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## Biodiversity Enhancement Plan

### PROPOSED NEW DWELLING

Meadow View Farm, Stowmarket Road, Earl Stonham,  
Suffolk

October 2023



**ADDRESS** | Mill House, Homersfield, Harleston, Suffolk IP20 0ET

**TELEPHONE** | 01986 788791

**EMAIL** | millhouseecology@gmail.com

**REPORT PRODUCED BY:**

MHE Consulting Ltd  
Mill House  
Homersfield  
Harleston  
IP20 0ET

01986 788791  
07766 771305  
millhouseecology@gmail.com

**CLIENT:**

Mr Hart  
Meadow View Farm  
Stowmarket Road  
Earl Stonham  
Suffolk  
IP14 5DZ

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## Contents Amendment Record

**REPORT NUMBER: MEADOWVIEWFARM/2023/BES/001**

This report has been issued and amended as follows:

Issue	Revision	Description	Date	Signed
1	0	Initial draft	09/10/2023	A. Gregory
1	1	Reviewed draft	10/10/2023	C. Whiting

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## **1 INTRODUCTION**

Planning permission (Ref. DC/21/05529) was granted to erect a detached dwelling (following the demolition of an existing agricultural building with residential prior approval under DC/21/03970) and change of use of land to residential at Meadow View Farm, Stowmarket Road, Earl Stonham, Suffolk IP14 5DZ.

Amongst the conditions associated with the granting of planning permission, Condition 4 states:

### *4. PRIOR OCCUPATION: BIODIVERSITY ENHANCEMENT STRATEGY*

*A Biodiversity Enhancement Strategy for Protected and Priority species shall be submitted to and approved in writing by the local planning authority, in line with the Ecology Report (MHE Consulting, October 2021).*

*The content of the Biodiversity Enhancement Strategy shall include the following:*

- a) Purpose and conservation objectives for the proposed enhancement measures;*
- b) detailed designs to achieve stated objectives;*
- c) locations of proposed enhancement measures by appropriate maps and plans;*
- d) details of initial aftercare and long-term maintenance (where relevant).*

*The works shall be implemented in accordance with the approved details prior to occupation and shall be retained in that manner thereafter.*

*Reason - To enhance Protected and Priority Species/habitats and allow the LPA to discharge its duties under the s40 of the NERC Act 2006 (Priority habitats & species).*

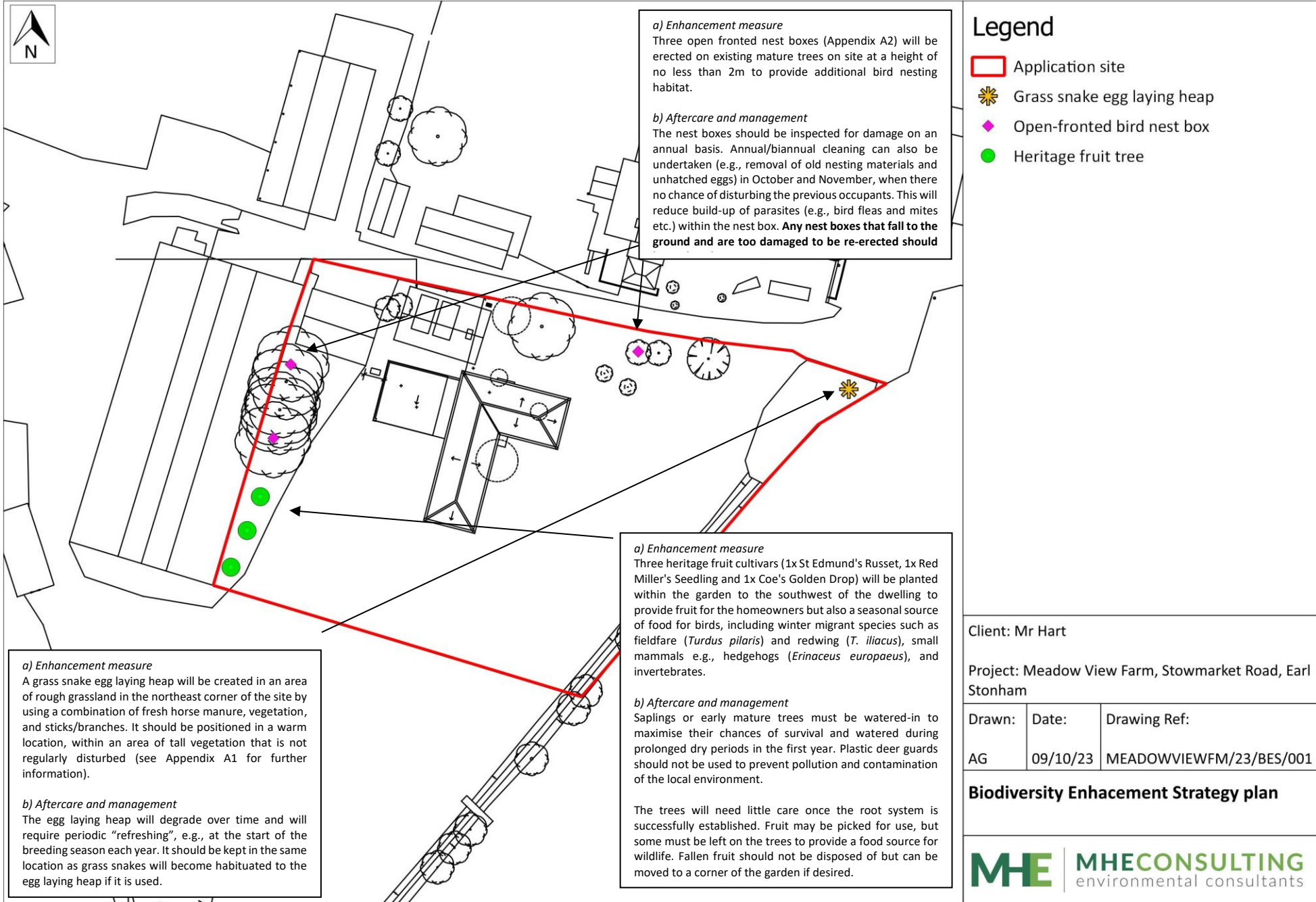
## **2 SCOPE**

This Biodiversity enhancement plan has been prepared to enable the discharge of Condition 4. It is based on the baseline ecological assessment for the scheme<sup>1</sup> and drawings by Roger Balmer Design architects.

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<sup>1</sup> MHE Consulting Ltd (2021) Ecology Report - PROPOSED NEW DWELLING - Meadow View Farm, Earl Stonham, Suffolk - October 2021

### 3 BIODIVERSITY ENHANCEMENT STRATEGY PLAN



## Appendices

**Appendix A1**

**Grass snake egg laying heap**

# Creating grass snake egg-laying heaps



RAVON



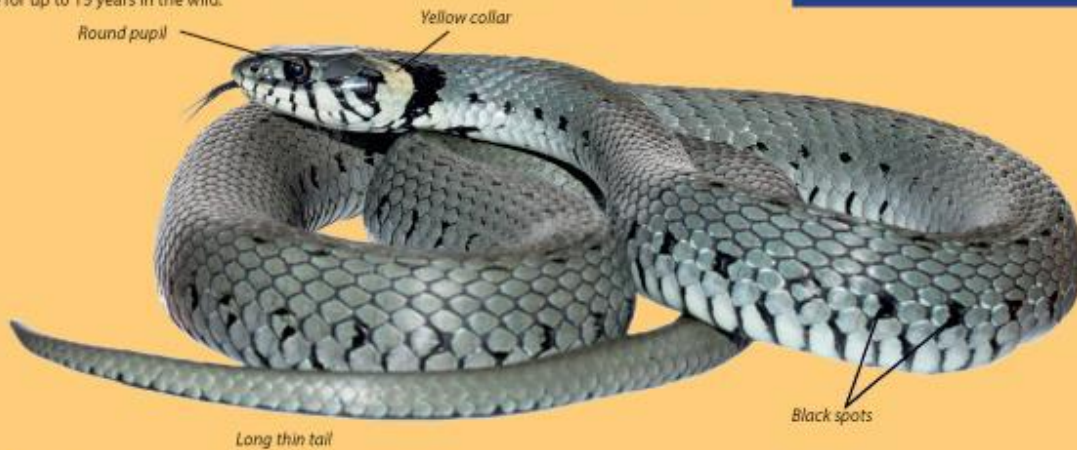
ARG UK



## Identification

The grass snake *Natrix helvetica* is the largest British native snake, and can grow to over 1 metre in length. Grass snakes range from grey to green or brown in colour. They have a distinctive yellow or cream collar, bordered to the rear by contrasting dark markings. There is a series of dark bars running along the flanks and some individuals have dark spots on the back as well. Often found near water, grass snakes can sometimes be spotted swimming, or hunting for favoured prey species, which are mainly amphibians. Grass snakes are non-venomous, but they can exude an unpleasant smelling musk if caught. They can live for up to 15 years in the wild.

## Introduction



## Life cycle

In common with other native reptiles, grass snakes hibernate over winter from October to March, emerging as the weather warms in early spring to replenish their energy reserves by feeding and basking. During April and May they find a mate, and in June or July females lay 10 to 40 leathery white eggs, often in warm compost, piles of leaves or manure heaps, which helps the eggs to incubate and hatch. Several females may use the same egg laying spot, so it may be possible to find large numbers of eggs in a suitable heap. After 6 to 10 weeks the pencil sized (14-22 cm long) young grass snakes emerge. Hatchlings cut their way out of the egg with an egg tooth, which they lose once they have emerged. It then takes three to four years for the young grass snakes to reach adulthood and sexual maturity.



Hatched grass snake eggs

Grass snake distribution  
in the British Isles  
(© NBN Atlas)

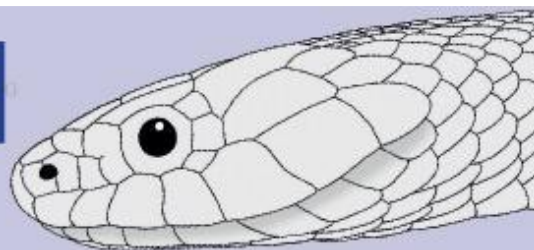


## Distribution and habitat

Grass snakes are widely distributed across much of England and Wales, though they are less commonly recorded in the North East of England, and Scotland. Generally, grass snakes prefer to live near water, where they can readily find their amphibian prey; but two other essential habitat features are egg-laying sites and places to hibernate. Natural grass snake egg-laying sites include heaps of organic material, or rotted tree stumps. Many grass snakes, however, take advantage of human activities and lay their eggs in manure or compost heaps. As a result, grass snakes are sometimes seen near riding stables and allotments during the spring and summer months. Over-wintering or hibernation occurs in dry, frost free and relatively undisturbed locations. Hibernation sites may be located in burrows or holes, heaps of rubble or wood, or dilapidated stone walls or buildings. In some areas, a vegetated earth bank or hedge bank, sea wall or even a road or rail embankment may be used.



## Why create egg-laying heaps?



### How you can help grass snakes

Grass snakes and humans have been intricately linked through livestock husbandry for many thousands of years across large parts of Europe. Historically, grass snakes have made use of manure heaps, and latterly compost heaps, as egg-laying sites, since these structures generate the heat that the snakes need to incubate and successfully hatch their eggs. In previous times this close association led to the grass snake being regarded as a house god in some parts of Europe, the symbol of spring, wisdom and protecting livestock.

However, in common with much of our native wildlife, we are seeing declines in grass snakes as agricultural and livestock husbandry practices change. One factor is thought to be availability of egg-laying sites, since there are fewer suitable heaps of manure accessible to grass snakes in the wider countryside. One means of boosting grass snake numbers may therefore be to create egg-laying heaps. These heaps also provide shelter and overwintering sites for slow-worms, amphibians, invertebrates and small mammals such as hedgehogs, mice and voles.



### How to create a grass snake egg-laying heap



- **Where:** In a sunny spot, adjacent to tall vegetation, away from busy roads and no more than 400m from a water body. Female grass snakes become habituated to using a successful heap for several years, so when refreshing a heap, ensure you always use the same location.
- **When:** Mid-March to late April
- **Materials:**
  - One third fresh horse manure
  - One third vegetation (leaves, clippings) or compost
  - One third large sticks or branches
- **Instructions:**
  - Clear the ground where you want the heap
  - Create a base layer of leaves and clippings
  - Lay the largest sticks/branches on top of this
  - Place half of the horse manure on top of the sticks and branches.
  - Add another layer of smaller sticks.
  - Mix the remaining manure with the vegetation/compost and add this to the heap. Add some branches and smaller sticks to keep these layers well ventilated.
  - Ensure that the egg-laying heap is not too compacted, so the animals can easily get into it, and to prevent it from overheating.

## **Appendix A2**

## **Bird nest boxes**



## Open Fronted Nest Box

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For birds such as robin and pied wagtail. Open fronted but with a generous canopy to screen from aerial predators. Place in good cover not in the open.

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