







Appendix A.     Trees with bat roost potential



Table 11: Bat Roost Potential Target Notes from 2024 Survey

Trees	Image
T1 – a split willow tree with PRF-M bat roost potential.	
T2 – two ash trees with PRF-I bat roost potential.	

Trees	Image
<p><b>T3</b> - an ash tree with some holes, PRF-I bat roost potential.</p>	
<p><b>T4</b> – an ash tree with several holes, PRF-M bat roost potential.</p>	




Trees	Image
<p><b>T5</b> – there were multiple holes in this tree, PRF-M bat roost potential.</p>	
<p><b>T6</b> – some ivy cover, PRF-I roost potential.</p>	

Trees	Image
<p><b>T7</b> – an ash tree with ivy cover, PRF-I roost potential.</p>	
<p><b>T8</b> – an ash tree with some holes, PRF-I roost potential.</p>	

Trees	Image
<p><b>T9</b> – an ash tree with some holes, PRF-I roost potential.</p>	
<p><b>T10</b> – an ash tree with some holes, PRF-I bat roost potential.</p>	



Trees	Image
T11 – two sycamore trees with ivy cover, PRF-I bat roost potential.	

## Appendix B. Birds recorded within 2 km of the Site from 2023

Table 12: Birds recorded within 2 km of the Solar Site

Common name	Scientific name
<i>Accipiter nisus</i>	Sparrowhawk
<i>Alauda arvensis</i>	Eurasian skylark
<i>Anas platyrhynchos</i>	Mallard
<i>Ardea cinerea</i>	Grey heron
<i>Circus cyaneus</i>	Hen harrier
<i>Cygnus olor</i>	Mute swan
<i>Falco tinnunculus</i>	Kestrel
<i>Fulica atra</i>	Eurasian coot
<i>Gallinula chloropus</i>	Moorhen
<i>Mareca strepera</i>	Gadwall
<i>Motacilla flava</i>	Western yellow wagtail
<i>Numenius arquata</i>	Curlew
<i>Poecile montanus</i>	Willow tit
<i>Pyrrhula pyrrhula</i>	Eurasian bullfinch
<i>Tyto alba</i>	Western barn owl
<i>Upupa epops</i>	Eurasian hoopoe
<i>Vanellus vanellus</i>	Lapwing

## Appendix C. Complete Breeding Bird Species List from 2023 Surveys

**Table 13: 2023 breeding bird survey results.**



Species	Scientific Name	Conservation Status*	Possible	Probable	Confirmed	Total
Blackbird	<i>Turdus merula</i>	Green	16	4	1	21
Blackcap	<i>Sylvia atricapilla</i>	Green	7	3		10
Blue tit	<i>Cyanistes caeruleus</i>	Green	5	1		6
Buzzard	<i>Buteo buteo</i>	Green	2			2
Carrion crow	<i>Corvus corone</i>	Green				
Chiffchaff	<i>Phylloscopus collybita</i>	Green	5			5
Collared dove	<i>Streptopelia decaocto</i>	Green			1	1
Canada goose	<i>Branta canadensis</i>	Green				
Chaffinch	<i>Fringilla coelebs</i>	Green	7	3		10
Coal tit	<i>Periparus ater</i>	Green				
Grey wagtail	<i>Motacilla cinerea</i>	Amber	1			1
Goldfinch	<i>Carduelis carduelis</i>	Green	4	3		7
Greenfinch	<i>Chloris chloris</i>	Red				
Great spotted woodpecker	<i>Dendrocopos major</i>	Green			1	1
Great tit	<i>Parus major</i>	Green	11	2		13
House martin	<i>Delichon urbicum</i>	Red			1	1
House sparrow	<i>Passer domesticus</i>	Red	16		4	20
Jackdaw	<i>Corvus monedula</i>	Green				
Kestrel	<i>Falco tinnunculus</i>	Amber				
Red kite**	<i>Milvus milvus</i>	Green				
Lapwing	<i>Vanellus vanellus</i>	Red				
Little grebe	<i>Tachybaptus ruficollis</i>	Green				
Linnet	<i>Linaria cannabina</i>	Red	2	1		3
Long-tailed tit	<i>Aegithalos caudatus</i>	Green				
Mistle thrush	<i>Turdus viscivorus</i>	Red			1	1
Mallard	<i>Anas platyrhynchos</i>	Amber	1			1
Magpie	<i>Pica pica</i>	Green	1			1
Grey partridge	<i>Perdix perdix</i>	Red	1			1
Pheasant	<i>Phasianus colchicus</i>	Green	1			1
Robin	<i>Erithacus rubecula</i>	Green	15	7		22
Reed bunting	<i>Emberiza schoeniclus</i>	Amber	2			2
Rook	<i>Corvus frugilegus</i>	Amber			1	1
Skylark	<i>Alauda arvensis</i>	Red	33	34	1	68
Starling	<i>Sturnus vulgaris</i>	Red	2			2
Swift	<i>Apus apus</i>	Red			1	11
Swallow	<i>Hirundo rustica</i>	Green	2			3
Song thrush	<i>Turdus philomelos</i>	Amber	1			1
Whitethroat	<i>Curruca communis</i>	Amber	15	2		17
Woodpigeon	<i>Columba palumbus</i>	Amber	14			14
Wren	<i>Troglodytes troglodytes</i>	Amber	20	3		23
Yellowhammer	<i>Emberiza citrinella</i>	Red	10	15	2	27
Yellow wagtail	<i>Motacilla flava</i>	Red				

\*Classified under the Birds of Conservation Concern (BoCC 5) \*\*Schedule 1 Species under the Wildlife and countryside Act 1981





## Appendix D. Pond Description Table



**Table 14: Pond Description Table**

Pond ID	Description	HSI Score	eDNA Results	Photo
Pond 1	Pond located within the grounds of a garden centre. Gradual sloping banks with bank height around 1m tall. Bank vegetation included plantain, dandelion, creeping buttercup. Modified grassland in surrounding area. Pond weed and lily pads in the pond. Large weeping willow overhanging part of the pond.	0.65 – Average	Negative	
Pond 2	Pond located within the grounds of a garden centre, adjacent to Pond 1. Gradual sloping banks with modified grassland surrounding. Nettle, creeping buttercup on banks as well as a large weeping willow tree. Pond weed, lily pads and common reeds within the pond.	0.62 – Average	Negative	

## Preliminary Ecological Assessment



Pond 3	Large pond with vegetated island in the middle. The pond is located within a country park with modified grassland surrounding. Banks were approximately 30cm high with some areas of the bank sloping, some vertical. Duckweed, common reeds, pond weed and moss present within the pond.	0.75 – Good	Negative	 <p>Pond 3</p>
Pond 4	Pond located within a nature reserve and has an island of willow trees in the middle. Long sward grassland in surrounding area with hard rush on the banks. Banks were gradual with common reeds in the pond. Waterfowl present included Canada geese, snipe, little egret and heron.	0.82 – Excellent	Negative	 <p>Pond 4</p>

## Preliminary Ecological Assessment


Pond 5	2 small ponds connected to a large pond within a nature reserve. . Long sward grassland in surrounding area with tussocks of hard rush. Banks were sloping and the pond contained pond weed and duck weed with willow growing on the banks. Geese, swans, lapwings and snipe present.	0.81 – Excellent	Negative	 Pond 5
Pond 6	Pond located within a nature reserve. Banks were sloping with hard rush and common reeds present. Willow trees surrounded the banks and was hanging over parts of the pond. Canada geese and moorhen present.	0.82 – Excellent	Negative	 Pond 6



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Pond 7	1 large pond with a smaller pond feeding into it. Pond located within the grounds of a farm, with modified grassland in the surrounding area, as well as mature willow and field maple. Lots of speedwell covering the smaller pond as well as common reed. Banks steep in some areas, gradual in others.	0.78 – Good	Negative	 Pond 7
Pond 8	Pond located within a nature reserve/country park. Banks were sloping with lots of vegetation surrounding including willow, bittercress, cuckooflower, nettle and bramble. Island of willow trees in the centre of the pond. Common reeds and pond sedge present within the pond. Canada geese and mallard observed.	0.84 – Excellent	Negative	 Pond 8

## Preliminary Ecological Assessment

Pond 9	Small pond located within a nature reserve. Banks were sloping with hard rush on the outer edge. Semi mature willow trees were present on the banks and within the pond. Long sward modified grassland in surrounding area with dock, vetch, creeping buttercup and cocks foot present. Geese, snipe and swans observed in the area.	0.68 – Average	Negative	
Ditch 1	Ditch that leads into Pond 5 within the nature reserve. Sloping banks with hawthorn and field maple. Duckweed and leaf mater on the surface of the water. Ditch was heavily shaded by overhanging trees and located close to a public footpath.	0.71 – Good	No eDNA – joins Pond 5 but habitat was different	

## Preliminary Ecological Assessment

### Appendix E. HSI Results Table

**Table 15: HSI Results for Ponds Surveyed**

HSI categories	Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Pond 6	Pond 7	Pond 8	Pond 9	Ditch 1
Geographic Location	1	1	1	1	1	1	1	1	1	1
Pond Count	0.7	0.7	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Shade Cover	1	1	1	1	1	1	1	1	1	0.4
Pond Area	0.2	0.2	0	0.9	0	0	1	0	0.9	0.9
Permanence	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.9
Water Quality	0.67	0.33	0.67	0.67	0.67	0.67	0.67	0.67	0.33	0.33
Waterfowl	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	1
Fish	1	1	0.67	0.67	0.67	0.67	0.67	0.67	1	0.67
Terrestrial Habitat	0.33	0.33	0.33	1	1	1	0.67	1	0.67	0.67
Macrophyte Cover	0.7	0.9	0.7	0.7	0.5	0.6	0.55	0.75	0.35	0.85
HSI Score	<b>0.65</b>	<b>0.62</b>	<b>0.75</b>	<b>0.82</b>	<b>0.81</b>	<b>0.82</b>	<b>0.78</b>	<b>0.84</b>	<b>0.68</b>	<b>0.71</b>
Pond Suitability	<b>Average</b>	<b>Average</b>	<b>Good</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Good</b>	<b>Excellent</b>	<b>Average</b>	<b>Good</b>



## Appendix F. Edna Results

Folio No: 624-2025  
Purchase Order: 1109  
Contact: Atmos Consulting Ltd  
Issue Date: 08.05.2025  
Received Date: 23.04.2025



# GCN eDNA Analysis

## Summary

When great crested newts (GCN), *Triturus cristatus*, inhabit a pond, they continuously release small amounts of their DNA into the environment. By collecting and analyzing water samples, we can detect these small traces of environmental DNA (eDNA) to confirm GCN habitation or establish GCN absence.

## Results

Lab ID	Site Name	OS Reference	Degradation Check	Inhibition Check	Result	Positive Replicates
R25 0133	Yardley Pond 7	SP 76850 42537	Pass	Pass	Negative	0/12
R25 0134	Yardley Pond 9	SP 78351 41122	Pass	Pass	Negative	0/12
R25 0135	Yardley Pond 5	SP 78728 41090	Pass	Pass	Negative	0/12
R25 0136	Yardley Pond 8	SP 78831 40985	Pass	Pass	Negative	0/12
R25 0137	Yardley Pond 4	SP 78799 41081	Pass	Pass	Negative	0/12
R25 0138	Yardley Pond 3	SP 79086 40933	Pass	Pass	Negative	0/12
R25 0139	Yardley Pond 6	SP 78785 41143	Pass	Pass	Negative	0/12
R25 0140	Yardley Pond 1	SP 76399 42320	Pass	Pass	Negative	0/12
R25 0141	Yardley Pond 2	SP 76398 42337	Pass	Pass	Negative	0/12

Matters affecting result: none

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