

**PARCEL R7 AND R13, SOUTH WOKINGHAM,
BERKSHIRE**

**GREAT CRESTED NEWT
2026 SURVEY REPORT**

Final Document (Rev. 1)

September 2026

Preliminary Ecological Appraisals • Protected Species Surveys and Licensing • NVC • EclA • HRA • Management Plans
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ECOSA Quality Assurance Record

This report has been produced in accordance with the Chartered Institute of Ecology and Environmental Management (CIEEM) Guidelines for Ecological Report Writing 2017 (CIEEM, 2017a). The Ecological Impact Assessment and report has been prepared in line with the CIEEM Guidelines for Ecological Impact Assessment in the UK and Ireland (CIEEM, 2018) and survey work has been undertaken in line with references within CIEEM's Source of Survey Guidance (CIEEM, 2017b).

Description:	Great Crested Newt 2026 Survey Report
Produced For:	Miller Homes
Issue:	Final (Revision 1)
Report Reference:	257102.0077.F1
Date of Issue:	7 th September 2026
Date of Survey Works:	Various dates between 18 th May and 30 th June 2026
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EXECUTIVE SUMMARY

Ecological Survey and Assessment Ltd (ECOSA) have been appointed by Miller Homes to undertake great crested newt *Triturus cristatus* surveys as part of ongoing redevelopment works at Parcel R7/R13, South Wokingham, Berkshire.

The findings of the great crested newt survey are:

- Great crested newt were not detected by eDNA in any of the tested ponds and are therefore considered likely absent from these ponds,
- A moderate population of great crested newt was recorded in Pond 13,
- While there are no significant barriers for dispersal between Pond 13 and the Phase 2B South Wokingham development, there are significant barriers present between Pond 13 and Parcel R7/R13, including ongoing building works, new roads with high curbs and new development.

1.0 INTRODUCTION

1.1 Background

Ecological Survey & Assessment Limited (ECOSA) have been appointed by Miller Homes to undertake great crested newt surveys as part of an Ecological Impact Assessment to support a planning application for the redevelopment of Parcel R7R/13, South Wokingham, Berkshire (hereafter referred to as the site). Survey works were carried out in relation to the wider Phase 2B South Wokingham development site (hereafter referred to as the wider site).

Great crested newt eDNA surveys were carried out in 2022 which returned a positive result for Pond 12 and Pond 13 (ECOSA, 2026). All other ponds tested in 2022 returned negative results. Due to the time elapsed since these surveys, populations surveys and eDNA survey were carried out in 2026 to reassess the great crested population in the area around South Wokingham.

This document should be read in conjunction with the Ecological Mitigation Strategy (ECOSA, 2026)

2.0 METHODS

2.1 Introduction

This section details the methods employed during the great crested newt surveys. Any significant limitations to the assessment are also considered.

2.1.1 Survey Methods

Habitat Suitability Index (HSI) Assessment

Those ponds and waterbodies located within a 500-metre radius of the wider site, where access permitted, were subject to a Habitat Suitability Index (HSI) assessment (Oldham, et al., 2000). HSI is a numerical index between 0 and 1, derived from an assessment of ten habitat variables known to influence the presence of great crested newt such as geographical location, water body size and permanence, presence of predatory fish and wildfowl, availability of suitable terrestrial habitat and proximity to other ponds. Each factor is scored based on its level of suitability for great crested newt. An HSI of 1 is optimal habitat (high probability of occurrence), while an HSI of 0 is very poor habitat (minimal probability of occurrence). The HSI is calculated on a single-pond basis but takes into account surrounding terrestrial habitat and local pond density. If a pond has a very low HSI score (<0.5) there would typically be a minimal chance of great crested newt presence.

This score can then be used, with caution, to indicate whether further detailed investigations are necessary or whether a particular waterbody can be 'scoped out' as

unsuitable for great crested newt. However, professional judgement should be used rather than simply relying on the HSI to eliminate ponds from further assessment. Further detailed investigations would involve targeted surveys carried out between mid-March and mid-June to determine presence/absence of great crested newt and if present then an assessment of population status.

Environmental DNA (eDNA) Survey

The great crested newt environmental DNA (eDNA) sampling was undertaken following current best practice guidelines (Biggs, et al., 2014).

Given the presence of a number of waterbodies within 500 metres of the wider site boundary an eDNA analysis was undertaken to establish the presence / likely absence of great crested newt from within the ponds which were accessible.

The field sampling entailed the collection of 20 samples of 30 millilitres of water from pre-selected sub-sampling sites around the margin of each waterbody. Sub-sampling sites are chosen to include areas where great crested newt are likely to be present such as areas of vegetation where they may be egg laying and areas of open water where they may be displaying. The 20 samples are then mixed into a single sterile bag from which six samples of water of 15ml are taken, each of which is preserved in 35ml of ethanol. The samples are then refrigerated until analysis at the lab. The samples were analysed in line with current guidance (Biggs, et al., 2014). The samples were taken within the required season (mid-April to June) when great crested newt eDNA is likely to be present within the pond and therefore, the analysis result indicates the presence or likely absence of the species from a given waterbody.

Population Size Class Assessment Surveys

The great crested newt survey was undertaken in line with current best practice guidelines (English Nature, 2001).

In accordance with the guidelines, six survey visits were undertaken in order to undertake a population size class assessment. The survey methods employed were torch searches, egg searches, and sweep netting.

The torch searches consisted of an investigation of the ponds after dark using a one million candlepower torch to search for adult great crested newt. All amphibians encountered were counted and sexed, where possible.

The egg search consisted of a methodical inspection of all suitable marginal vegetation for folded leaves that may indicate great crested newt egg laying activity. If great crested newt eggs were encountered during the survey this methodology was abandoned since exposure of eggs increases their risk of predation. This survey

technique is only used to confirm presence and therefore, once presence has been confirmed other methods are utilised in order to determine population size class.

The sweep netting survey consisted of an investigation of each waterbody using a long-handled net. All newts encountered were counted and sexed, where possible. This survey technique is only used to confirm presence and therefore, once presence has been confirmed other methods are utilised in order to determine population size class.

It was confirmed in 2022 that great crested newt were present in Pond 13, so population assessment surveys were carried out during 2026 (ECOSA, 2026).

2.1.2 Survey Details

Habitat Suitability Index (HSI) Assessment

The great crested newt HSI assessment was carried out by Katie Watts, Assistant Field Surveyor of ECOSA (Natural England Great Crested Newt Licence No. 2025-81898-SCI-CL08) on 2nd June and Joseph Hunt, Field Ecologist of ECOSA (Natural England Great Crested Newt Licence No. 2025-82923-SCI-CL08) on the 4th June 2026.

Environmental DNA (eDNA) Survey

The eDNA sampling was carried out by Katie Watts, Assistant Field Surveyor of ECOSA (Natural England Great Crested Newt Licence No. 2025-81898-SCI-CL08) on 2nd June and Joseph Hunt, Field Ecologist of ECOSA (Natural England Great Crested Newt Licence No. 2025-82923-SCI-CL08) on the 4th June 2026.

Presence/Absence and Population Size Class Assessment Surveys

A total of six survey visits were undertaken between May and June 2026. **Table 1** provides details of each great crested newt survey.

Table 1: Great crested newt presence/absence and/or population size class assessment survey details

Survey Date	Survey Techniques	Waterbodies Surveyed	Air Temperature (°C)	Weather Conditions
18 th May 2026	Torching, egg search, netting	Pond 13	11	Dry and overcast with 100% cloud cover and a light breeze.
28 th May 2026	Torching, egg search, netting	Pond 13	22	dry with 15% cloud cover and no breeze.
29 th May 2026	Torching, egg search, netting	Pond 13	20	Dry with no cloud cover and no breeze.

Survey Date	Survey Techniques	Waterbodies Surveyed	Air Temperature (°C)	Weather Conditions
2 nd June 2026	Torching, egg search, netting	Pond 13	14	Dry with 20% cloud cover and no breeze.
4 th June 2026	Torching, egg search, netting	Pond 13	13	Dry with 5% cloud cover and a light breeze.
9 th June 2026	Torching, egg search, netting	Pond 13	13	Dry with no cloud cover and no breeze.

The great crested newt survey was led Hugh Turner, Principal Ecologist of ECOSA (Natural England Great Crested Newt Licence No. 2025-83070-SCI-CL08) and Joseph Hunt, Field Ecologist of ECOSA (Natural England Great Crested Newt Licence No. 2025-82923-SCI-CL08) and assisted by suitably qualified and experienced ECOSA surveyors.

2.1.3 Survey Limitations

It was not possible for several ponds to be surveyed. The details of each ponds limitations are in **Table 2**.

Table 2: Limitations to Surveys by Pond

Pond No.	National Grid Reference	Location in Relation to Site Boundary	Limitation
5a	SU 8275 6745	Approximately 100 metres south of the wider site	Reported as unsuitable and unsafe by landowner in 2026.
5b	SU 8288 6747	Approximately 15 metres south of the wider site	Reported as unsuitable and unsafe by landowner in 2026.
6b	SU 8338 6774	Approximately 15 metres south of the wider site	Access denied in 2026.
10a	SU 8258 6697	Approximately 150 meters east of the wider site.	Pond was dry and unsuitable when visited in 2026.
10b	SU 8269 6700	Approximately 250 meters east of the wider site.	Pond was dry and unsuitable when visited in 2026.
12	SU 8204 6793	Approximately 35 metres north of the wider site	Access denied in 2026.

Pond No.	National Grid Reference	Location in Relation to Site Boundary	Limitation
17	SU 8289 6780	Located within the site boundary.	Pond was dry and unsuitable when visited in 2026.
21	SU 8259 6756	Located within the site boundary	Pond was dry and unsuitable when visited in 2026.

Pond 8, Pond 9, and Pond 15 are no longer within 500 metres of the wider site due to redline boundary changes and therefore were not surveyed. During the 2022 surveys Pond 4b, Pond 11b and Pond 14 were found to be filled in.

3.0 RESULTS

3.1 Introduction

This section details the results of the HSI and eDNA surveys carried out on the ponds in the surrounding area.

Great Crested Newt HSI Assessment Results

The HSI survey results determined that only Pond 4a could be assessed as “Excellent”, only Pond 1 could be assessed as “Good”, and only Pond 15 could be assessed as “Average” suitability for great crested newt. All other ponds within 500 meters of the site were assessed as either below average or poor. **Table 3** contains further details about each pond, including their accessibility to the surveyors.

Table 3: Ponds within 500m of the Site Boundary - Details

Pond No.	National Grid Reference	Location in Relation to Site Boundary	HSI Score	HSI Suitability	Waterbody Notes	Access Possible
1	SU 8251 6817	Approximately 150 meters north of the wider site	0.7	Good	Dragonfly larvae found, multiple male banded demoiselles found. Duck house present in the centre of the pond. Filamentous algae found particularly in the middle of pond.	Yes
2	SU 8357 6850	Adjacent to the wider site	0.58	Below Average	Extensive duckweed cover, bamboo and rhododendron on banks.	Yes
3a	SU 8244 6663	Approximately 430 metres south of the wider site.	0.39	Poor	Pond with litter and evidence of birds. Lots of mosquitoes.	Only 30% accessible due to steep banks with bramble.
3b	SU 8248 669	Approximately 85 meters south of the wider site	0.25	Poor	Large pond with reeds at edges. Moorhens seen. Thousands of toadlets present on the banks.	60% accessible – obstructed by reeds.
3c	SU 82652 6687	Approximately 225 meters south of the wider site	0.27	Poor	Large pond with large fish and birds. Fishermen observed at the pond.	Yes
4a	SU 8258 6717	Approximately 74 metres east of the wider site	0.83	Excellent	Large pond surrounded by grassy field.	Yes
6a	SU 8330 6767	Approximately 80 meters south of the wider site	0.51	Below Average.	Garden pond with algae and lily pads. Man-made stream at the top of the pond but dry at the time of survey.	Yes
7	SU 8347 6815	Approximately 175 metres east of the wider site	0.55	Below Average	Landowner mentioned severe levels of waste from neighbouring yard deposited into pond over a number of years. He believes this has	Yes

Pond No.	National Grid Reference	Location in Relation to Site Boundary	HSI Score	HSI Suitability	Waterbody Notes	Access Possible
					caused a reduction in fish stock density. Moorhen and tadpoles known to be present.	
11a	SU 8258 6733	Approximately 30 metres east of the wider site	0.46	Poor	Extensive duckweed cover.	Yes
15	SU 8102 6767	Adjacent to the west of the wider site	0.63	Average	Ditch line containing water to the east of pond. Trees surrounding entire pond. Flag iris and rushes present. Scrub and grassland west, south and east. Litter present in pond.	40% inaccessible. Scrub too thick/banks steep on one side.
16	SU 8185 6742	Approximately 10 metres south of the wider site	0.32	Poor	Pond surrounded by trees and scrub.	Yes
18	SU 8297 6792	Within the wider site boundary	0.47	Poor	Large drainage pond.	Yes
19	SU 8309 6793	Within the wider site boundary	0.48	Poor	Drainage pond, lots of reeds and aquatic vegetation present.	Yes
20a	SU 8287 6819	Approximately 75 meters north of the wider site	0.44	Poor	Large pond with reeds at edges.	Yes
20b	SU 8285 6827	Approximately 150 meters north of the wider site	0.32	Poor	Large pond with reeds at edges.	Yes

Great Crested Newt eDNA Survey Results

The results of the eDNA sampling returned negative results for all ponds tested within 500 meters of the wider site. It is therefore considered that great crested newt are likely absent from any of these ponds. **Table 4** shows details of each pond tested and its result.

Table 4: eDNA Results

Pond Number	eDNA Result
1	Negative
2	Negative
3a	Negative
3b	Negative
3c	Negative
4a	Negative
6a	Negative
7	Negative
11a	Negative
15	Negative
16	Negative
18	Negative
19	Negative
20a	Negative
20b	Negative

Great Crested Newt Presence/Absence and Population Size Class Assessment/ Survey Results

Table 5 presents the results of the great crested newt. At least two species of newt were present in the pond, including great crested newt and smooth newt. A peak count of 20 great crested newt were recorded within the pond. Peak counts of smooth newt *Lissotriton vulgaris* and common newt were 17 and 20 adult individuals respectively. In addition a number of juvenile great crested newt in their larval and eft stages were recorded within pond 13.

Table 5: Summary of Great Crested Newt Survey Results at Pond 13

Date	Number of Individuals Recorded				Other Amphibians
	Great Crested Newt	Smooth Newt	Palmate Newt	Common Newt ¹	
18 th May 2026	13	6	0	8	0
28 th May 2026	20	2	0	18	0
29 th May 2026	18	0	0	20	0
2 nd June 2026	10	17	0	0	0
4 th June 2026	7	5	0	0	0
9 th June 2026	9	0	0	0	0
Peak Count	20	17	0	20	0

4.0 EVALUATION

Population Class Size Assessment

It is difficult to establish the true size of a population of great crested newt, due to variations in sampling efficiency and the complex population dynamics involved. Hence, population estimation methods can only give an indication of whether the population is small, medium or large in terms of the number of newts present in the breeding pond.

In accordance with Natural England guidance (English Nature, 2001) survey results should be expressed as peak adult counts per pond per night gained through field survey methods, and a total site count, if appropriate.

Populations can then be classed as:

- 'small' for maximum counts up to 10;
- 'medium' for maximum counts between 11 and 100; or
- 'large' for maximum counts over 100.

¹ A "Common Newt" is an unidentified smooth or palmate newt identified by torch light but where it was not possible to distinguish between the two species

Evaluation

Pond 13 was subject to population assessment surveys. At least two species of newt were recorded in the pond; great crested newt and smooth newt. Additionally, high numbers of common newt were also observed. The peak count of great crested newt was 20, which indicates that Pond 13 supports a medium population of great crested newt. It was not possible to access Pond 12 in 2026; however it is considered likely that great crested newt are still present due to the continued presence of the species in neighbouring Pond 13. Due to the moderate population size supported by Pond 13 it is assessed that the pond is of local importance to great crested newt.

The results of the eDNA surveys indicate the likely absence of great crested newt within the other tested ponds within 500 meters of the site. While there are no significant barriers to dispersal for great crested newt between Pond 13, Pond 12, and the wider site, there are significant barriers between Parcel R7/R13 and the Ponds 13 and 12, which lie approximately 270 metres to the north-west of the site. These barriers include ongoing building work, the new link road with high curbs which lies between the site and the ponds and the existing Easthamstead Road lying between the site and ponds with high curbs and residential development surrounding ponds 13 and 12. Therefore it is considered unlikely that great crested newt would occur on site or would've have been present on site, prior to works commencing for the SWDR.

Recommendations for mitigation for great crested newt at Parcel R7/R13 are included within the Ecological Mitigation Strategy (ECOSA, 2026).

5.0 REFERENCES

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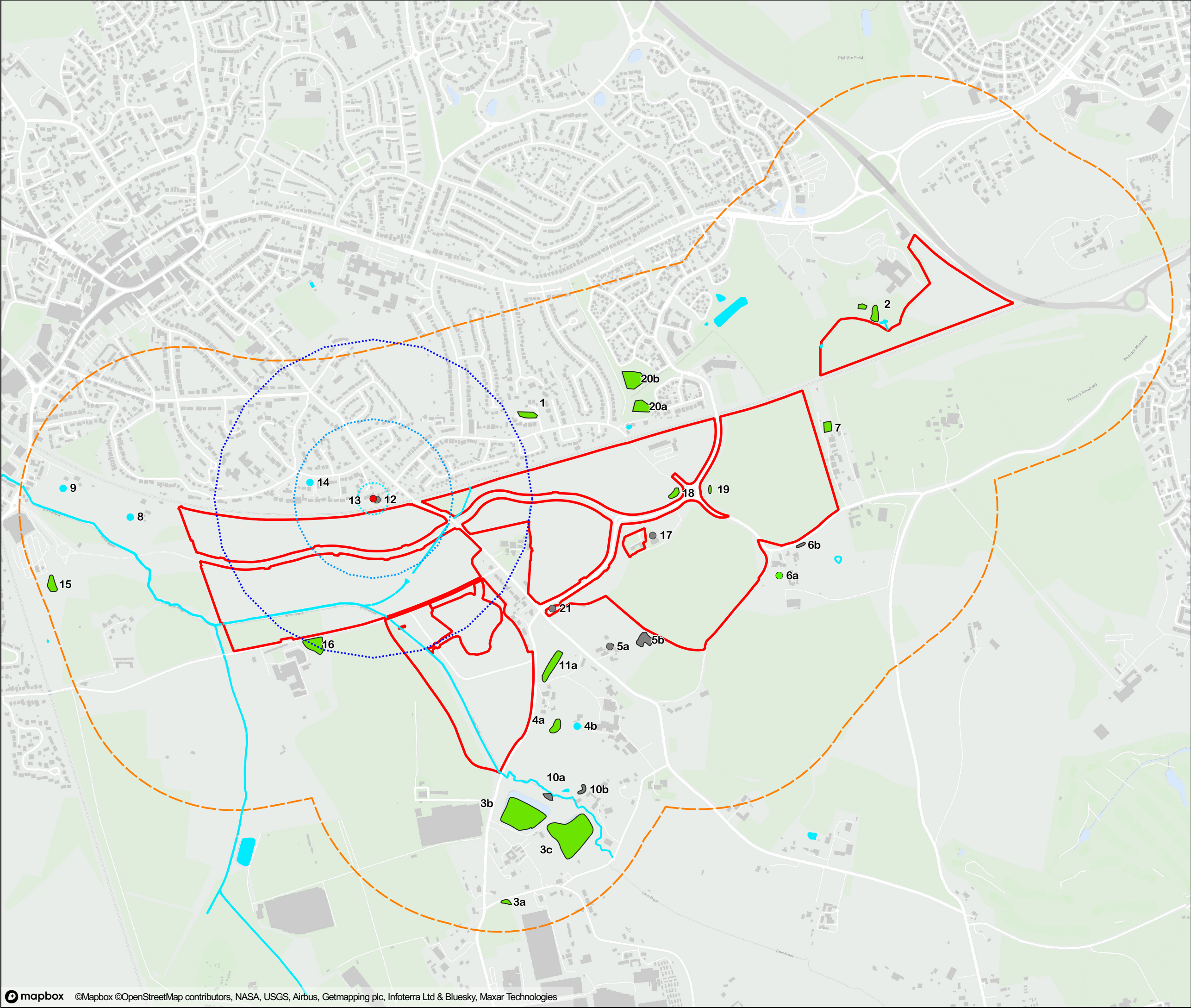
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Map 1 2026 GCN Survey Results



**SOUTH WOKINGHAM,
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REPORT**

Map 1 - Great Crested Newt Survey Results

Client:	Miller Homes Strategic Land
Date:	July 2026
Status:	Draft

KEY

- Site Boundary
- Site Buffer (500m)
- GCN Positive Pond Buffer (50m)
- GCN Positive Pond Buffer (250m)
- GCN Positive Pond Buffer (500m)
- Great Crested Newt Survey Results, 2026**
- Positive eDNA result
- Negative eDNA result
- Inaccessible / dry pond (not tested)
- Other waterbodies (not surveyed in 2026)

* Indicative point markers have been used to show the locations of the smallest ponds surveyed. Points (circles) do not represent a pond's true shape or size.

Scale at A3 1:11,000
0 100 200 300 400 m



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