to hit the UKhab specifications for this habitat.                                                                                                                                                                                                           | Species rich grassland sown off-site.                                                          |
| N/A                   | Mixed scrub                      | N/A                | Moderate           | 1                           | Moderate condition targeted by achieving a pass in criteria A B, C & D                                                                                                                                                                                                                                                                                     | Scrub habitat within buffer zone.                                                              |
| N/A                   | Lowland mixed deciduous woodland | N/A                | Poor               | 10                          | <p>Poor condition targeted however the following woodland condition indicators should be aimed in order to hit the UKhab specifications for this habitat.</p> <p>Moderate condition targeted by achieving the following scores for woodland condition indicators. A-2, B-3, C-3, D-3, E-3, F-3, G-2, H-2, I-1, J-2, K-1, L-2, M-2. (Overall score 29).</p> | Smaller grassland areas to be converted into woodland, to complement the surrounding habitats. |
| N/A                   | Urban/Rural tree                 | N/A                | Moderate           | 27                          | Moderate condition targeted by achieving a pass in criteria A, B, F                                                                                                                                                                                                                                                                                        | 24 individual trees to be planted on site.                                                     |

|     |                             |     |          |   |                                                                                                                                                                                      |                                                                                |
|-----|-----------------------------|-----|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|     |                             |     |          |   |                                                                                                                                                                                      | 30 small individual trees to be planted within the wildflower meadow off-site. |
| N/A | Ponds<br>(priority habitat) | N/A | Moderate | 3 | Moderate condition targeted by achieving a pass in criteria B C D F & G<br><br>Priority habitat status will be achieved through the active local GCN population colonising the pond. | One small pond to be created within the western grassland area.                |
| N/A | Native Hedgerow             | N/A | Moderate | 5 | Moderate condition will be targeted by achieving a pass in criteria A1, A2, B1,B2,C1, D2.                                                                                            | New hedgerow to be created within the western grassland area.                  |

## 3 TRENDS AND CONSTRAINTS

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### 3.1 Natural Trends

**Habitat Succession-** With inappropriate management, habitat succession through scrub and ruderal development would eventually result in the loss of the grassland habitats.

**Climate Change-** Changes in environmental conditions such as temperature and rainfall could affect the habitat range and continued survival of those notable species of flora and fauna present at the Site. Other species may also colonise the Site as a result.

**Seasonality-** Seasonality will affect the timings of when certain management and maintenance operations can be undertaken in order to minimise impacts on floral and faunal species, such as avoiding undertaking works within the north of the Site which may prevent seeds being able to develop and shed, and undertaking any pruning works etc. outside of the nesting bird period to ensure legal compliance.

**Water** – The sustainable and responsible use of water is a key consideration in landscape management. A balance must be struck between watering plants to help them establish and conserving water in times of drought. Close liaison between the contract administrator and contractor will ensure a satisfactory outcome is achieved.

**Plant pests and diseases** – An increase in pests and diseases has become apparent in recent years, due in part to greater globalisation of trade and the impact of climate change. Biosecurity measures will be put in place, such as planting a range of different plant genera and species; specifying British provenance stock and requesting full documentation of plant origin, consignment details, impact of pest / disease and/or plant passports.

**Timing of operations** – Hedgerow and tree works will take place outside of the bird nesting season, i.e. from October to February. In order to maximise the opportunity for birds to eat berries, hedgerow trimming will ideally take place in January / February. Removal of aquatic plants will take place during the winter months (October – January) to avoid the amphibian breeding season.

**Presence of invasive species** – If invasive species occur in the future, then appropriate management regimes will be put in place. Techniques for managing invasive species will be appropriate for the species in question and will minimise risk to non-target species. Herbicides must be approved for use near water. New biological controls for invasive species are being trialed and may be utilised in future if they are proven to be effective.

### 3.2 Human-Induced Trends

**Disturbance:** Due to its nature, there will be increased levels of human disturbance introduced to the Site as part of the Development.

**Artificial Lighting:** The presence of excess light spill upon ecologically sensitive areas within the Site has the potential to affect the behaviors and movement of nocturnal species. The lighting strategy to be designed for the site will therefore look to minimise such impacts as far as practicable.

**Littering:** Littering and the dumping/tipping of rubbish has the potential to influence the frequency of maintenance operations on Site. However regular litter picking will be undertaken within the retail aspect of the Development. Regular inspections will also ensure the removal of any such litter and fly tipping at the earliest opportunity.

### 3.3 Constraints

#### **Landownership and Future Development**

The Site is currently under the ownership of Wienerberger Ltd. Any future re-development of any elements of the Development is unlikely to significantly affect the biodiversity interests of the Site.

Should the Site be sold, appropriate arrangements would be made to ensure that this area is also safe guarded from future development and that appropriate management continues at least for the duration of this HMMP.

#### **Funding**

The on-site habitat management and maintenance is proposed to be undertaken by the owner or subsequent management company in which details will be provided in due course.

## 4 ROLES & RESPONSIBILITIES

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### 4.1 Management and Maintenance

Whilst under their ownership, the overall responsibility for the management and maintenance operations to be undertaken at the Site will be that of Wienerberger Ltd. The habitat creation and initial implementation are to be undertaken by an appointed landscape contractor. Subsequent management and monitoring operations detailed within this HMMP will be undertaken by the owner or subsequent management company in which details will be provided in due course.

#### Responsibility for Site Management

During the defects liability period (the 52 weeks post Practical Completion), landscape maintenance and replacement of failed planting will be completed by the appointed landscape contractor who has implemented the scheme.

Following the defects liability period Wienerberger Ltd will be responsible for operational management and maintenance of the landscape within the Site until the owner or subsequent management company is set by the developer who will then take on the operational responsibility of the Site.

Wienerberger Ltd and the subsequent management company (or their managing organisation) will require the necessary experience and certificates of competence to undertake landscape management operations on Site. Where practical, contractors with experience in biodiversity management will be sought Wienerberger Ltd and the subsequent management company will ensure that management complies with the guidelines set out in this HMMP.

#### Funding and Legal Considerations

A subsequent management company (SMC) will be set up to adopt the freehold of the landscaping. The legal structure of the SMC is yet to be determined but all owner occupiers and the registered provider of affordable housing will be members and contribute a service charge to cover management and maintenance costs of the landscaping associated with the development.

The SMC will be incorporated by developer who will nominate Directors with the election of residential Directors on completion of the scheme. At this point the SMC will then come into operation and be responsible for the Site. A managing agent for the SMC will be appointed by the developer.

#### Biosecurity

The management organisation should have sufficient awareness of new and ongoing biosecurity threats, and the necessary precautions to avoid their spread should be undertaken on sites where they are known or suspected.

New findings of suspected non-indigenous plant pests and diseases should be reported to the Plant Health and Seeds Inspectorate or Forestry Commission - Forest Research Tree Health Diagnostic and Advisory Service or both.

#### Preservation of Existing and Newly Planted Trees

A restrictive covenant should be written into the deeds of those properties supporting either newly planted or retained existing trees. The covenant should restrict property owners being able to cut down, damage or remove any existing tree or hedge on the property or any other plant planted pursuant to the requirements of the public authority.

## 5 IMPLEMENTATION & HABITAT CREATION

| Habitat Type                   | Description                                  | Evaluation                                                                                                                                                                             | Creation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Individual Trees</b>        | Proposed tree planting on-site & off-site.   | <p>Medium difficulty of creation.</p> <p>Proposed works readily achievable providing they are planted correctly and managed appropriately over the initial years of establishment.</p> | <p>Planting undertaken in accordance with BS8545:2014 Trees From nursery to independence in the landscape Recommendations:</p> <p>Container-grown trees can be planted all year round. In all cases, avoid days when the ground is frozen. In dry areas, late autumn planting is best for most species as this gives trees a chance to become established before spring droughts. In wet areas, early spring planting is best.</p> <p>Pit planting is the best method for large trees because it ensures plenty of room for the roots.</p> <p>Dig a hole big enough for all the roots to spread out. In poorer soils, dig a hole wider and deeper than needed for the roots, and partly refill. Consider adding a soil improver.</p> <p>Break up compacted soil to improve drainage and aerate the roots.</p> <p>Keep the top of the root ball level with the soil surface.</p> <p>Backfill and ensure a good contact between root and soil. Once the roots are covered continue treading more firmly until the hole is over-filled, leaving the soil slightly above the surrounding ground.</p> <p>Water the tree immediately and drench the soil with at least five litres of water. The amount will depend on the size of the tree being planted.</p> |
| <b>Other Neutral Grassland</b> | Species rich grassland both on and off-site. | <p>Medium difficulty of creation.</p> <p>Initial ground preparation, sowing, initial and ongoing management of particular</p>                                                          | <p>Ground preparation to include weed removal using repeated cultivation. Then plough or dig to bury any surface vegetation, harrow or rake to produce a medium tilth, and roll, or tread, to produce a firm surface.</p> <p>Areas of species rich grassland seed sowing to be profiled using exiting stockpiled subsoil from elsewhere on Site (preferably from beneath areas of existing sparse vegetation, which is likely</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                         |                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                                                       | importance.                                                                                                                                                                                             | <p>to contain a minimal existing seedbank). If subsoil is to be imported, this should be low nutrient and in accordance with BS8601:2013: (Multipurpose Grade) Specification for Subsoil.</p> <p>Following this, a minimum depth of 150mm of low nutrient topsoil would be placed on top of the subsoil in accordance with BS 3882:2015: (General Purpose Grade) Specifications for Topsoil and seeded with the proposed seed mix in two transverse directions at a sowing rate of 4g/m<sup>2</sup> and lightly raked.</p> <p>Seed to be applied by machine or broadcast by hand, then rolled or trod in to improve seed-soil contact.</p>                             |
| <b>Lowland mixed deciduous woodland</b> | New woodland planting off-site.                       | <p>Medium difficulty of creation.</p> <p>Proposed works readily achievable providing they are planted correctly and managed appropriately over the initial years of establishment.</p>                  | <p>Ground preparation to be carried out where necessary may include cultivating/ tilling to loosen any compacted soil. Additional compost to be applied if necessary, depending on condition of top soil.</p> <p>Planting undertaken in accordance with BS8545:2014 Trees From nursery to independence in the landscape Recommendations:</p> <p>Plant whips/ feathers with tree guards and supports between November and March, during dormant periods.</p> <p>Bark mulch will be maintained around the base of all young plants to suppress weed growth and will be maintained to a depth of 50mm, with the finished level flush with any adjacent hard landscape</p> |
| <b>Mixed Scrub</b>                      | Native tree and scrub planting within the development | <p>Low difficulty of creation.</p> <p>Proposed habitat readily achievable providing suitable species selection, correct planting and appropriate management over the initial years of establishment</p> | <p>Ground preparation to be carried out where necessary may include cultivating/ tilling to loosen any compacted soil. Additional compost to be applied if necessary, depending on condition of topsoil.</p> <p>Planting undertaken in accordance with BS8545:2014 <i>Trees From nursery to independence in the landscape Recommendations.</i></p> <p>Plant whips or feathered size trees with tree guards between November and March. Pit planting is the best method for larger trees because it ensures plenty of room for the roots.</p>                                                                                                                           |

|                                         |                                                              |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                                                              |                                                                                                                                                                                     | <p>Once planted cover the area around the guards with mulch to help suppress weed growth.</p> <p>Species composition as shown in section 10.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ponds<br/>(priority<br/>habitat)</b> | Pond creation off-site.                                      | <p>Medium difficulty of creation.</p> <p>Measures to promote successful establishment will be implemented through design, during creation, initial and subsequent maintenance.</p>  | <p>Pond to be created in late summer/ early autumn when ground conditions are likely to be at their driest.</p> <p>Ponds will have drawdown (&gt;2.5m) zone on sloping margins with a gradient between 1 in 10 to 1 in 20.</p> <p>Wide drawdown zone to encourage plant growth and facilitate the access/egress of amphibians and other wildlife.</p> <p>Undulating topography to be created within drawdown zones to encourage varied sward and vegetation structure.</p> <p>Deeper basin area to be constructed in pond &gt;1m in depth.</p> <p>Initial planting with a range of aquatic plants, including oxygenating species will be undertaken.</p> <p>Sowing of marginal areas with seed mix such as Emorsgate EP 1 will also be undertaken.</p> |
| <b>Native<br/>Hedgerow</b>              | Native hedgerow to be created within western grassland area. | <p>Low difficulty of creation.</p> <p>Proposed works readily achievable providing they are planted correctly and managed appropriately over the initial years of establishment.</p> | <p>Ground preparation to be carried out where necessary may include cultivating/ tilling to loosen any compacted soil. Additional compost to be applied if necessary, depending on condition of topsoil.</p> <p>Prepare the ground by rotavating (digging over) a strip 60-90cm wide and one spade blade deep. This should remove existing vegetation like grass and weeds which will compete with young hedge plants for moisture and nutrients.</p> <p>Planting undertaken in accordance with BS8545:2014 <i>Trees From nursery to independence in the landscape Recommendations</i>.</p> <p>Plant whips or feathered size trees with tree guards between November and March.</p>                                                                    |

|  |  |  |                                                                                                  |
|--|--|--|--------------------------------------------------------------------------------------------------|
|  |  |  | Once planted the area around the guards will be covered with mulch to help suppress weed growth. |
|--|--|--|--------------------------------------------------------------------------------------------------|

## 6 HABITAT MANAGEMENT PRESCRIPTIONS

| Habitat Type            | Initial Management (First 5 years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Subsequent Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remediation                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Individual Trees</b> | <p>Clear grass and weeds for an area of approximately 1m in diameter around the tree and apply a layer of mulch.</p> <p>Bark mulch will be maintained around the base of all young plants to suppress weed growth and will be maintained to a depth of 50mm, with the finished level flush with any adjacent hard landscape.</p> <p>If planting is in late spring or summer, container-grown trees should be watered during dry spells for the first growing season</p> <p>Annual checks will be made for the first 5 years of new planting to;</p> <ul style="list-style-type: none"> <li>- Identify diseased or dead plants, which will be removed and replaced accordingly</li> <li>- Inspect and adjust tree guards and support system</li> </ul> <p>Weed control will be undertaken between April and September and where feasible should be undertaken by hand pulling and should remove</p> | <p>Tree Pruning and care as required.</p> <p>Weed control as required.</p> <p>Pruning will be undertaken to clear deadwood, promote healthy growth and produce desired growth of flowers, fruit, foliage or winter colour as appropriate. Pruning will also include for clearing out crossing and damaged branches.</p> <p>Branches to be removed should be taken back to an outward facing node and cut cleanly approximately one inch above on a diagonal angle.</p> <p>Pruning will be undertaken carefully by manual means with appropriate hand tools such as secateurs or loppers; which should be regularly sharpened and cleaned after use to prevent the potential spread of disease.</p> | <p>Dead or diseased plants identified during annual checks to be replaced.</p> <p>Annual checks to look out for signs of drought stress and determine requirement for supplementary watering.</p> <p>Failed planting will be removed and replaced with the same species in the first five years following implementation. If there is a continuous failure of a certain species, this will be reviewed and, if appropriate, an alternate appropriate species will be planted instead.</p> |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | all noxious weeds such as docks, thistles, nettles, ragwort and willowherb.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Other Neutral Grassland</b> | <p><b>1<sup>st</sup> Year</b></p> <p>Most of the sown meadow species are perennial and are slow to establish. Soon after sowing there will be a flush of annual weeds, arising from the soil seed bank. These weeds can look unsightly, but they will offer shelter to the sown seedlings, are great for bugs, and they will die before the year is out. Resist cutting the annual weeds until mid to late summer, especially if the mixture contains Yellow Rattle, or has been sown with a nurse of cornfield annuals. Then cut, remove and compost. Early August is a good time. This will reveal the young meadow, which can then be kept short by grazing or mowing through to the end of March of the following year. Carefully dig out any residual perennial weeds such as docks.</p> <p>During the 12 months following initial seeding, water wildflower grass areas during periods of extreme drought (4 or more weeks without substantial rainfall) to a maximum of 15 occasions. To aid the natural establishment of grass areas, only water where unavoidable, where the grass is going brown and appears to</p> | <p>The best results are usually obtained by traditional meadow management based around a main summer hay cut in combination with autumn and possibly spring mowing or grazing.</p> <p>Cut once a year in late summer/early autumn (August/September) once flowers have set seed. Cut to a height of 100mm and remove arisings. Delay cutting of grass in case of extreme drought.</p> <p>Leave approx. 1/3 of each grassed areas unmown, altering the location each year. Creating a varied sward height comprising at least 20% of area less than 7cm and at least 20% of area greater than 7cm.</p> <p>Remove any noxious weeds by hand.</p> <p>Unwanted perennial weeds (docks, thistles) may need control by selective removal before seeding. To control scrub and bramble development, tussocky areas may need cutting every 2-3 years between October and February. For wildlife this cutting is best done on a rotational basis so that no more than a third of the area is cut in any one year leaving part as an undisturbed refuge.</p> | <p>If a significant number of seeds fail to establish these would be replaced following consultation and review of the suitability of the seed mix</p> <p>Control scrub and pernicious/competitive weeds as required following the first year of management to maintain the diversity of the grassland. Should excessive weed growth continue then spot treatment with selective herbicide may be required.</p> <p>Fertiliser application is to be avoided</p> <p>Any non-native invasive plant species to be removed.</p> <p>Should bracken establish, this should be controlled/treated using appropriate herbicidal or mechanical methods</p> |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                      |                                                                         |
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|                            | <p>be suffering from severe drought stress. When watering, water to field capacity (minimum 20L/m<sup>2</sup>) in the morning or in the evening to reduce water evaporation, when the water is more likely to reach the roots.</p> <p><b><u>Years 2 - 4</u></b></p> <p>Cut once a year in late summer/early autumn (August September) once flowers have set seed. Cut to a height of 100mm and remove arisings. Delay cutting of grass in cases of extreme drought. To provide over-wintering opportunities for invertebrates, leave approx. 1/3 of each grassed areas unmown, altering the location each year.</p> <p>Remove any noxious weeds by hand.</p> <p>Do not apply any herbicides, pesticides, or fertilisers to the grassland.</p> <p>These areas will be subject to annual checks to ensure that the species sown are present within these areas. Invasive species i.e., Indian balsam <i>Impatiens glandulifera</i> or species indicative of sub-optimal condition will be removed where found.</p> |                                                                                                                                                      |                                                                         |
| <b>Woodland management</b> | Annual checks will be made for the first 5 years of new planting to;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trees and shrubs in woodland blocks will be thinned and/or coppiced once between years 10 and 15 by removing weaker specimens. This will allow space | Dead or diseased plants identified during annual checks to be replaced. |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                    | <p>- Identify diseased or dead plants, which will be removed and replaced accordingly</p> <p>- Inspect and adjust tree guards and support system</p> <p>Weed control will be undertaken between April and September and where feasible should be undertaken by hand pulling and should remove all noxious weeds such as docks, thistles, nettles, ragwort and willowherb.</p> <p>In certain instances, herbicide maybe the most effective measure to remove unwanted species. Where herbicide application is needed this should be in small, controlled areas and should only target the undesirable species. Shields should be used as appropriate to prevent drift into sensitive areas. Herbicides should comply with the Control of Pesticides Regulations as amended (1997) and be on the current list of approved products.</p> <p>Stakes, ties and guards will be removed at the end of the 5-year establishment maintenance period.</p> | <p>for the remaining trees to grow to full capacity and will ensure a diverse structure of size, species and age of trees. It will also allow more light to reach the woodland floor.</p> <p>Arisings will be left in windrows or log piles within the woodland blocks unless there is a large quantity of material in which case it will be removed from site. Any diseased wood should be removed from site.</p> <p>Further thinning will be carried out after year 20 if necessary.</p> <p>All tree works will be carried out with consideration of the potential presence of legally protected and priority species. Prior to commencement of any arboricultural or thinning works any trees with the potential to support roosting bats will be inspected by a qualified ecologist. Works will be scheduled to avoid the bird nesting season (March to August). Deadwood will be retained to create additional log/brush piles and potential hibernation sites for fauna.</p> | <p>Annual checks to look out for signs of drought stress and determine requirement for supplementary watering.</p> <p>Failed planting will be removed and replaced with the same species in the first five years following implementation. If there is a continuous failure of a certain species, this will be reviewed and, if appropriate, an alternate appropriate species will be planted instead</p> <p>Maintain open space to &lt;20%. Replanting any extensive areas beyond this threshold.</p> <p>Remove and treat any Schedule 9 listed plant species. Himalayan balsam &amp; giant hogweed where present to be removed.</p> |
| <b>Mixed Scrub</b> | <p>Annual checks will be made for the first 5 years of new planting to;</p> <p>- Identify diseased or dead plants, which will be removed and replaced accordingly</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>Every 3 years, starting in year 8, shrubs will be cut back, and any suckers / saplings will be removed to prevent encroachment into the surrounding wildflower areas. Arisings will be removed from site.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Dead or diseased plants identified during annual checks to be replaced.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                 | <ul style="list-style-type: none"> <li>- Inspect and adjust tree guards and support system</li> <li>- Spray around the tree guard with an approved herbicide or manually removed weed growth, in early spring and mid-summer to suppress any weed growth</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Works will be scheduled to avoid the bird nesting season (March to August).</p> <p>Shrubs will be thinned out approximately every 9 years (years 8, 17 and 26). To allow for new growth whilst maintaining coverage of mature specimens, Arisings will be removed from site.</p> <p>Scrub edge allowed to develop, including scattered scrub species and tall grasses/ herbaceous perennial vegetation.</p> <p>Small rides and clearings to be created within areas of scrub to provide sheltered edges.</p>                                                                                                                                                                        | <p>Annual checks to look out for signs of drought stress and determine requirement for supplementary watering.</p> <p>Any invasive non-native plant species to be removed/ treated in accordance with best practices for that specific species.</p>                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Ponds (priority habitat)</b> | <p>Annual checks to ensure establishment of pond vegetation and the hydrological functioning of the ponds to be carried out for first 5 years.</p> <p>Annual clearance of blanket weed if found to be present together with standard methodology to reduce the nutrient load within the ponds will be undertaken, over first 5 years.</p> <p>Inspections to the inlets and outlets to check for blockages caused by silt, vegetation, litter and other debris should be undertaken frequently.</p> <p>eDNA testing for GCN should be undertaken after 5 years to determine whether the pond has been colonised by the species. This can only be done from mid-April – June.</p> | <p>Should the ponds show evidence of silting this will be removed over a period of 3 years with 1/3 of the silt being removed annually again during the late Autumn / Winter period.</p> <p>Variation in structure can be achieved by cutting back and removing short sections of vegetation every 2-3 years in rotation.</p> <p>Wedges of vegetation to be removed in phases. Arisings to be left by side of pond to allow animals to disperse. Selective thinning of dense stands of single species (e.g., yellow iris) may also be undertaken.</p> <p>Any litter should be removed frequently from site as these sites can be a good opportunity for littering and fly tipping.</p> | <p>Remedial action to be taken as necessary. Correct installation and management should result in establishment of aquatic vegetation and pond functioning.</p> <p>New ponds to be created if ponds fail due to drainage issues.</p> <p>Remedial action if water quality is poor to incorporate appropriate methods such as treatment through reedbeds prior to feeding ponds.</p> <p>Any excess aquatic plants, invasive non-native species, algae, blanketweed etc. will be removed from the balancing ponds to retain open water and prevent the ponds choking. Vegetation should be left at the edge of the water for 1 day to allow</p> |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                              | Inspections to the inlets and outlets to check for blockages caused by silt, vegetation, litter and other debris should be undertaken frequently.                                                                                                                                                                                                                                     | creatures to crawl back into the water and then removed from site to prevent nutrient build-up.                                                                                                   |
| <b>Native Hedgerow with Trees</b> | <p>Annual checks will be made for the first 5 years of new planting to;</p> <ul style="list-style-type: none"> <li>- Identify diseased or dead plants, which will be removed and replaced accordingly</li> <li>- Inspect and adjust tree guards and support system</li> <li>- Spray around the tree guard with an approved herbicide or manually removed weed growth, in early spring and mid-summer to suppress any weed growth.</li> </ul> | <p>Hedgerow will be allowed to achieve a height of 4m+ before layering would be undertaken.</p> <p>Subsequent management would be undertaken to maintain the hedgerows in a stock proof condition free from gaps.</p> <p>1m margin from outer edge of hedgerow to be maintained and perennial herbaceous species allowed to establish.</p> <p>Maintain height and width &gt;1.5m.</p> | <p>Dead or diseased plants identified during annual checks to be replaced.</p> <p>Annual checks to look out for signs of drought stress and determine requirement for supplementary watering.</p> |

## 7 WORKS SCHEDULE

| Habitat                              | Management/ Monitoring Prescription                                                                                                               | Timescale (years) |   |   |   |   |      |       |       |       |       | Responsibility |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---|---|---|---|------|-------|-------|-------|-------|----------------|
|                                      |                                                                                                                                                   | 1                 | 2 | 3 | 4 | 5 | 6-10 | 11-15 | 16-20 | 21-25 | 25-30 |                |
|                                      |                                                                                                                                                   |                   |   |   |   |   |      |       |       |       |       |                |
| <b>General Requirements</b>          | Keep planting areas neat, weed and litter free to aid initial and ongoing establishment                                                           | ✓                 | ✓ | ✓ | ✓ | ✓ | ✓    | ✓     | ✓     | ✓     | ✓     | SMC            |
|                                      | Preventative and protective measures i.e., buffer zones, post and rail fencing to be established around newly created habitat during construction | ✓                 | ✓ | ✓ | ✓ | ✓ | ✓    | ✓     | ✓     | ✓     | ✓     | SMC            |
|                                      | Seed, tree and shrub stock to be sourced locally where possible                                                                                   | ✓                 | ✓ | ✓ | ✓ | ✓ | ✓    | ✓     | ✓     | ✓     | ✓     | SMC            |
|                                      |                                                                                                                                                   |                   |   |   |   |   |      |       |       |       |       |                |
| <b>Bird Boxes</b>                    | Clean out boxes annually including removal of old eggs and old nests                                                                              | ✓                 | ✓ | ✓ | ✓ | ✓ | ✓    | -     | -     | -     | -     | SMC            |
|                                      | Replacement of damaged boxes                                                                                                                      | ✓                 | ✓ | ✓ | ✓ | ✓ | ✓    | -     | -     | -     | -     | SMC            |
|                                      |                                                                                                                                                   |                   |   |   |   |   |      |       |       |       |       |                |
| <b>Bat Boxes</b>                     | Damaged boxes to be replaced by licensed ecologist                                                                                                | ✓                 | ✓ | ✓ | ✓ | ✓ | ✓    | -     | -     | -     | -     | SMC            |
|                                      |                                                                                                                                                   |                   |   |   |   |   |      |       |       |       |       |                |
| <b>Individual Trees/ Urban Trees</b> | Annual inspection for dead, diseased or damaged specimens undertaken during summer months                                                         | ✓                 | ✓ | ✓ | ✓ | ✓ | -    | -     | -     | -     | -     | SMC            |
|                                      | Repair damaged or defective stakes, guards and ties                                                                                               | ✓                 | ✓ | ✓ | ✓ | ✓ | -    | -     | -     | -     | -     | SMC            |
|                                      | Maintain 1000mm diameter area of mulch                                                                                                            | ✓                 | ✓ | ✓ | ✓ | ✓ | -    | -     | -     | -     | -     | SMC            |
|                                      | Weed removal to base of trees by hand or suitable treatment                                                                                       | ✓                 | ✓ | ✓ | ✓ | ✓ | -    | -     | -     | -     | -     | SMC            |

|                                |                                                                                                                                                                                                                    |                          |   |   |   |   |   |   |   |   |   |               |
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|                                | Water during establishment period and/ or during prolonged periods of dry weather                                                                                                                                  | ✓                        | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC           |
|                                | Stakes, ties and guards will be removed at the end of the 5-year establishment maintenance period.                                                                                                                 | -                        | - | - | - | ✓ | - | - | - | - | - | SMC           |
|                                | Planting of replacement bare root tree stock to be undertaken October - February                                                                                                                                   | ✓                        | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC           |
|                                | Any works to be undertaken outside of nesting bird season or following check for nesting birds                                                                                                                     | ✓                        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC           |
|                                |                                                                                                                                                                                                                    |                          |   |   |   |   |   |   |   |   |   |               |
| <b>Other Neutral Grassland</b> | Seed is best sown in the autumn or spring but can be sown at other times of the year if there is sufficient warmth and moisture. The seed must be surface sown and can be applied by machine or broadcast by hand. | ✓                        | - | - | - | - | - | - | - | - | - | SMC           |
|                                | Allow perennial species to establish under the shelter of any initial annual weed growth from the residual seed bank within the soil.                                                                              | ✓                        | - | - | - | - | - | - | - | - | - | SMC           |
|                                | Clearance of weed growth late summer (august) and removal of compost. Maintain low sward height through to late march following year and remove residual weed species                                              | ✓                        | ✓ | - | - | - | - | - | - | - | - | SMC           |
|                                | Rotational cutting of sward length every 2-3 years ensuring no more than a third of the overall area is cut at any one time.                                                                                       | -                        | - | ✓ | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC           |
|                                | Avoid cutting between late April                                                                                                                                                                                   | <input type="checkbox"/> | - | - | - | - | - | - | - | - | - | Contractor to |

|                            |                                                                                                                                        |   |   |   |   |   |   |   |   |   |   |                      |
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|                            | and mid-July if seed mix contains yellow rattle and sown in autumn.                                                                    |   |   |   |   |   |   |   |   |   |   | comply               |
|                            | Bi-annual cuts in subsequent years to 50mm in March / April and late July/August                                                       | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Contractor to comply |
|                            | Selective removal of any encroaching scrub and species indicative of sub-optimal condition where necessary                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC                  |
|                            | All grassed areas shall be watered during dry weather until established (12 months from seeding) with subsequent watering as required. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Contractor to comply |
|                            |                                                                                                                                        |   |   |   |   |   |   |   |   |   |   |                      |
| <b>Woodland management</b> | Annual inspection for dead, diseased or damaged specimens undertaken during summer months                                              | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Re-firm trees where required. Repair damaged or defective stakes, guards and ties                                                      | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Maintain 1000mm diameter area of mulch                                                                                                 | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Weed removal to base of trees by hand, strimming or suitable herbicide treatment                                                       | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Water during establishment period and/ or during prolonged periods of dry weather                                                      | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Stakes, ties and guards will be removed at the end of the 5-year establishment maintenance period.                                     | - | - | - | - | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Planting of replacement bare root tree stock to be undertaken October - February                                                       | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Appointed contractor |
|                            | Initial thinning works. Once                                                                                                           | - | - | - | - | - | - | ✓ | - | - | - | Appointed            |

|                                 |                                                                                                                                        |   |   |   |   |   |   |   |   |   |   |                      |
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|                                 | between years 10 – 15.                                                                                                                 |   |   |   |   |   |   |   |   |   |   | contractor           |
|                                 | Subsequent thinning works and removal of weaker specimens after 20+ years.                                                             | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | Appointed contractor |
|                                 | Any works to be undertaken outside of nesting bird season or following check for nesting birds                                         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Appointed contractor |
|                                 |                                                                                                                                        |   |   |   |   |   |   |   |   |   |   |                      |
| <b>Ponds (priority habitat)</b> | Annual Inspection of pond vegetation, water quality and siltation                                                                      | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC                  |
|                                 | Removal of any invasive weeds or diseased plant stock                                                                                  | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC                  |
|                                 | Installation of barley straw bales to inhibit growth of algal blooms/ blanket weed - as required                                       | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC                  |
|                                 | Cut back of annual weed growth to encourage establishment perennial ground cover                                                       | ✓ | ✓ | - | - | - | - | - | - | - | - | SMC                  |
|                                 | Replacement or supplementary planting to be carried out where necessary using locally sourced plants                                   | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC                  |
|                                 | Rotational management of pond edge areas to promote varied vegetation structure                                                        | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | SMC                  |
|                                 | Selective thinning of any dense strands of vegetation establishing to the detriment of the pond - undertaken over autumn/winter months | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC                  |
|                                 | Removal of encroaching scrub vegetation or shade trees where necessary                                                                 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC                  |
|                                 | eDNA testing of pond to determine                                                                                                      |   |   |   |   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC                  |

|                                                                                 | GCN presence/absence.                                                                          |   |   |   |   |   |   |   |   |   |   |     |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|-----|
|                                                                                 |                                                                                                |   |   |   |   |   |   |   |   |   |   |     |
| <b>Species-rich Native Hedgerow and Species-rich Native Hedgerow with Trees</b> | Annual inspection for dead, diseased or damaged specimens undertaken during summer months      | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Repair damaged or defective stakes, guards and ties                                            | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Weed removal to base of trees by hand or suitable treatment                                    | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Water during establishment period and/ or during prolonged periods of dry weather              | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Any works to be undertaken outside of nesting bird season or following check for nesting birds | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC |
|                                                                                 | Planting of replacement bare root tree stock to be undertaken October - February               | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Hedgerow allowed to achieve height of 4m before layering                                       | - | - | - | - | - | ✓ | ✓ | - | - | - | SMC |
|                                                                                 | Subsequent management to maintain hedge in good condition as necessary                         | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | SMC |
|                                                                                 |                                                                                                |   |   |   |   |   |   |   |   |   |   |     |
| <b>Mixed Scrub</b>                                                              | Annual inspection for dead, diseased or damaged specimens undertaken during summer months      | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Re-firm trees where required. Repair damaged or defective stakes, guards and ties              | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Maintain 1000mm diameter area of mulch                                                         | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|                                                                                 | Weed removal to base of trees by hand, strimming or suitable                                   | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |

|  |                                                                                                    |   |   |   |   |   |   |   |   |   |   |     |
|--|----------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|-----|
|  | herbicide treatment                                                                                |   |   |   |   |   |   |   |   |   |   |     |
|  | Water during establishment period and/ or during prolonged periods of dry weather                  | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|  | Stakes, ties and guards will be removed at the end of the 5-year establishment maintenance period. | - | - | - | - | ✓ | - | - | - | - | - | SMC |
|  | Planting of replacement bare root tree stock to be undertaken October - February                   | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | SMC |
|  | From year 8, cut back every 3 years                                                                | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | SMC |
|  | Thinning works undertaken every 10years                                                            | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | SMC |
|  | Any works to be undertaken outside of nesting bird season or following check for nesting birds     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SMC |

## 8 MONITORING SCHEDULE

### 8.1 Monitoring and Review

The HMMP will be reviewed on an annual basis by the appointed SMC and other key partners (including an appropriately qualified ecologist) to ensure that the plan is meeting the original management objectives and responding to the developing needs of the Site.

The annual review will identify the need for additional maintenance operations and inform future management decisions. This can be achieved by:

- ❖ Quarterly formal site inspections by the SMC to assess the appointed landscaper's contractor's quality standards and deliverables in line with this management plan;
- ❖ An annual site meeting with the SMC and stakeholders and the appointed contractor to assess quality standards and deliverables in line with this management plan; and
- ❖ Ad hoc unannounced inspections by the SMC to review quality of maintenance work and any potential Health and Safety issues.

It is also recommended the SMC produce a cash-flow forecast for the next 3-5 years but that can be flexible enough to respond to changing circumstances. This will ensure sufficient funds are in place to deliver long-term management of the Site.

### 8.2 Reporting

The SMC will produce an annual report, summarising the management of the Site over the last year. The report will include the key measures achieved, actions going forward and any updates to the maintenance operations if required, and how this information will be communicated to stakeholders and resident/friend's groups.

Following the undertaking of monitoring visits and annual management reports, subsequent reporting would be undertaken by an appointed ecologist with input from the monitoring findings of the SMC, a copy of which would be provided to Horsham District Council. Such report should comprise the following:

- ❖ Botanical monitoring of the Site would be undertaken by a suitably qualified ecologist in consultation with Horsham District Council. A habitat assessment and monitoring report should be produced annually during the first five years of operation in order to document the establishment of the planting. The assessment should highlight the need for further management, for example, the trimming of hedgerows after four years, or changes to the frequency of current management regimes of the meadow to maximise the conservation value of the habitats. The report should also include any further recommendations that need to be implemented to achieve the aims of this HMMP.
  - New planting should be assessed twice a year (once in the summer to assess foliage condition and once in the Winter to assess structural condition).

After the first five years, the habitats on site should be monitored every 5 years, with the last visit being 30 years after the development has been completed. The results from the monitoring should be presented in a Long-Term Monitoring Report to inform future management at the site

### 8.3 Monitoring Methods and Intervals

| Habitat Type                   | Target Condition | Years to Target | Condition Targets                                                                                                                                                                                                                                         | Condition Criteria                                                                                                                                                                                                                                                                                 | Monitoring Methods                                                                                                                                                                                                                                                                                                                                       | Monitoring Interval and Timing                                                                                                                                    |
|--------------------------------|------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other neutral grassland</b> | Moderate         | 5               | Moderate condition targeted by achieving a pass in criteria A (essential), B, D                                                                                                                                                                           | <p>A: The grassland is a good representation of the 'Other Neutral' UK Hab definition.</p> <p>B: Sward Height is varied (at least 20% of sward less than 7cm and at least 20% more than 7cm)</p> <p>D: Cover of bracken is less than 20% and cover of scrub including bramble is less than 5%.</p> | <p>Undertake quadrat sampling to identify the habitat type that is establishing and then number of species per m<sup>2</sup>.</p> <p>Estimate percentage of bare ground, bramble and bracken cover.</p> <p>Collect a botanical species list and abundance data using (DAFOR or DOMIN) across grassland to check against relevant UK HABS definition.</p> | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August</p>                                                         |
| <b>Other neutral grassland</b> | Poor             | 2               | Poor condition targeted however, conditions A, B & D should still be aimed to achieve in order to hit the UKhab specifications for this habitat.                                                                                                          | <p>A: The grassland is a good representation of the 'Other Neutral' UK Hab definition.</p> <p>B: Sward Height is varied (at least 20% of sward less than 7cm and at least 20% more than 7cm)</p> <p>D: Cover of bracken is less than 20% and cover of scrub including bramble is less than 5%.</p> | <p>Undertake quadrat sampling to identify the habitat type that is establishing and then number of species per m<sup>2</sup>.</p> <p>Estimate percentage of bare ground, bramble and bracken cover.</p> <p>Collect a botanical species list and abundance data using (DAFOR or DOMIN) across grassland to check against relevant UK HABS definition.</p> | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August</p>                                                         |
| <b>Other woodland; mixed</b>   | Poor             | 5               | <p>Poor condition targeted however the following woodland condition indicators should be aimed in order to hit the UKhab specifications for this habitat.</p> <p>Moderate condition targeted by achieving the following scores for woodland condition</p> | <p>A-2: Two ages classes present</p> <p>B-3: No significant browsing damage evident in woodland</p> <p>C-3: No invasive species present in woodland</p> <p>D-3: Five or more native tree or shrub species</p>                                                                                      | <p>Undertake habitat survey to UK HABS standard. To include condition assessment in keeping with the Woodland Wildlife Toolkit <a href="http://sylva.org.uk">sylva.org.uk</a> and associated EWBG indicators, to include species composition, presence of non-native invasive species, woodland structure and ground flora communities.</p>              | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August.</p> <p>Woodland ground flora survey to be conducted in</p> |

|                    |          |   |                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                       |                                                                                                            |
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|                    |          |   | <p>indicators. A-2, B-3, C-3, D-3, E-3, F-3, G-2, H-2, I-1, J-2, K-1, L-2, M-2. (Overall score 29).</p> | <p>E-3 &gt;80% of canopy trees and understorey shrubs are native</p> <p>F-3: 0-20 % open space permitted</p> <p>G-2: One or two regenerative classes present.</p> <p>H-2: 11-25% mortality/crown dieback or low risk pest/disease present.</p> <p>I-1: No recognisable woodland NVC plant community at ground layer present</p> <p>J-2: Two storeys across all survey plots.</p> <p>K-1: No veteran trees present</p> <p>L-2: 25-50% of survey plots within woodland parcel have deadwood (standing or fallen)</p> <p>M-2: Less than 20% of woodland areas has damaged ground</p> |                                                                                                                                       | <p>March/April every 5 years.</p>                                                                          |
| <b>Mixed scrub</b> | Moderate | 1 | <p>Good condition targeted by achieving a pass in criteria A, B, C &amp; D</p>                          | <p>A: The scrub is a good representation of the UK Hab type (Mixed Scrub). At least 80% is native, with at least 3 woody species and no single species occupies more than 75% cover.</p> <p>B: Seedlings, saplings, young shrubs and mature shrubs are all present.</p> <p>C: There is an absence of non-native plant species and species indicative of sub-</p>                                                                                                                                                                                                                  | <p>Undertake habitat survey to UK HABS standard. Record species composition, health, and presence of non-native invasive species.</p> | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August.</p> |

|                                         |      |    |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                              |
|-----------------------------------------|------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |      |    |                                                                                                                                                                                                                                                                                                                                                            | <p>optimal condition make up less than 5% ground cover</p> <p>D: The scrub has well developed edge with scattered scrub, tall grassland and/or forbs present between scrub and adjacent habitat.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                              |
| <b>Lowland mixed deciduous woodland</b> | Poor | 10 | <p>Poor condition targeted however the following woodland condition indicators should be aimed in order to hit the UKhab specifications for this habitat.</p> <p>Moderate condition targeted by achieving the following scores for woodland condition indicators. A-2, B-3, C-3, D-3, E-3, F-3, G-2, H-2, I-1, J-2, K-1, L-2, M-2. (Overall score 29).</p> | <p>A-2: Two ages classes present</p> <p>B-3: No significant browsing damage evident in woodland</p> <p>C-3: No invasive species present in woodland</p> <p>D-3: Five or more native tree or shrub species</p> <p>E-3 &gt;80% of canopy trees and understorey shrubs are native</p> <p>F-3: 0-20 % open space permitted</p> <p>G-2: One or two regenerative classes present.</p> <p>H-2: 11-25% mortality/crown dieback or low risk pest/disease present.</p> <p>I-1: No recognisable woodland NVC plant community at ground layer present</p> <p>J-2: Two storeys across all survey plots.</p> <p>K-1: No veteran trees present</p> <p>L-2: 25-50% of survey plots within woodland parcel have deadwood (standing or fallen)</p> | <p>Undertake habitat survey to UK HABS standard. To include condition assessment in keeping with the Woodland Wildlife Toolkit <a href="http://sylva.org.uk">sylva.org.uk</a> and associated EWBG indicators, to include species composition, presence of non-native invasive species, woodland structure and ground flora communities.</p> | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August.</p> <p>Woodland ground flora survey to be conducted in March/April every 5 years.</p> |

|                                      |          |    |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                    |
|--------------------------------------|----------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |          |    |                                                                                                                                                                                                 | M-2: Less than 20% of woodland areas has damaged ground                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                    |
| <b>Pond (priority habitat)</b>       | Moderate | 3  | <p>Moderate condition targeted by achieving a pass in criteria B C D F &amp; G</p> <p>Priority habitat status will be achieved through the active local GCN population colonising the pond.</p> | <p>B: There is semi-natural habitat (moderate distinctiveness or above) completely surrounding the pond, for at least 10m from the pond edge for its entire perimeter.</p> <p>C: Less than 10% of the water surface is covered with duckweed <i>Lemna spp.</i> or filamentous algae.</p> <p>D: The pond is not artificially connected to other waterbodies, such as agricultural ditches or artificial pipework.</p> <p>F: There is an absence of listed non-native plant and animal species.</p> <p>G: The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.</p> | <p>Undertake habitat walkover to collect a botanical species list and abundance data using (DAFOR or DOMIN). Habitat notes to include structural diversity/composition of the habitat.</p> <p>Identify presence of any invasive non-native plant species listed on schedule 9 of the WCA and others which are detrimental to native wildlife.</p> <p>Estimate percentage of duckweed or filamentous algae coverage.</p> | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August.</p>                                                                                                         |
| <b>Individual Trees/ Urban Trees</b> | Moderate | 27 | Moderate condition targeted criteria A, B, F                                                                                                                                                    | <p>A: The tree is a native species</p> <p>B: Continuous canopy. Automatically passed for individual trees.</p> <p>F: More than 20% of tree canopy oversailing vegetation beneath</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Bi-annually from years 1-5, then every 5 years.</p> <p>New planting should be assessed twice a year (once in the summer to assess foliage condition and once in the Winter to assess structural condition).</p>                                                                                                                                                                                                      | <p>Bi-annually from years 1-5, then every 5 years.</p> <p>New planting should be assessed twice a year (once in the summer to assess foliage condition and once in the Winter to assess structural condition).</p> |

|                        |          |   |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |
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| <b>Native Hedgerow</b> | Moderate | 5 | Moderate condition will be targeted by achieving a pass in criteria A1, A2, B1,B2,C1, D2. | <p>A1: Height greater than 1.5m average along length</p> <p>A2: Width &gt;1.5m average along length</p> <p>B1: Gaps between ground and base of canopy &lt;0.5m for &gt;90% of length.</p> <p>B2: Gaps make up &lt;10% of total length; and no canopy gaps&gt;5m.</p> <p>C1: &gt;1m width of undisturbed ground with perennial herbs for&gt;90% of hedgerow. Measured from outer edge. Present to at least one side.</p> <p>D2: &gt;90% of hedgerow or undisturbed ground is free of damage caused by human activities.</p> | <p>Annual checks to ensure establishment of new planting over years 1-5.</p> <p>Surveys at years 5,10, 15, 20, 25 &amp; 30 to measure height, width and gaps.</p> <p>Assess extent of undisturbed ground to adjacent to hedgerow. To include width and presence of perennial herbs.</p> <p>Assess extent of any damaged caused by human activities</p> | <p>Annually from years 1-5, then every 5 years.</p> <p>Surveys to be completed between May and August.</p> |
|------------------------|----------|---|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

## 8.4 Monitoring Reports

| Organisation Responsible for Submitting the Monitoring Reports | Organisation Receiving and Responsible for Reviewing Reports |
|----------------------------------------------------------------|--------------------------------------------------------------|
| Appointed SMC                                                  | Horsham District Council                                     |

| Project Year | Month Report to be Submitted | Month Management Plan to be reviewed | Comments                                                                                                                                                                                                                                                                                                                                      |
|--------------|------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y1           | October                      | November/<br>December                | Report on results of initial other neutral grassland, individual tree, woodland, hedgerow, scrub and pond creation measures.                                                                                                                                                                                                                  |
| Y2           | October                      | November/<br>December                | Report on management actions undertaken, alongside any remedial measures.<br><br>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.                                                                                                                                            |
| Y3           | October                      | November/<br>December                | Report on management actions undertaken, alongside any remedial measures.<br><br>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.                                                                                                                                            |
| Y4           | October                      | November/<br>December                | Report on management actions undertaken, alongside any remedial measures.<br><br>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.                                                                                                                                            |
| Y5           | October                      | November/<br>December                | Report on management actions undertaken, alongside any remedial measures.<br><br>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.<br><br>Critical review of HMMP and habitat establishment prior to subsequent monitoring. Identification of any remedial measures required. |
| Y10          | October                      | November/<br>December                | Report on management actions undertaken, alongside any remedial measures.<br><br>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.<br><br>Critical review of HMMP and habitat establishment prior to subsequent monitoring.                                                   |

|     |         |                       |                                                                                                                                                                                                                                                                                                                                                      |
|-----|---------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |         |                       | Identification of any remedial measures required.                                                                                                                                                                                                                                                                                                    |
| Y15 | October | November/<br>December | <p>Report on management actions undertaken, alongside any remedial measures.</p> <p>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.</p> <p>Critical review of HMMP and habitat establishment prior to subsequent monitoring. Identification of any remedial measures required.</p> |
| Y20 | October | November/<br>December | <p>Report on management actions undertaken, alongside any remedial measures.</p> <p>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.</p> <p>Critical review of HMMP and habitat establishment prior to subsequent monitoring. Identification of any remedial measures required.</p> |
| Y25 | October | November/<br>December | <p>Report on management actions undertaken, alongside any remedial measures.</p> <p>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.</p> <p>Critical review of HMMP and habitat establishment prior to subsequent monitoring. Identification of any remedial measures required.</p> |
| Y30 | October | November/<br>December | <p>Report on management actions undertaken, alongside any remedial measures.</p> <p>Results of other neutral grassland, individual tree, woodland, hedgerow, scrub and pond establishment documented.</p> <p>Critical review of HMMP and habitat establishment prior to subsequent monitoring. Identification of any remedial measures required.</p> |

## 9 SPECIES ENHANCEMENTS

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### 9.1 Bat Boxes

#### Integrated Bat Boxes

12 integrated bat boxes should be installed across the proposed residential dwellings. Suitable boxes include the Habitat 001 integrated bat boxes or a suitable equivalent. Boxes are best installed at eaves height avoiding close proximity to window openings. Installing boxes on a variety of building elevations will provide a range of environmental conditions for bats to roost in post-development.

### 9.2 Bird Boxes

In order to minimise the impacts of the development on local populations of breeding birds, the following measures would be proposed:

- ❖ 10 open fronted and hole nest boxes to be erected within areas of retained trees and trees within the wider locale to the site boundary prior to construction works commencing suitable for a range of species recorded within the survey.
- ❖ 12 swift bricks and sparrow terraces to be installed within the new residential dwellings. Whilst designed specifically for swifts these boxes are often readily used by other species as well.
- ❖ Areas of grassland to be created and enhanced where possible to increase nesting opportunities and invertebrate numbers and foraging for a range of bird species.
- ❖ Areas of longer grassland will be created, where possible, to provide a foraging habitat for barn owl and other predators.
- ❖ High intensity lighting will be avoided wherever possible and light spillage into adjacent mitigation areas will be minimised.

### 9.3 Example Compensatory and Enhancement Features

#### Habibat Tree/Wall Mounted Nest Boxes



#### Habibat Integrated Swift Bricks



#### 001 Integrated Bat Box



#### Habibat Wall/Tree Mounted Bat Boxes

##### 017 External Access Box



##### Triple Chambered Access Box



