



KEYSOURCE, TELEDATA MAN2

BIODIVERSITY ENHANCEMENT SPECIFICATION

170188-BMD-XX-XX-RP-L-00002

DATE: FEBRUARY 2024

BMD.24.0022

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Project: Keysource, Teledata MAN2
Date: 22.02.2024
BMD Ref: 24.0022
Document Ref: 170188-BMD-XX-XX-RP-L-00002

INTRODUCTION

This document has been produced to support the submission of the landscape design proposals and management plan for Teledata MAN2, to Discharge Conditions 11 – Biodiversity Enhancement and Condition 13 – Landscaping Details. The information set out within this document provides the proposed specification of ecological enhancements, installation, monitoring and management. This should be read alongside the following details:

170188-BMD-XX-00-DR-L-00001 GA & PLANTING PLAN

170188-BMD-XX-XX-RP-L-00001 LMMP (LANDSCAPE MAINTENANCE AND MANAGEMENT PLAN)

SPECIFICATION

The landscape proposals will include the following biodiversity enhancements to promote the development for local wildlife. These, alongside the native and species-rich tree, shrub and grassland mixes proposed on site, should provide suitable foraging opportunities, shelter and habitat creation for nature.

The ecological enhancements specified for the development should be installed on completion of all construction works and implementation of all landscape measures.

Ecological Enhancement Specification	Image (taken from Schwegler website)
<p>Bird Boxes</p> <p>Supplier: Schwegler</p> <p>Product Reference: Bird Home 1MR</p> <p>Material: Schwegler Wood-concrete nest box</p> <p>Dimensions: W 19cm H 27cm D 23cm with 32mm entrance hole</p> <p>Installation and siting: Bird boxes to be secured to the building with a screw hook and universal wall plug. Boxes should be located on walls at eye-level or above. Generally, the roost is readily accepted at higher levels. Ensure the flight path to the entrance hole is kept clear to encourage use and locate the entrance so it is not exposed to strong sunlight or winds.</p> <p>Suggested bird species: Great, Blue, Marsh, Coal and Crested Tits, Redstarts, Nuthatches, Pied Flycatchers, Wrynecks, Tree and House Sparrows and possibly even Bats.</p>	

Insect Houses

Supplier: Schwegler

Product Reference: Hardwood Insect Block

Material: Hardwood west-european native beech

Dimensions: W 11.5cm H 24cm D 9cm

Installation and siting: Installation locations can vary but care should be taken to select a sunny site that is protected from wind and rain. Building walls are a good location, placed in differing heights even up to third or fourth floors. Care should be taken to avoid hanging the insect block in exposed locations. Under the building eaves is an ideal place. Insect blocks should be left outside during the winter months to avoid insects emerging from their winter shelter too early and not surviving. The insect block is supplied with a galvanised metal hanger which can be hung from a wall mounted hook.

Suggested insect species: Solitary insects (Hymenoptera) such as Wild Bees, Sand Wasps and Common Wasps.



Bee Boxes

Supplier: Schwegler

Product Reference: Overground Bumble Bee Box

Material: Durable Schwegler wood-concrete with Olive green coating. Supplied complete with wool nesting material sufficient for one season. Annual replacements are available from Schwegler and include a cardboard entrance tube and wool nesting material.

Dimensions: W 38cm H 38cm D 54cm

Installation and siting: Located in a north facing orientation within the proposed native hedgerow. The bumble bee box is ideal for observing the various stages in the development of Bumble Bees. The lid can be opened at any time without disturbing the nesting bees.

Suggested bee species: *Bombus pascuorum*, *Bombus hortorum*, *Bombus sylvarum*, *Bombus rudrararius*, *Bombus humilis*, *Bombus subterraneus*, *Bombus distinguendus*, *Bombus veteranus*, *Bombus terrestris*, *Bombus mesomelas*, *Bombus lapidarius*, *Bombus pratorum* and *Bombus hypnorum*.



MONITORING AND MANAGEMENT

To monitor the success of the biodiversity enhancement measures detailed in this report, post-construction monitoring will be undertaken for a period of 10 years post-development. Please see below for a proposed monitoring/management schedule.

Nest features are to be checked annually between November and February inclusive and any repairs or modifications undertaken. There are no legal issues associated with the installation of bird boxes. However, when the nest box is occupied, all wild birds, their nests and eggs, are protected by law. Under the terms of the Wildlife and Countryside Act 1981, it is illegal to intentionally take, damage or destroy the nest of any wild bird whilst it is in use or being built. If un-hatched eggs are found in the box, they can only legally be removed from October to January (inclusive) and the eggs must be destroyed as it is illegal to keep them.

Checks on the insect blocks and bumble bee boxes will be undertaken at each maintenance visit to ensure they are fit for purpose. See the BMD LMMP for landscape maintenance regimes and timing.

Ecological Enhancement	Indicator and assessment	Remedial	Timescale	Target
Breeding birds	Check occupancy of nest boxes for nesting species	Replace damaged or missing boxes. Relocate boxes if no nesting activity within 4 years.	Annually for 10 years (October to January inclusive)	To provide additional nesting opportunities for bird species on site so that at least half of installed nest boxes are in use.
Solitary insects	Check occupancy of blocks for nesting species	Monitor boxes to ensure they are fit for purpose and not degrading. Replace damaged or missing boxes. The blocks are maintenance-free and will not need cleaning, as this may cause damage to intact cells. The product is made of hardwood so cracks may appear but degraded blocks should be replaced.	Annually for 10 years	To provide additional nesting/shelter opportunities for solitary insect species so that at least half of installed insect blocks are in use.
Bumble bee species	Check occupancy of boxes for nesting species	Monitor boxes to ensure they are fit for purpose and not degrading. Replace damaged or missing boxes.	Annually for 10 years	To provide additional nesting/shelter opportunities for bumble bee species so that at least half of installed bee boxes are in use. Bumble Bees should colonise these boxes on their own but a queen bee can also be placed within the box.

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