

BAT EMERGENCE SURVEY

Ref: 1226

The Golden Lion

EXECUTIVE SUMMARY

ECOassistance were commissioned to undertake two bat emergence surveys on a pub and two detached outbuildings at The Golden Lion, Luddesdown Road, Luddesdown DA13 0XE.

The survey findings will be used to inform whether there are constraints relating to bats which might affect an application for redevelopment of the site which includes demolition of the existing buildings.

Survey methodology, roost classification and recommendations for further actions are made in accordance with best practice guidance publications and accepted industry standards.

The main findings of the surveys were as follows:

1. Relatively low levels of bat activity was recorded;
2. Four species of bat were recorded; one of which are known to be light-averse when commuting;
and
3. No bats were observed emerging from the survey buildings.

It is concluded that:

- The works as proposed are unlikely to impact bats, their roost, or foraging and commuting habitats if impacts from additional artificial lighting are mitigated; and
- The installation of a multi purpose bat box will ensure the works result in net gain for local bats.

Client Name:	Vineyard Farms Ltd – Steve Chappell	
Date of Completion:	14/10/2024	
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DISCLAIMER

This report considers the instructions and requirements of the client and is not intended for and should not be relied upon by any third party.

In accordance with current good practice guidance, the results contained within this report can be relied on for decision-making purposes without the need to be updated for up to six-twelve months providing there is no significant change in land use or land management in that time.

Interpretations and recommendations contained in this report represent the author's professional opinions. They are based on currently accepted industry practices and personal experience. This is a working document and must be updated if development proposals change, or new information become available.

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INTRODUCTION

ECOassistance were commissioned by Vineyard Farms Ltd – Steve Chappell (hereafter referred to in this report as: the client) to undertake two bat emergence surveys (BES) at The Golden Lion, Luddesdown Road, Luddesdown DA13 0XE (hereafter referred to in this report as: the site). The bat emergence surveys were undertaken on the Golden Lion Pub building and two outbuildings/shelters located near to the southwestern site boundary.

The location of the survey buildings are shown in Figure 1 below and will hereafter be referred to as per the figure.

Figure 1: Location of the survey buildings



BES inform planning applications where proposed works have the potential to impact bats, their roosts and foraging and commuting habitats, all of which are protected by law under The Conservation of Habitats and Species Regulations 2017. Bats and their roosts are also protected under the 1981 Wildlife & Countryside Act (as amended). Further information on the relevant legislation protecting bats is provided in the appendix of this document.

A summary of the planning application for the site as provided by the client is reproduced below¹:

Proposed extension

¹ No formal description had been provided at the time of writing

The BES follow on from a Preliminary Ecological Appraisal (PEA)² during which B1 was deemed to have moderate bat roost potential (BRP) and B2 and B3 were deemed to have low BRP.

Buildings or structures with moderate BRP require a minimum of two BES to determine likely absence of roosting bats for planning purposes. Buildings or structures with low BRP require a minimum of one BES to determine likely absence of roosting bats for planning purposes. When bat roosts are identified further BES may be required to properly characterise the roost(s) for the purposes of applying for a mitigation licence from Natural England (NE) (should one be required). The Local Planning Authority (LPA) must be satisfied that a NE licence application will be successful in order to grant planning permission for a project where impacts to bats and/or their roosts is unavoidable.

OBJECTIVES

- Assess the presence or likely absence of bat roosts within the survey buildings;
- Assess how bats are using the areas on and around the site for foraging and commuting;
- Characterise roost size(s) and type(s) if present; and
- Recommend further courses of action as required to comply with National and International guidelines and legislation.

² Golden Lion pub, Luddesdown Rd, Luddesdown, Gravesend DA13 0XE. Preliminary Ecological Assessment & Initial Biodiversity Net Gain Assessment. RP-BM140824-01. JW Biodiversity management Ltd. 29/09/2024.

BES carried out by ECOassistance follow the most up-to-date published good practice guidance³ for survey effort and methodology.

The surveys were led by Edward Clark and Charlie Birch alongside assistant surveyors Chris Potts, Jack Clark, Matt Kelk and Susan Potts.

Edward has more than 14 years professional and voluntary experience surveying for bats and has extensive experience in site assessment including ground-based and aerial tree surveys and cave and bridge inspections. Edward is registered to use a Level 2 Class licence (2018-33670CLS-CLS) and has been named on site-specific bat mitigation licenses.

Charlie has five years professional experience surveying for bats and is a regular bat survey lead for surveys utilising Night Vision Aids (NVAs).

Assistant surveyors Chris Potts, Jack Clark, Matt Kelk and Susan Potts have been carrying out bat surveys for ECOassistance and other local ecological consultancies for a combined total of more than 21 years.

Two emergence surveys were undertaken on the evenings of 08/08/24 and 15/09/24 from 15 minutes before sunset until 90 minutes afterwards in favourable weather conditions.

In line with the recently published Bat Conservation Trust (BCT) Interim Guidance Note⁴, where required, extra surveyor/survey positions were created through the use of an unmanned (Canon) infra-red camera system with infra-red torches/illuminator rigs⁵.

Dusk emergence surveys are preferred to dawn re-entry surveys following the recommendation to 'transition away from the standard use of dawn surveys, particularly as a method for presence/absence surveys, in favour of dusk surveys supported by NVAs' as set out in the Interim Guidance Note.

Bat survey equipment including Batlogger M and M2 bat detectors and Canon XA11 and Canon XA20 infra-red video cameras with infra-red lighting rigs were used. Surveyors and camera rigs were positioned around the outside of the building ensuring as many aspects as possible were visible and that bats entering or exiting the structure would be readily observed. The surveyors and camera positions for the surveys are shown in the Figures below⁶.

³ Collins, J. (ed.) (2023) *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (4th edition). The Bat Conservation Trust, London

⁴ *Use of night vision aids for bat emergence surveys and further comment on dawn surveys* Bat Conservation Trust (May 2022)

⁵ *The guidance note supersedes the 4th edition Good Practice Guidelines* (Collins, 2023).

⁶ *Images produced courtesy of Bing Maps (Map data ©2024 Microsoft).*

Figure 2: Surveyor/camera positions and indicative field of view (white dotted lines) for survey one

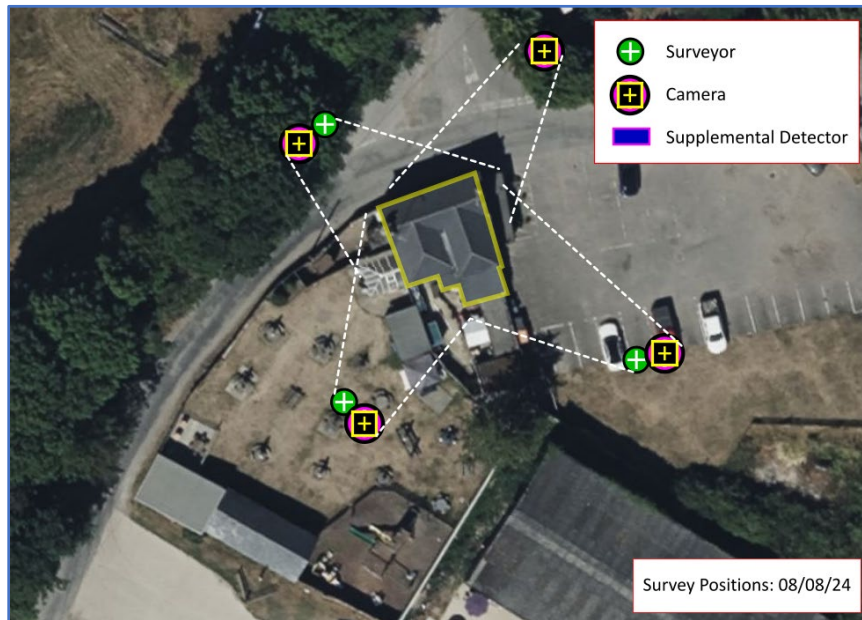
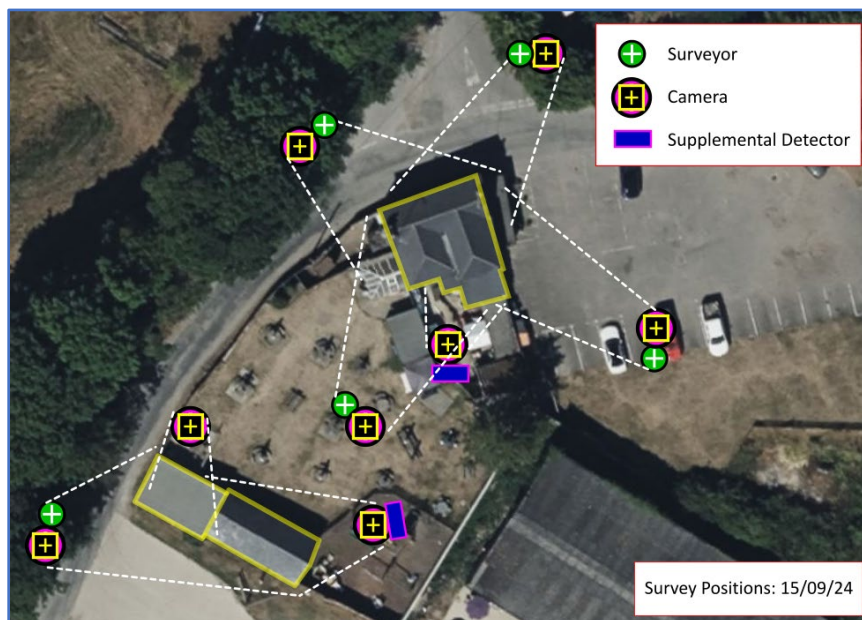


Figure 3: Surveyor/camera positions and indicative field of view (white dotted lines) for survey two



The use of survey results forms is discouraged during ECOassistance BES to ensure surveyors are distracted as little as possible from watching trees and structures for emerging bats. Notes on location, appearance, and foraging and commuting areas are recorded in the summary section of the survey results form at the end of the survey. The taking of 'voice notes' on the Batlogger M2 detectors is encouraged to record memorable bat activity as a partial replacement of the survey forms. Due to the use of NVA's surveyors are encouraged to record emergences or possible emergences only on the survey forms during the surveys to aid the video review process.

Bat calls are automatically recorded by the detectors to enable sound analysis where needed and post-operative sound analysis is carried out by Charlie Birch using BatExplorer software. A screenshot of the bat recordings taken from the BatExplorer programme is provided in addition to the survey forms in the appendix.

Video review is carried out by Charlie Birch and Jack Clark using VLC media player.

The UK Bat Mitigation Guidelines (CIEEM 2023) assessment criteria and BCT Good Practice Guidelines and professional judgement is used to assign a level of importance to any bat roosts identified and assess the importance of assemblages and commuting and foraging habitats in order to:

- predict the level of impact on bats;
- determine suitable and proportionate avoidance, mitigation and enhancement measures.

CONSTRAINTS AND LIMITATIONS

Long eared bats of the Plecotinae often do not echolocate, instead making use of their relatively good eyesight to navigate. As a result, long eared bats more than any other UK species are likely to be under recorded during activity or emergence and re-entry surveys. It should be noted however that long eared bats are distinctively larger and have different flight characteristics and habits which to a trained observer, set them apart from other species which might be found roosting in buildings or structures.

At the time of the first survey it was not yet known that the two outbuildings (B2 & B3) were likely to be impacted during works and so bat emergence surveys had not yet been commissioned on these structures. A BES was subsequently undertaken on B2 & B3 at the same time that the second survey was undertaken on B1. The single survey undertaken on B2 & B3 was undertaken in September which is still considered to be part of the main activity season for bats, but Good practice guidance states that where multiple BES are undertaken these should be started in the period Mid – May to August (inclusive) and a final survey can be undertaken up to mid-September. The single survey on B2 & B3 is therefore slightly outside of the good practice guidelines on survey timings but the activity recorded shows that bats were still active and on the wing at the time of the second survey and the activity levels had changed little from the first survey.

A sudden downpour during second survey led to the survey finishing 10 minutes early at approximately 20:30.

RESULTS

During the survey four species of bat were recorded flying over or near to the site. Species observed included common pipistrelle *Pipistrellus pipistrellus*, soprano pipistrelle *Pipistrellus pygmaeus*, Serotine *Eptesicus serotinus* and a noctule bat *Nyctalus noctula*

The earliest bat (a noctule bat) was recorded 13 minutes after sunset (at 19:28) on the evening of 15/09/24 (the second survey). Noctule bats roost in trees and forage high up when compared with other UK species. The bat was not observed by the surveyors and was not seen during review of the infrared (IR) video footage.

Activity levels were relatively low. The highest levels of activity were recorded to the northwest of the site where bats were observed using the road for foraging and commuting

No bats were seen emerging from the survey buildings by the site surveyors. Review of the infrared video footage confirms that no bats emerged from the survey buildings.

Indicative activity maps showing the bat activity recorded during the surveys are provided in the figures below.

Figure 4: Bat activity observed during survey one (08/08/24)



Figure 5: Bat activity observed during survey two (15/09/24)



CONCLUSIONS AND RECOMMENDATIONS

The activity levels recorded during the survey were relatively low. Three of the species that were recorded are considered to be either widespread in all geographies or widespread in many geographies, but not as abundant in all. The fourth species recorded, the serotine bat, is considered to be a rarer species of restricted distribution.

Any bats that were present were recorded in low numbers indicating that there is not a maternity colony within the site or in the immediate surrounding area and/or that the site habitats are not an important destination for high numbers of commuting or foraging bats.

The earliest recorded bats were all noctule bats. These were recorded by the site surveyors within the generally accepted timeframes that this species are known to emerge but the potential for these to have emerged from any of the survey buildings is negligible because they are a tree roosting species.

The two different pipistrelle species were first recorded on the site outside of the generally accepted emergence times for these species during both survey visits indicating that they are not likely to be roosting nearby and not in any of the survey buildings.

The serotine that was recorded was not observed by the surveyors or cameras which were focussing on the survey buildings and so this is likely to have flown along a dark corridor somewhere away from the well-lit pub frontage and pub garden due to the *Eptesicus* genera (to which the serotine belongs) being light averse when commuting.

No further survey effort or actions are required at this stage in relation to the programme of works as bats are deemed likely absent from all of the buildings surveyed within the site following two surveys where early emerging bats which roost in buildings were absent.

LIGHTING

There is potential for negative impact from additional artificial lighting due to the presence of light averse species (serotine) at the site.

It should be noted however that due to its ongoing use as a pub with a pub garden and car park artificial lighting at the site is prevalent. With light spill from a relatively high number of external artificial light sources in all directions including across the road and towards the roadside boundary vegetation.

Nevertheless, mitigation should be put in place to ensure that the amount of artificial light spill does not increase as a result of the development and it is recommended that the landowners gradually seek to reduce the existing light spill associated with the running of a pub by incorporating some of the recommendations below.

In order to mitigate impacts from additional artificial lighting associated with development the following steps must be taken:

All external lighting should be operated by motion sensor where possible. Lighting should not shine upwards or towards immediate surrounding boundary habitats;

Metal halide and fluorescent sources should not be used for additional lighting;

A warm white spectrum lamp (ideally 2700Kelvin) should be used. Cool blue lamps must be avoided;

Low level bollard lighting should be used to light access driveways, parking areas and footpaths;

Accessories such as baffles, hoods and louvres should be used on wall mounted artificial lamps to reduce light spill into the surrounding area.

In order to avoid any potential disturbance from artificial lighting during the construction phase works must not continue after dark.

ENHANCEMENTS

In order to ensure the works deliver a net gain for bats in line with National Planning Policy the following site enhancements are recommended:

One multi-purpose bat box suitable for common pipistrelle should be installed either onto or integrated into an elevation of the new building. Bat boxes should be of the woodcrete type to ensure longevity. Bat boxes should be installed in a sheltered location, in close proximity or with a strong unlit linear connection to good quality commuting or foraging habitat. For all types of boxes, Collins et al. (2020) found that the box height most frequently occupied was 4m (2020). For practical reasons a height of at least 3 metres is recommended.

REFERENCES

Collins, J. (ed.) (2023) Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edition). The Bat Conservation Trust, London.

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Bat Conservation Trust (2009) Bats and Lighting in the UK: Bats and the Built Environment Series Collins, J. (ed.) (2016).

- The level of protection afforded to protected species varies dependent on the associated legislation. A full list of protected species and their specific legal protection is provided within the Schedules and/or Sections of the associated legislation. Case law may further clarify the nature of the legal protection afforded to species.
- The legal protection afforded to protected species overrides all planning decisions. European Protected Species (EPS) - and the Conservation of Habitats and Species Regulations 2010 (as amended)
- European Protected Species (EPS) are afforded the highest level of protection through the Conservation of Habitats and Species Regulations 2017. EPS are also afforded legal protection by parts of the Wildlife and Countryside Act 1981 (as amended).
- In general, any person and/or activity that:
- Damages or destroys a breeding or resting place of an EPS. (This is sometimes referred to as the strict liability or absolute offence);
- Deliberately captures, injures or kills an EPS (including their eggs);
- Deliberately disturbs an EPS, and in particular disturbance likely to impair animals' ability to survive, breed or nurture young, their ability to hibernate and migrate and disturbance likely to have a significant effect on local distribution and abundance; intentionally or recklessly disturbs an EPS while occupying a structure or place used for shelter and/or protection (Wildlife and Countryside Act 1981)¹ (as amended); and
- Intentionally or recklessly obstructs access to any structure or place that an EPS uses for shelter or protection (Wildlife and Countryside Act 1981) (as amended). may be guilty of an offence.
- The legislation applies to the egg, larval and adult life stages of great crested newts and to bat roosts even when they are not occupied.
- Actions affecting multiple animals can be construed as separate offences and therefore penalties can be applied per animal impacted.
- Under certain circumstances licences can be granted by the Statutory Nature Conservation Organisation (Natural England in England) to permit actions that would otherwise be unlawful.
- There are some very specific defences associated with the Conservation of Habitats and Species Regulations 2017. However, these are unlikely to apply to construction related projects. The Sections of the Regulations provide further details of these defences.
- The Wildlife and Countryside Act (1981) includes defence for those aspects of the legislation that apply to an EPS. These defences are unlikely to apply to construction related projects and

do not apply to those acts included in the Conservation of Habitats and Species Regulations 2010 (as amended). The Schedules of the Act provide further details of defences.

- Local authorities have obligations under sections 40 and 41 of the Natural Environment and Rural Communities Act (NERC) 2006 to have regard to the purpose of conserving biodiversity in carrying out their duties. The majority of EPS are listed on Section 41 the NERC Act.
- The Natural Environment and Rural Communities Act 2006 (as amended)
- Section 41 (S41) of the Natural Environment and Rural Communities (NERC) Act (2006) requires the Secretary of State to publish a list of habitats and species which are of principal importance for the conservation of biodiversity in England. The S41 list is used to guide decision-makers, including local and regional authorities, in implementing their duty under Section 40 of the act to have regard to the conservation of biodiversity in England when carrying out their normal functions. S41 lists 56 habitats and 943 species of principal importance. Section 42 of the NERC Act relates to Wales.
- Wildlife and Countryside Act 1981 (as amended)
- The level of protection afforded to species listed on the Wildlife and Countryside Act 1981 (as amended) varies considerably. ‘Fully protected species’, such as water vole, are afforded the highest level of protection. Any person who intentionally kills, injures, or takes ‘fully protected species’, or who intentionally or recklessly damages or destroys a structure or place used for shelter and/or protection, disturbs the animal whilst occupying a structure and/or place used for shelter and protection, or obstructs access to any structure and/or place used for shelter or protection is likely to have committed an offence. Other species, such as common reptiles, are afforded less protection and for these species it may only be an offence to intentionally or recklessly kill or injure animals.
- All active bird nests, eggs and young are protected from intentional destruction. Schedule 1 listed birds are also protected from intentional and reckless disturbance whilst breeding.
- Schedule 9 of The Wildlife and Countryside Act lists plant species for which it is an offence for a person to plant, or otherwise cause to grow in the wild. Schedule 9 also lists animals for which it is an offence to release into the wild. The National Planning Policy Framework
- Planning policy requires new developments to take into consideration our local and national wildlife. With the objective to maintain or increase the viability of the site for wildlife. The existing proposals are considered to determine whether Habitat enhancements are offered and whether they are adequate to meet the policy requirements. Again, national, regional, county and borough policies are considered.
- The National Planning Policy Framework states that the planning system should contribute to and enhance the natural and local environment by minimizing impacts on biodiversity and delivering net gains in biodiversity where possible. Ecological habitat enhancements measures need to be over and above any mitigation measures.

BAT SURVEY FORM 2024		Surveyor name	CP
Site Name- visit no.	The Golden Lion 1	Date	08/08/2024
Start Time	20:18	Finish Time	22:03
Sunset Time	20:33	Detector number/colour	blue
Position Relative to Structure	south east corner	Weather Conditions pre sunset	wind3 cloud 100%
Air Temperature Start	19'c	Air Temperature End	19'c
Brief summary (fill out at end of survey)	some bat activity detected, but nothing seen in this position. Drizzle from about sunset until end of survey		
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislars Noctule = Leis; Serotine = se			
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.			
Time	Species*	Activity**	Notes including flight direction (if seen)
21:15	nyctaloid	ns	detected at 25.5kHz
			No emergences were seen at this time during video analysis
21:24	27kHz	ns	
			No emergences were seen at this time during video analysis

Play Delc	Recording	Recorded	Species	Sugg Spec	Length	#	Call	Qualit	Peak I	Max F	Min F	Call le	Distar	Call shape	Location
▶	05190000_1	08/08/2024 20:17:58	Select...	32	1	2.00	3	44.3	59.1	59.3	58.6	19.7	166	cf-e(3)	-
▶	05190000_2	08/08/2024 20:17:58	Select...	31	1	2.00	1	11.7	19.1	19.1	18.4	16.5	0	cf-e(1)	-
▶	05190000_3	08/08/2024 20:17:58	Select...	28	1	2.00	1	4.7	30.0	30.0	29.6	19.2	0	cf-e(1)	-
▶	05190000_4	08/08/2024 20:17:58	Select...	Nal	1	2.00	1	4.5	68.6	68.6	68.3	6.4	0	cf-e(1)	-
▶	05190001_1	08/08/2024 20:18:00	Select...	31	1	2.01	2	14.5	17.3	17.4	16.3	18.7	60	cf-e(2)	-
▶	05190001_2	08/08/2024 20:18:00	Select...	31	1	2.01	2	53.1	66.0	66.4	65.1	7.7	114	cf-e(2)	-
▶	05190002	08/08/2024 20:55:42	Select...	Nal	1	2.28	0	1.0	0.0	0.0	0.0	0.0	0		Luddesdown Road, Luddesdown, Gravesham, Kent, England, DA13
▶	05190003	08/08/2024 21:15:30	Select...	58	1	4.72	15	76.2	26.3	32.2	24.7	9.0	230	fm-d(5)	Luddesdown Road, Luddesdown, Gravesham, Kent, England, DA13
▶	05190004	08/08/2024 21:15:35	Select...	64	1	3.39	8	43.2	24.0	24.9	22.8	9.5	351	cf-e(6)	Luddesdown Road, Luddesdown, Gravesham, Kent, England, DA13
▶	05190005	08/08/2024 21:18:05	Select...	64	1	3.39	4	42.6	25.4	26.3	24.4	8.9	626	cf-e(4)	51.37451 / 0.40156
▶	05190006	08/08/2024 21:24:09	Select...	61	1	4.96	10	31.2	26.1	29.8	24.0	10.0	270	cf-n(8)	Luddesdown Road, Luddesdown, Gravesham, Kent, England, DA13
▶	05190007	08/08/2024 21:27:27	Select...	62	1	2.01	4	20.7	25.6	31.8	23.3	12.3	323	cf-n(3)	51.3745 / 0.40155
▶	05190008	08/08/2024 21:27:41	Select...	53	1	2.17	7	21.6	28.8	38.0	26.5	6.0	189	fm-d(6)	51.3745 / 0.40154
▶	05190009	08/08/2024 21:27:45	Select...	64	1	3.13	11	21.6	28.6	37.9	25.6	6.0	150	fm-d(8)	51.37451 / 0.40154
▶	05190010_1	08/08/2024 21:31:56	Select...	32	1	2.00	2	16.9	26.4	30.6	25.5	6.1	221	fm-d(1)	Luddesdown Road, Luddesdown, Gravesham, Kent, England, DA13
▶	05190010_2	08/08/2024 21:31:56	Select...	26	1	2.00	1	4.9	30.0	32.3	27.8	5.9	0	cf-e(1)	Luddesdown Road, Luddesdown, Gravesham, Kent, England, DA13
▶	05190011	08/08/2024 21:53:52	Select...	61	1	2.00	4	21.6	25.7	32.8	24.9	6.4	548	fm-d(2)	51.37455 / 0.40151
▶	05190012	08/08/2024 21:53:54	Select...	61	1	2.01	6	22.3	27.4	36.8	25.5	7.0	316	fm-d(6)	51.37455 / 0.40151
▶	05190013	08/08/2024 21:57:59	Select...	59	1	2.33	4	82.5	25.3	26.9	24.8	7.9	350	cf-n(2)	51.37453 / 0.40152
▶	05190014	08/08/2024 21:58:04	Select...	45	1	2.01	2	17.6	26.4	27.4	25.5	5.9	876	cf-n(2)	51.37453 / 0.40153
▶	05190015	08/08/2024 22:01:19	Select...	62	1	2.01	6	22.7	24.8	26.0	23.5	6.0	282	cf-e(4)	51.37453 / 0.40154

BAT SURVEY FORM 2024		Surveyor name	S.Potts
Site Name- visit no.	The Golden Lion 1	Date	08/08/2024
Start Time	20:18	Finish Time	22:03
Sunset Time	20:33	Detector number/colour	silver
Position Relative to Structure	back garden of building. South/West corner	Weather Conditions pre sunset	100% cloud. wind 3
Air Temperature Start	19°	Air Temperature End	19°
Brief summary (fill out at end of survey)	some nyctaloid activity throughout the survey. Significant outside lighting made viewing the roof once it became dark quite difficult. Slight intermittent drizzle from sunset onwards.		

*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislers Noctule = Leis; Serotine = se

**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.

Time	Species*	Activity**	Notes including flight direction (if seen)
21:12	noctule	ns	
			No emergences were seen at this time during video analysis
21:18	noctule	ns	
			No emergences were seen at this time during video analysis
21:37	p45	ns	
			No emergences were seen at this time during video analysis
21:47	noctule	ns	
			No emergences were seen at this time during video analysis

Play Del	Recording	Recorded	Species	Sugg. Species 1st	Sugg. Spec	Length	#	Call	Quality	Peak	F	Min	F	Call	le	Distar	Call shape	Location
▶	11520004_1	08/08/2024	Select...	Vespertilio murin	60	1	3.22	4	66.0	23.1	24.1	21.7	14.0	753			cf-e(3)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520004_2	08/08/2024	Select...	-	Nal	1	3.22	1	9.7	16.5	18.0	13.5	3.7	0			cf-e(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520008	08/08/2024	Select...	Nyctalus leisleri	64	1	13.2	15	99.0	24.3	25.3	23.5	6.0	520			cf-e(12)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520010_1	08/08/2024	Select...	Vespertilio murin	44	1	2.64	3	79.4	25.9	26.6	24.4	8.4	445			cf-e(3)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520010_2	08/08/2024	Select...	Nyctalus noctula	33	1	2.64	1	12.2	20.6	22.1	18.0	6.4	0			cf-n(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520012	08/08/2024	Select...	Vespertilio murin	68	1	2.97	7	26.1	24.2	27.7	23.1	12.0	280			cf-n(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520013	08/08/2024	Select...	Nyctalus leisleri	63	1	2.39	5	58.5	24.5	25.4	23.1	12.0	511			cf-e(4)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520016	08/08/2024	Select...	Vespertilio murin	60	1	3.07	5	26.1	26.5	27.8	25.1	6.5	414			cf-n(3)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520017	08/08/2024	Select...	-	Nal	1	2.22	0	1.0	0.0	0.0	0.0	0.0	0				Golden Lion, Luddesdown Road, Luddesdown
▶	11520019	08/08/2024	Select...	Vespertilio murin	69	1	3.02	6	26.3	24.3	26.6	22.9	10.0	426			cf-n(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520020	08/08/2024	Select...	Vespertilio murin	63	1	6.32	14	61.2	24.4	28.5	22.9	7.0	395			cf-n(14)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520021	08/08/2024	Select...	Vespertilio murin	61	1	4.82	8	97.5	24.8	30.8	23.5	10.0	311			cf-n(5)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520024	08/08/2024	Select...	Nyctalus noctula	58	1	6.57	9	99.0	26.7	32.8	26.2	5.9	223			cf-n(4)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520025_1	08/08/2024	○ Pipistrellus p	Pipistrellus pipist	85	1	4.72	19	55.4	46.5	51.9	45.4	6.0	105			fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520025_2	08/08/2024	Select...	Nyctalus noctula	26	1	4.72	1	9.1	19.1	24.0	17.3	4.3	0			fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520026	08/08/2024	○ Pipistrellus p	Pipistrellus pipist	69	1	3.76	11	39.9	45.2	50.6	44.4	7.0	303			cf-n(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520027_1	08/08/2024	Select...	Vespertilio murin	60	1	3.23	4	45.0	25.2	27.9	24.1	6.5	502			cf-n(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520027_2	08/08/2024	Select...	-	Nal	1	3.23	1	8.2	20.3	27.8	12.0	1.6	0			fm-l(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520029	08/08/2024	Select...	Nyctalus leisleri	62	1	7.59	15	53.2	25.5	31.9	24.3	6.0	300			fm-d(8)	Golden Lion, Luddesdown Road, Luddesdown
▶	11520031	08/08/2024	Select...	Vespertilio murin	60	1	3.89	7	66.8	25.2	27.7	22.8	8.0	442			cf-n(3)	51.3744 / 0.40123
▶	11520036	08/08/2024	Select...	Nyctalus leisleri	61	1	3.51	4	45.4	25.8	26.6	23.7	6.0	661			cf-e(3)	51.37442 / 0.40124
▶	11520037	08/08/2024	Select...	Vespertilio murin	48	1	3.40	3	85.8	23.9	25.3	23.3	10.7	269			cf-e(3)	Golden Lion, Luddesdown Road, Luddesdown

BAT SURVEY FORM 2024

Surveyor name

EC

Site Name- visit no.	The Golden Lion 1	Date	08/08/2024
Start Time	20:18	Finish Time	22:03
Sunset Time	20:33	Detector number/colour	m
Position Relative to Structure	nw	Weather Conditions pre sunset	moderate wind, cloud 100%
Air Temperature Start	19	Air Temperature End	19
Brief summary (fill out at end of survey)	low levels of activity. approx 3 x c.c.pips hns. f noctules heard. maybe 1 x ser. no bats observed due to floodlights. intermittent light drizzle		
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislers Noctule = Leis; Serotine = se			
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.			
Time	Species*	Activity**	Notes including flight direction (if seen)
	Ser		Confirmed as present during sound analysis

Play	Del	Recording	Recorded	Species	Sugg. Species 1st	Sugg. Species	Length	#	Call	Quality	Peak	F	Max	F	Min	F	Call	Le	Dist	Call shape	Location
▶	□	32900048	08/08/2024	Select...	Myotis mystacin	45	1	3.95	14	88.2	53.1	78.1	50.5	3.0	100	0	fm-d(7)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900165	08/08/2024	Select...	Vespertilio murin	61	1	4.51	8	34.0	22.0	22.5	21.3	10.6	430	0	cf-e(8)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900180	08/08/2024	Select...	Myotis myotis	51	1	5.04	22	81.7	47.9	71.2	45.8	3.0	90	0	fm-d(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900195_1	08/08/2024	Select...	Vespertilio murin	40	1	5.16	3	9.8	21.9	22.4	21.1	7.4	101f	0	cf-e(3)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900195_2	08/08/2024	Select...	-	Nal	1	5.16	1	1.0	33.9	40.0	32.6	1.3	0	0	fm-l(1)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900216_1	08/08/2024	Select...	Nyctalus noctula	62	1	15.1	25	71.6	25.5	30.1	23.8	10.0	323	0	cf-e(13)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900216_2	08/08/2024	Select...	-	Nal	1	15.1	1	1.0	38.4	54.0	28.1	2.6	0	0	fm-l(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900217	08/08/2024	Select...	Vespertilio murin	65	1	3.21	4	11.6	23.5	24.6	22.8	10.5	694	0	cf-e(4)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900254_1	08/08/2024	Select...	Vespertilio murin	63	1	4.80	7	71.5	24.1	24.4	22.1	11.0	549	0	cf-e(7)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900254_2	08/08/2024	Select...	-	Nal	1	4.80	1	1.0	32.9	43.6	29.3	5.9	0	0	cf-e(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900255	08/08/2024	Select...	Nyctalus leisleri	62	1	4.05	7	59.6	24.1	24.8	22.6	9.0	459	0	cf-e(7)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900260	08/08/2024	Select...	-	Nal	1	3.52	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900298	08/08/2024	Select...	-	Nal	1	3.48	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900304	08/08/2024	Select...	Nyctalus leisleri	62	1	6.62	7	24.9	24.1	24.7	22.9	9.0	853	0	cf-e(6)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900311	08/08/2024	Select...	Vespertilio murin	45	1	4.18	3	36.5	24.1	25.0	23.0	9.4	419	0	cf-e(3)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900312	08/08/2024	Select...	Vespertilio murin	48	1	3.32	2	9.8	22.9	23.3	22.1	8.2	119f	0	cf-e(2)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900327	08/08/2024	Select...	Nyctalus noctula	65	1	3.71	4	32.8	23.6	24.2	22.6	11.8	575	0	cf-e(4)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900348	08/08/2024	Select...	Vespertilio murin	61	1	5.26	8	12.6	25.0	26.5	23.7	8.6	339	0	cf-n(5)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900349	08/08/2024	Select...	Vespertilio murin	63	1	4.97	6	13.3	25.4	28.1	23.6	9.1	789	0	cf-n(5)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900393	08/08/2024	Select...	Vespertilio murin	62	1	6.15	7	12.0	24.6	27.0	23.2	5.0	775	0	cf-n(5)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900395	08/08/2024	Select...	Eptesicus serotin	49	1	10.9	38	56.7	28.0	44.5	25.8	6.0	150	0	fm-d(2)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900397_1	08/08/2024	Select...	-	Nal	1	3.25	1	1.0	21.0	28.4	11.9	1.3	0	0	fm-l(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900397_2	08/08/2024	Select...	-	Nal	1	3.25	1	1.0	33.2	39.0	27.8	3.9	0	0	cf-n(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900402	08/08/2024	Select...	-	Nal	1	4.10	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900452	08/08/2024	Select...	-	Nal	1	3.07	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900457	08/08/2024	Select...	Nyctalus noctula	69	1	4.00	4	52.2	26.8	30.7	26.0	7.0	512	0	fm-d(2)			51.374704 / 0.401243	
▶	□	32900486	08/08/2024	Select...	-	Nal	1	3.25	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900530	08/08/2024	Select...	-	Nal	1	3.76	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900541_1	08/08/2024	Select...	Pipistrellus pipist	64	1	3.88	5	12.8	47.0	49.3	45.2	7.1	703	0	cf-n(2)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900541_2	08/08/2024	Select...	Plecotus auritus	27	1	3.88	1	1.0	32.9	54.9	32.3	2.0	0	0	fm-l(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900542_1	08/08/2024	◉ Pipistrellus p	Pipistrellus pipist	79	1	4.43	9	99.0	46.4	60.4	45.3	5.0	214	0	fm-d(9)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900542_2	08/08/2024	Select...	-	Nal	1	4.43	2	2.2	32.8	40.1	30.2	3.3	205f	0	cf-n(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900544	08/08/2024	◉ Pipistrellus p	Pipistrellus pipist	83	1	6.07	10	85.7	46.5	58.6	45.5	5.0	350	0	fm-d(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900549	08/08/2024	Select...	-	Nal	1	4.45	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900656	08/08/2024	Select...	Barbastella barba	26	1	3.33	1	1.0	35.7	44.5	30.5	3.9	0	0	cf-n(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900660	08/08/2024	Select...	-	Nal	1	3.50	3	3.4	37.4	42.3	29.6	5.7	546	0	fm-d(3)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900675	08/08/2024	Select...	Myotis myotis	27	1	3.47	2	1.7	37.1	43.6	31.3	5.2	197f	0	fm-d(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900682	08/08/2024	Select...	-	Nal	1	4.83	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900683	08/08/2024	Select...	-	Nal	1	3.19	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900759	08/08/2024	Select...	-	Nal	1	3.82	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900765	08/08/2024	Select...	-	Nal	1	3.53	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900783	08/08/2024	Select...	Pipistrellus kuhlii	33	1	3.15	1	2.1	41.5	48.5	33.2	3.9	0	0	fm-d(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900792	08/08/2024	Select...	-	Nal	1	3.08	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900793_1	08/08/2024	Select...	Nyctalus leisleri	57	1	6.90	5	13.4	26.8	31.4	24.4	8.0	990	0	cf-n(3)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900793_2	08/08/2024	Select...	Plecotus auritus	27	1	6.90	1	1.0	34.8	42.1	28.7	2.0	0	0	fm-l(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900799	08/08/2024	Select...	Eptesicus nilsson	29	1	3.41	1	1.0	33.6	42.1	27.8	5.9	0	0	fm-d(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900823	08/08/2024	Select...	-	Nal	1	3.75	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900860	08/08/2024	Select...	Nyctalus leisleri	60	1	9.16	13	70.1	25.6	29.2	24.7	6.0	559	0	cf-e(6)			51.374671 / 0.401218	
▶	□	32900873	08/08/2024	Select...	Pipistrellus kuhlii	26	1	3.24	1	1.0	38.1	48.2	32.3	1.3	0	0	fm-l(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900876	08/08/2024	Select...	Barbastella barba	26	1	3.14	1	1.0	34.2	44.5	28.1	1.3	0	0	fm-l(1)			Henley Street, Luddesdown, Gravesham, Kent	
▶	□	32900910	08/08/2024	Select...	Nyctalus noctula	63	1	10.2	11	56.0	24.4	26.5	22.6	7.0	749	0	cf-e(8)			51.374596 / 0.401207	
▶	□	32900911_1	08/08/2024	Select...	Vespertilio murin	39	1	3.96	2	7.9	25.5	26.1	23.3	10.8	298	0	cf-e(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900911_2	08/08/2024	Select...	Pipistrellus kuhlii	31	1	3.96	2	7.1	35.1	36.0	33.4	4.6	188f	0	fm-l(1)			Golden Lion, Luddesdown Road, Luddesdown	
▶	□	32900922	08/08/2024	Select...	-	Nal	1	3.20	0	1.0	0.0	0.0	0.0	0.0	0	0	0	0	0	Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900937_1	08/08/2024	Select...	Plecotus auritus	32	1	3.31	1	1.0	22.3	33.6	17.7	2.0	0	0	fm-l(1)			Luddesdown Road, Luddesdown, Gravesham,	
▶	□	32900937_2	08/08/2024	Select...	Eptesicus nilsson	28	1	3.31	1	1.0	30.2	30.2	29.9	11.1	0	0	cf-e(1)			Luddesdown Road, Luddesdown, Gravesham,	

BAT SURVEY FORM 2024		Surveyor name	Matt Kelk
Site Name- visit no.	The Golden Lion 2	Date	15/09/2024
Start Time	18:57	Finish Time	20:42
Sunset Time	19:12	Detector number/colour	Green
Position Relative to Structure	N-NW of the outbuildings	Weather Conditions pre sunset	40% cloud
Air Temperature Start	18°C	Air Temperature End	17
Brief summary (fill out at end of survey)	19:50 check camera as I couldn't see where it came from. Lots of foraging up and down the road.		
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislers Noctule = Leis; Serotine = se			
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.			
Time	Species*	Activity**	Notes including flight direction (if seen)
19:48-19:50			commuting bats seen at this time during video review
	NOC, P45 & P55		Confirmed as present during sound analysis

Play	Dele	Recording	Recorded	Species	Sugg. Species	1st	Sugg. Spec	Lengt	#	Call	Quality	Peak	f	Max	F	Min	F	Call	le	Distar	Call shape	Location
▶	🗑	06070000	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	74	1	3.82	10	99.0	47.4	75.8	46.8	5.0	170		fm-d(7)			Luddesdown Road, Luddesdown, Gravesham,	
▶	🗑	06070001_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	59	1	3.53	4	63.5	49.5	71.5	48.6	3.0	124		fm-l(3)			Luddesdown Road, Luddesdown, Gravesham,	
▶	🗑	06070001_2	15/09/2024	Select...	-	Nal		1	3.53	1	9.5	19.9	25.1	14.3	8.0	0		fm-d(1)	51.37431	/ 0.40072		
▶	🗑	06070002	15/09/2024	Select...	Myotis	myotis	38	1	5.00	8	77.9	48.6	55.7	39.4	3.0	404		fm-l(3)	51.37429	/ 0.40077		
▶	🗑	06070028	15/09/2024	Select...	Pipistrellus	pipist	49	1	4.39	9	55.9	52.1	94.8	45.5	3.0	156		fm-d(7)	51.37432	/ 0.40069		
▶	🗑	06070031	15/09/2024	Select...	Nyctalus	noctula	68	1	4.11	10	80.5	26.1	30.0	24.2	10.0	418		cf-n(6)	51.37431	/ 0.40075		
▶	🗑	06070032	15/09/2024	Select...	Vespertilio	murin	48	1	2.27	3	76.4	24.1	25.3	23.0	8.9	311		cf-e(2)	51.37431	/ 0.40076		
▶	🗑	06070034	15/09/2024	Select...	Pipistrellus	pipist	48	1	4.42	13	83.8	46.8	95.0	42.2	4.0	85		fm-d(9)	51.37429	/ 0.40076		
▶	🗑	06070037_2	15/09/2024	Select...	Myotis	alcahoe	26	1	3.86	1	7.0	59.6	75.0	51.0	1.6	0		fm-l(1)	51.3743	/ 0.40072		
▶	🗑	06070037_1	15/09/2024	Select...	Pipistrellus	pipist	50	1	3.86	8	34.7	50.6	62.8	45.3	3.0	144		fm-d(5)	51.3743	/ 0.40072		
▶	🗑	06070044_1	15/09/2024	Select...	Vespertilio	murin	42	1	2.70	2	60.8	21.8	21.9	20.3	12.8	314		cf-e(2)	51.37432	/ 0.40076		
▶	🗑	06070044_2	15/09/2024	Select...	Vespertilio	murin	40	1	2.70	1	13.3	25.9	34.1	24.8	12.8	0		cf-n(1)	51.37432	/ 0.40076		
▶	🗑	06070045	15/09/2024	Select...	Vespertilio	murin	58	1	2.36	4	44.1	21.8	22.0	20.8	11.5	660		cf-e(4)	51.37431	/ 0.40077		
▶	🗑	06070046	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	62	1	6.52	14	74.5	48.2	88.0	45.6	3.0	170		fm-d(9)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070047	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	83	1	8.58	16	99.0	47.4	83.1	46.1	4.0	174		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070048	15/09/2024	Select...	Pipistrellus	pygmy	78	1	4.12	5	99.0	54.0	106.	53.2	4.0	80		fm-d(5)	51.3743	/ 0.40072		
▶	🗑	06070058	15/09/2024	Select...	Barbastella	barbi	31	1	2.28	1	14.0	33.4	38.3	26.3	3.7	0		fm-a(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070064	15/09/2024	Select...	-	Nal		1	3.29	1	7.4	31.1	34.5	27.8	4.3	0		cf-n(1)	51.37433	/ 0.40071		
▶	🗑	06070073	15/09/2024	Select...	Nyctalus	leisteri	61	1	4.05	5	40.8	24.6	26.5	24.1	8.9	397		cf-e(4)	51.37431	/ 0.40072		
▶	🗑	06070075	15/09/2024	Select...	Nyctalus	noctula	66	1	5.22	11	24.5	25.9	27.4	24.5	5.0	436		cf-e(9)	51.37429	/ 0.40076		
▶	🗑	06070078	15/09/2024	Select...	Myotis	myotis	44	1	4.15	9	40.6	47.0	70.0	45.6	3.0	247		fm-l(7)	51.37429	/ 0.40077		
▶	🗑	06070080	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	80	1	6.52	13	99.0	47.6	72.7	46.8	4.0	100		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070081_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	70	1	6.59	11	99.0	47.6	85.2	45.9	5.0	270		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070081_2	15/09/2024	Select...	Nyctalus	noctula	32	1	6.59	1	12.1	22.5	27.8	16.5	4.8	0		fm-d(1)	51.37425	/ 0.40083		
▶	🗑	06070085	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	81	1	6.12	11	99.0	47.3	75.8	46.4	5.0	90		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070086	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	79	1	7.08	14	99.0	47.2	76.8	46.2	4.0	190		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070087_3	15/09/2024	Select...	Barbastella	barbi	30	1	8.95	1	11.5	32.6	47.6	31.9	3.2	0		fm-l(1)	51.37427	/ 0.4008		
▶	🗑	06070087_2	15/09/2024	Select...	-	Nal		1	8.95	1	5.0	18.4	27.4	14.3	5.3	0		fm-d(1)	51.37427	/ 0.4008		
▶	🗑	06070087_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	69	1	8.95	23	95.4	48.6	85.4	46.6	5.0	105		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070088	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	82	1	9.17	17	98.8	47.8	79.0	46.7	4.0	90		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070089_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	82	1	8.01	20	99.0	47.8	83.0	46.9	4.0	90		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070089_2	15/09/2024	Select...	Plecotus	austriac	27	1	8.01	2	11.0	21.6	28.1	16.5	3.7	101		fm-l(2)	51.37425	/ 0.40081		
▶	🗑	06070090_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	62	1	4.65	17	66.6	48.6	71.6	47.4	4.0	190		fm-l(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070090_2	15/09/2024	Select...	Barbastella	barbi	29	1	4.65	1	7.1	35.3	41.3	30.0	3.7	0		fm-d(1)	51.37424	/ 0.40078		
▶	🗑	06070091_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	70	1	4.49	14	87.1	47.7	68.6	46.0	4.0	161		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070091_2	15/09/2024	Select...	Nyctalus	noctula	29	1	4.49	1	8.0	17.3	27.0	15.0	4.8	0		fm-d(1)	51.37427	/ 0.40071		
▶	🗑	06070092	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	59	1	2.77	4	63.7	46.9	65.6	45.7	5.5	196		fm-d(3)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070093	15/09/2024	Select...	Vespertilio	murin	64	1	2.73	4	99.0	24.4	24.9	23.7	8.8	471		cf-e(4)	51.37425	/ 0.40086		
▶	🗑	06070094	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	71	1	5.91	10	99.0	47.4	85.2	46.4	4.0	214		fm-d(9)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070095	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	84	1	8.12	16	99.0	47.3	82.6	44.3	4.0	95		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070096_1	15/09/2024	Select...	Pipistrellus	pipist	75	1	2.96	8	23.9	48.0	59.4	47.2	4.0	90		fm-d(5)	51.37425	/ 0.40083		
▶	🗑	06070096_2	15/09/2024	Select...	-	Nal		1	2.96	2	14.1	19.3	24.6	15.6	5.3	943		cf-e(1)	51.37425	/ 0.40083		
▶	🗑	06070097	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	78	1	8.01	16	99.0	47.2	77.6	45.7	4.0	90		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070099_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	86	1	8.19	15	99.0	47.5	78.8	46.7	5.0	100		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070099_2	15/09/2024	Select...	-	Nal		1	8.19	1	5.8	16.1	22.1	14.3	6.4	0		cf-e(1)	51.37423	/ 0.40083		
▶	🗑	06070099_3	15/09/2024	Select...	Pipistrellus	kuhiu	29	1	8.19	1	6.7	32.6	48.8	31.9	3.7	0		fm-d(1)	51.37423	/ 0.40083		
▶	🗑	06070100_2	15/09/2024	Select...	Nyctalus	noctula	27	1	5.17	3	14.7	17.5	23.5	15.5	4.8	117		cf-e(1)	51.37425	/ 0.40079		
▶	🗑	06070100_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	65	1	5.17	11	83.0	46.8	55.6	46.0	5.0	295		fm-d(5)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070101_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	73	1	5.03	9	94.4	47.6	73.1	46.3	4.0	260		fm-d(6)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070101_2	15/09/2024	Select...	Pipistrellus	pygmy	30	1	5.03	1	27.5	57.0	103.	48.8	3.7	0		fm-d(1)	51.37425	/ 0.40079		
▶	🗑	06070102	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	83	1	8.85	27	71.3	46.9	59.8	46.1	5.0	100		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070121	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	54	1	3.29	7	35.8	45.6	50.0	44.7	4.0	331		cf-e(3)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070127_1	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	62	1	3.92	10	56.6	45.6	48.5	44.7	5.0	279		cf-e(5)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070127_2	15/09/2024	Select...	-	Nal		1	3.92	1	9.0	32.3	37.9	29.6	6.4	0		cf-e(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070145	15/09/2024	Select...	-	Nal		1	3.28	0	1.0	0.0	0.0	0.0	0.0	0			51.37433	/ 0.40076		
▶	🗑	06070159	15/09/2024	Select...	Myotis	myotis	27	1	2.23	1	8.6	36.4	47.6	28.5	4.8	0		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070179	15/09/2024	Select...	-	Nal		1	3.42	2	12.8	89.1	91.3	85.5	6.9	316		cf-n(2)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070180_1	15/09/2024	Select...	-	Nal		1	2.34	2	12.6	89.4	90.6	86.1	4.0	107		fm-l(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070180_2	15/09/2024	Select...	Pipistrellus	pipist	27	1	2.34	1	8.1	49.9	80.6	49.5	1.1	0		fm-l(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070186	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	85	1	4.84	12	99.0	48.3	94.0	46.2	4.0	90		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070189	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	73	1	8.38	23	80.4	46.5	59.2	45.1	4.0	110		fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070198	15/09/2024	Select...	Myotis	myotis	48	1	3.02	7	56.0	50.7	63.9	47.7	4.0	169		fm-l(2)	51.37432	/ 0.40074		
▶	🗑	06070200	15/09/2024	◉ Pipistrellus p	Pipistrellus	pipist	69	1	2.82	4	99.0	48.3	86.8	47.4	5.1	74		fm-d(4)	Luddesdown Road, Luddesdown, Gravesham,			
▶	🗑	06070216	15/09/2024	Select...	-	Nal		1	5.30	1	24.1	89.6	90.0	84.4	4.8	0		cf-n(1)	51.37428	/ 0.40072		
▶	🗑	06070217	15/09/2024	Select...	-	Nal		1	3.42	1	2.9	27.8	81.0	14.3	1.1	0		fm-l(1)	51.37428	/ 0.40072		
▶	🗑	06070219_4	1																			

BAT SURVEY FORM 2024		Surveyor name	Chris Potts
Site Name- visit no.	The Golden Lion 2	Date	15/09/2024
Start Time	18:57	Finish Time	20:42
Sunset Time	19:12	Detector number/colour	purple
Position Relative to Structure	North side	Weather Conditions pre sunset	wind 0 cloud 60%
Air Temperature Start	18'c	Air Temperature End	17'c
Brief summary (fill out at end of survey)	first bat detected at 19:28, quite a lot of activity detected throughout the survey but nothing seen. rain stopped play at around 20:30		
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislers Noctule = Leis; Serotine = se			
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.			
Time	Species*	Activity**	Notes including flight direction (if seen)
	NOC, P45 & p55		Confirmed as present during sound analysis

Play Del	Recording	Recorded	Species	Sugg. Species 1st	Sugg Spec	Length	#	Call	Quality	Peak	I	Max F	Min F	Call le	Distar	Call shape	Location
▶	06020002	15/09/2024	Select...	-	Nal	1	2.79	0	1.0	0.0	0.0	0.0	0.0	0			Henley Street, Luddesdown, Gravesham, Kent
▶	06020004	15/09/2024	Select...	-	Nal	1	3.59	0	1.0	0.0	0.0	0.0	0.0	0			Henley Street, Luddesdown, Gravesham, Kent
▶	06020007	15/09/2024	Select...	Myotis myotis	45	1	5.39	8	31.6	47.6	55.5	41.1	2.0	285	↘	fm-l(5)	51.37477 / 0.40141
▶	06020011	15/09/2024	Select...	Vespertilio murin	69	1	2.90	5	24.5	22.1	23.0	21.0	16.9	606	↘	cf-e(5)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020014	15/09/2024	Select...	-	Nal	1	2.42	0	1.0	0.0	0.0	0.0	0.0	0			Henley Street, Luddesdown, Gravesham, Kent
▶	06020020	15/09/2024	Select...	Myotis mystacin	50	1	2.69	18	23.8	49.2	65.3	46.9	3.0	80	↘	fm-l(1)	51.37475 / 0.40139
▶	06020024	15/09/2024	Select...	Vespertilio murin	66	1	2.25	5	99.0	24.6	25.3	23.6	6.0	320	↘	cf-e(5)	51.37474 / 0.40137
▶	06020030	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	76	1	3.90	9	51.5	46.7	80.6	45.6	4.0	159	↘	fm-d(6)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020033	15/09/2024	Select...	Vespertilio murin	43	1	3.21	1	12.4	22.1	22.5	21.4	17.1	0	↘	cf-e(1)	51.37474 / 0.40135
▶	06020044	15/09/2024	Select...	Myotis alcathoe	48	1	3.61	8	33.8	48.7	55.7	41.5	2.0	343	↘	fm-l(5)	51.37474 / 0.40135
▶	06020070	15/09/2024	Select...	Vespertilio murin	57	1	4.78	8	54.6	26.5	27.8	25.5	5.0	355	↘	cf-e(4)	51.37476 / 0.40138
▶	06020073_2	15/09/2024	Select...	-	Nal	1	2.41	2	8.4	16.5	28.1	12.0	4.3	476	↘	fm-d(1)	51.37473 / 0.40131
▶	06020073_1	15/09/2024	Select...	Vespertilio murin	58	1	2.41	5	18.9	26.2	31.9	24.7	7.5	176	↘	cf-n(4)	51.37473 / 0.40131
▶	06020083	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	73	1	3.28	6	91.8	45.5	54.4	44.4	7.0	218	↘	fm-d(5)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020101_1	15/09/2024	Select...	Nyctalus noctula	59	1	2.22	4	23.4	27.8	30.6	25.9	8.4	89	↘	cf-n(3)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020101_2	15/09/2024	Select...	Vespertilio murin	40	1	2.22	1	14.6	22.5	23.3	21.0	12.3	0	↘	cf-e(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020102	15/09/2024	Select...	Nyctalus leisleri	65	1	2.68	6	24.8	24.8	25.4	23.9	7.5	312	↘	cf-e(5)	51.37474 / 0.40133
▶	06020103	15/09/2024	Select...	Nyctalus noctula	62	1	3.90	10	56.7	23.9	25.7	22.5	10.0	400	↘	cf-e(6)	51.37474 / 0.40131
▶	06020118	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	71	1	4.95	21	39.1	47.1	60.6	45.6	4.0	84	↘	fm-d(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020127_1	15/09/2024	Select...	Pipistrellus pipist	59	1	2.95	5	24.2	47.0	55.7	46.2	3.0	308	↘	fm-d(3)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020127_2	15/09/2024	Select...	-	Nal	1	2.95	1	6.6	89.6	93.4	85.1	9.1	0	↘	fm-a(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020131	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	86	1	3.86	17	52.5	45.9	55.2	45.0	5.0	200	↘	fm-d(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020132	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	79	1	3.01	13	67.6	45.8	53.5	44.8	5.0	90	↘	fm-d(9)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020133	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	75	1	5.11	16	99.0	45.0	46.6	44.2	6.0	205	↘	cf-e(14)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020134	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	67	1	3.52	14	52.1	45.6	49.9	44.7	6.0	210	↘	fm-d(5)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020140	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	71	1	5.49	16	99.0	45.5	51.8	44.7	6.0	110	↘	cf-e(8)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020141	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	74	1	2.28	13	48.8	46.1	56.8	45.1	5.0	100	↘	fm-d(8)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020142_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	62	1	2.87	11	53.2	47.8	58.7	46.9	3.0	80	↘	fm-d(7)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020142_2	15/09/2024	Select...	-	Nal	1	2.87	1	6.5	90.0	90.4	84.8	4.8	0	↘	cf-n(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020143	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	65	1	3.43	14	35.4	48.6	59.8	47.7	3.0	80	↘	fm-l(9)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020144	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	75	1	3.73	12	30.9	47.5	58.3	46.7	4.0	180	↘	fm-d(7)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020145	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	56	1	2.54	9	32.7	48.6	58.3	47.0	4.0	210	↘	fm-d(5)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020146	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	62	1	2.69	8	43.7	48.3	62.9	47.5	3.0	199	↘	fm-l(4)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020147	15/09/2024	Select...	Pipistrellus pipist	76	1	2.53	8	24.1	47.6	57.7	46.8	5.0	216	↘	fm-d(5)	51.37474 / 0.40138
▶	06020149	15/09/2024	Select...	Pipistrellus pipist	68	1	3.61	15	23.8	48.1	60.6	47.1	4.0	180	↘	fm-d(9)	51.37473 / 0.40135
▶	06020150_2	15/09/2024	Select...	Nyctalus noctula	34	1	2.86	1	10.9	19.5	25.1	17.6	6.4	0	↘	fm-d(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020150_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	77	1	2.86	8	53.0	47.4	62.8	46.5	5.0	350	↘	fm-d(6)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020151	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	62	1	2.55	9	41.8	47.5	57.0	46.3	6.0	221	↘	fm-d(4)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020152	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	59	1	4.26	14	35.5	47.7	59.3	46.5	4.0	214	↘	fm-d(7)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020153	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	74	1	3.16	13	48.0	46.6	52.3	45.7	4.0	100	↘	fm-d(7)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020155_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	65	1	3.81	9	40.2	46.4	53.2	44.7	5.0	293	↘	fm-d(5)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020155_2	15/09/2024	Select...	-	Nal	1	3.81	2	11.9	19.9	31.1	15.0	2.9	31	↘	fm-l(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020156_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	63	1	2.68	4	63.0	46.5	52.6	44.5	4.8	226	↘	fm-d(2)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020156_2	15/09/2024	Select...	-	Nal	1	2.68	1	7.0	39.8	45.8	29.6	6.9	0	↘	fm-a(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020157_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	53	1	2.20	6	35.6	49.4	58.7	47.5	3.0	260	↘	fm-l(4)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020157_2	15/09/2024	Select...	-	Nal	1	2.20	1	5.2	89.6	90.0	87.8	5.9	0	↘	cf-n(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020158_2	15/09/2024	Select...	-	Nal	1	3.14	1	5.2	27.4	32.6	12.0	3.7	0	↘	fm-d(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020158_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	71	1	3.14	20	29.5	50.0	62.0	47.5	5.0	90	↘	fm-d(1)	Henley Street, Luddesdown, Gravesham, Kent
▶	06020158_3	15/09/2024	Select...	Myotis alcathoe	30	1	3.14	1	4.0	58.9	63.0	50.6	2.7	0	↘	fm-l(1)	Henley Street, Luddesdown, Gravesham, Kent

BAT SURVEY FORM 2024		Surveyor name	Charlie Birch
Site Name- visit no.	The Golden Lion 2	Date	15/09/2024
Start Time	18:57	Finish Time	20:42

Sunset Time	19:12	Detector number/colour	batlogger M 1818-3290
Position Relative to Structure	SW of the pub (back garden)	Weather Conditions pre sunset	Light wind, 40 cloud
Air Temperature Start	18	Air Temperature End	17
Brief summary (fill out at end of survey)	Very little activity, noctule foraging HNS and p45 brief foraging HNS. Finished 10 minutes early due to sudden rain.		
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislers Noctule = Leis; Serotine = se			
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.			
Time	Species*	Activity**	Notes including flight direction (if seen)

Play Delr	Recording	Recorded	Species	Sugg. Species 1st	Sugg Specie	Length	# Call	Quality	Peak	Max F	Min F	Call le	Distar	Call shape	Location	
▶	32900017	15/09/2024	Select...	Vespertilio murin	66	1	4.52	7	36.8	22.7	23.2	21.5	18.0	498	cf-e(6)	51.374364 / 0.401262
▶	32900018	15/09/2024	Select...	Vespertilio murin	66	1	3.35	7	25.2	23.1	23.4	21.7	12.3	462	cf-e(7)	51.374361 / 0.401267
▶	32900028	15/09/2024	Select...	Nyctalus noctula	62	1	8.35	21	91.2	25.2	28.9	23.8	9.0	307	cf-e(10)	51.374347 / 0.401192
▶	32900032	15/09/2024	Select...	Vespertilio murin	69	1	5.63	5	79.4	23.6	24.3	22.6	11.4	873	cf-e(5)	51.374379 / 0.401245
▶	32900033	15/09/2024	Select...	Vespertilio murin	49	1	3.32	2	11.1	22.9	23.2	22.1	11.5	171	cf-e(2)	51.3744 / 0.401231
▶	32900035	15/09/2024	Select...	Nyctalus noctula	56	1	13.2	21	60.7	22.1	22.4	20.3	14.0	290	cf-e(21)	51.374397 / 0.401198
▶	32900037	15/09/2024	Select...	Vespertilio murin	65	1	5.09	15	13.6	23.8	25.8	22.7	10.0	263	cf-n(11)	51.37443 / 0.40112
▶	32900040	15/09/2024	Select...	Vespertilio murin	64	1	3.31	4	33.7	23.6	24.0	22.6	8.4	371	cf-e(4)	51.374418 / 0.401144
▶	32900041	15/09/2024	Select...	Nyctalus leisleri	69	1	4.34	5	46.7	24.7	25.1	23.9	7.0	710	cf-e(5)	51.374397 / 0.401177
▶	32900043	15/09/2024	Select...	Nyctalus leisleri	64	1	4.57	8	13.8	25.4	26.2	24.5	8.8	414	cf-e(6)	51.374401 / 0.401174
▶	32900045	15/09/2024	Select...	Nyctalus leisleri	63	1	5.94	10	54.9	25.3	26.1	24.4	6.0	494	cf-e(8)	51.374464 / 0.401043
▶	32900048	15/09/2024	Select...	Nyctalus leisleri	62	1	8.04	10	54.6	25.4	26.1	24.3	5.0	574	cf-e(8)	51.374408 / 0.40114
▶	32900053	15/09/2024	Select...	Nyctalus leisleri	43	1	3.43	3	9.9	24.9	25.3	24.2	5.2	966	cf-e(3)	51.374423 / 0.401165
▶	32900054	15/09/2024	Select...	Nyctalus leisleri	63	1	3.36	7	47.6	25.0	25.8	23.9	7.6	311	cf-e(6)	51.374429 / 0.401157
▶	32900057	15/09/2024	Select...	Nyctalus leisleri	59	1	3.26	4	72.6	23.9	25.1	22.8	6.6	217	cf-e(3)	51.374382 / 0.401199
▶	32900061	15/09/2024	Select...	Nyctalus leisleri	64	1	5.60	9	59.1	24.6	25.1	23.8	8.5	404	cf-e(8)	51.374426 / 0.401104
▶	32900063	15/09/2024	Select...	Vespertilio murin	45	1	3.01	3	64.1	23.0	23.4	22.5	7.4	202	cf-e(3)	51.374418 / 0.401154
▶	32900069	15/09/2024	Pipistrellus p	Pipistrellus pipist	61	1	3.93	18	31.3	47.2	53.9	46.4	3.0	90	fm-l(1)	51.374427 / 0.401148
▶	32900070	15/09/2024	Pipistrellus p	Pipistrellus pipist	63	1	4.73	15	29.6	47.2	53.4	46.3	3.0	100	fm-l(1)	51.374428 / 0.401145
▶	32900071	15/09/2024	Pipistrellus p	Pipistrellus pipist	63	1	3.48	16	33.7	47.0	54.8	46.2	3.0	90	fm-l(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	32900072	15/09/2024	Pipistrellus p	Pipistrellus pipist	66	1	3.31	9	40.4	46.8	53.7	46.1	4.0	244	fm-d(5)	51.3744 / 0.401174
▶	32900073	15/09/2024	Pipistrellus p	Pipistrellus pipist	66	1	8.01	17	56.4	47.4	58.4	46.5	4.0	90	fm-l(9)	Golden Lion, Luddesdown Road, Luddesdown
▶	32900075_1	15/09/2024	Pipistrellus p	Pipistrellus pipist	60	1	7.34	21	32.8	47.2	54.3	46.4	3.0	95	fm-l(1)	51.374429 / 0.401166
▶	32900075_2	15/09/2024	Select...	Nyctalus leisleri	64	1	7.34	7	14.1	24.2	24.7	23.5	7.8	974	cf-e(7)	51.374429 / 0.401166
▶	32900076	15/09/2024	Select...	Pipistrellus pipist	45	1	3.57	13	42.3	47.4	56.4	46.5	3.0	95	fm-l(1)	51.374431 / 0.401135
▶	32900077	15/09/2024	Select...	Nyctalus leisleri	64	1	5.50	6	82.1	24.5	25.1	23.8	7.8	650	cf-e(6)	51.374417 / 0.401122
▶	32900081	15/09/2024	Select...	Nyctalus leisleri	65	1	3.71	5	47.0	23.2	23.8	22.6	10.6	364	cf-e(5)	51.374426 / 0.401141
▶	32900088	15/09/2024	Select...	Pipistrellus pipist	60	1	4.66	17	22.7	47.0	53.9	46.2	3.0	94	fm-l(1)	51.374413 / 0.401147
▶	32900093_1	15/09/2024	Select...	Vespertilio murin	54	1	5.22	4	73.6	23.1	23.3	21.0	11.1	636	cf-e(4)	Golden Lion, Luddesdown Road, Luddesdown
▶	32900093_2	15/09/2024	Select...	Pipistrellus pipist	37	1	5.22	1	23.3	47.6	59.8	46.4	4.6	0	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	32900100	15/09/2024	Select...	Pipistrellus pipist	33	1	3.77	2	48.7	45.8	50.9	45.1	4.3	101	fm-l(1)	51.374239 / 0.401082
▶	32900101	15/09/2024	Pipistrellus p	Pipistrellus pipist	77	1	12.6	33	54.8	45.8	48.5	45.0	5.0	290	cf-e(14)	51.374233 / 0.401091
▶	32900103	15/09/2024	Select...	Pipistrellus pipist	72	1	4.13	12	20.3	45.5	49.5	44.8	4.0	315	fm-d(6)	51.374314 / 0.401182
▶	32900108	15/09/2024	Pipistrellus p	Pipistrellus pipist	70	1	5.54	12	88.4	44.7	45.4	43.8	7.0	279	cf-e(11)	51.374348 / 0.401143
▶	32900109	15/09/2024	Pipistrellus p	Pipistrellus pipist	71	1	3.31	12	47.1	48.0	54.1	46.7	5.0	165	fm-d(5)	Golden Lion, Luddesdown Road, Luddesdown
▶	32900134	15/09/2024	Pipistrellus p	Pipistrellus pipist	60	1	3.35	22	38.6	48.1	55.2	46.6	3.0	60	fm-l(1)	51.374361 / 0.401205

BAT SURVEY FORM 2024		Surveyor name	Jack Clark
Site Name- visit no.	The Golden Lion 2	Date	15/09/2024
Start Time	18:57	Finish Time	20:42
Sunset Time	19:12	Detector number/colour	gold
Position Relative to Structure	North	Weather Conditions pre sunset	still cloud 80
Air Temperature Start	18	Air Temperature End	17

Brief summary (fill out at end of survey)		light bat activity detected. p45 seen commuting along the road and noc hns.	
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislars Noctule = Leis; Serotine = se			
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.			
Time	Species*	Activity**	Notes including flight direction (if seen)

Play/Det	Recording	Recorded	Species	Sugg. Species 1st	Sugg. Species	Length	#	Call	Quality	Peak	Max F	Min F	Call le	Distance	Call shape	Location
▶	04610001	15/09/2024	Select...	Myotis alcaethoe	49	1	3.25	4	41.3	49.8	51.5	39.6	3.1	482	fm-a(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610002	15/09/2024	Select...	Myotis alcaethoe	33	1	2.22	2	19.0	48.8	53.1	42.4	2.9	889	cf-e(1)	51.37467 / 0.40113
▶	04610004	15/09/2024	Select...	Vespertilio murin	65	1	2.89	8	24.7	22.4	23.9	21.3	16.1	355	cf-e(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610013	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	57	1	4.55	8	99.0	49.0	115.	46.4	4.0	103	fm-d(8)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610016	15/09/2024	Select...	Nyctalus noctula	65	1	2.35	6	65.6	26.3	28.4	25.0	6.5	415	cf-e(3)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610017	15/09/2024	Select...	Vespertilio murin	64	1	3.35	6	79.2	24.0	24.8	22.5	7.0	230	cf-e(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610018	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	64	1	3.88	12	64.3	47.9	83.0	46.3	4.0	84	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610021	15/09/2024	Select...	Vespertilio murin	49	1	2.76	3	76.7	22.9	23.6	20.1	12.0	489	cf-e(3)	51.37466 / 0.40108
▶	04610024	15/09/2024	Select...	Myotis bechsteir	37	1	4.56	12	35.5	47.1	85.3	45.3	2.0	80	fm-l(7)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610026	15/09/2024	Select...	Vespertilio murin	30	1	3.20	2	60.2	22.1	22.5	18.2	12.0	523	cf-e(2)	51.37468 / 0.40107
▶	04610032	15/09/2024	Select...	Myotis alcaethoe	50	1	5.88	14	46.8	48.3	56.0	40.7	2.0	320	fm-l(1)	51.37466 / 0.40117
▶	04610036	15/09/2024	Select...	Vespertilio murin	57	1	2.38	4	44.1	24.0	24.6	22.5	7.2	392	cf-n(2)	51.37467 / 0.40113
▶	04610037	15/09/2024	Select...	Nyctalus leisleri	63	1	3.12	4	44.3	25.0	27.4	23.2	6.0	313	cf-e(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610041	15/09/2024	Select...	Nyctalus leisleri	60	1	2.79	7	58.3	26.0	26.8	25.0	6.0	361	cf-e(4)	51.37463 / 0.4011
▶	04610050	15/09/2024	Select...	Nyctalus noctula	63	1	2.40	5	23.5	24.7	25.4	23.8	10.3	288	cf-e(4)	51.37464 / 0.40115
▶	04610051	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	56	1	3.08	12	30.5	48.6	62.2	47.7	3.0	90	fm-l(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610053	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	76	1	3.10	15	45.1	47.3	61.7	46.5	3.0	85	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610054	15/09/2024	Select...	Nyctalus leisleri	62	1	2.77	5	41.1	26.1	27.0	25.3	6.0	466	cf-e(4)	51.37467 / 0.40114
▶	04610055	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	83	1	6.94	19	99.0	47.7	87.3	46.9	4.0	180	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610056	15/09/2024	Select...	Nyctalus leisleri	65	1	5.91	11	47.2	24.7	25.7	23.5	9.2	379	cf-e(9)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610062	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	74	1	5.74	9	99.0	47.7	82.3	47.0	5.0	90	fm-d(8)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610065	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	77	1	4.46	8	99.0	47.7	87.5	46.8	5.0	160	fm-d(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610069	15/09/2024	Select...	Nyctalus leisleri	64	1	2.42	5	24.7	23.9	24.4	23.1	9.0	406	cf-e(5)	51.37465 / 0.40113
▶	04610071	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	79	1	4.57	14	94.0	47.1	73.6	46.4	5.0	190	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610076	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	75	1	5.66	10	99.0	46.3	80.9	45.6	4.0	90	fm-d(9)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610082	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	87	1	5.55	18	96.2	46.2	65.7	45.3	5.0	200	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610083	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	74	1	4.87	12	99.0	45.6	53.3	44.7	6.0	110	fm-d(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610084	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	85	1	9.92	35	99.0	45.9	55.0	44.9	6.0	210	fm-d(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610092	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	70	1	3.92	11	76.1	45.1	48.4	44.5	6.0	209	cf-e(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610093	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	87	1	3.78	11	83.4	45.8	64.7	44.9	5.0	200	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610095	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	77	1	4.01	8	85.1	47.3	61.5	46.4	4.0	227	fm-d(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610096	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	63	1	4.94	13	42.9	48.1	62.7	47.0	4.0	315	fm-d(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610097	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	80	1	4.70	15	89.3	47.9	68.3	46.5	5.0	200	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610099	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	78	1	3.93	10	81.2	47.4	69.2	46.7	4.0	180	fm-d(8)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610100	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	80	1	4.17	9	96.6	48.1	81.5	47.1	4.0	190	fm-d(9)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610101	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	83	1	3.14	10	64.9	47.5	56.1	46.0	5.0	217	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610102	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	79	1	3.49	8	99.0	47.8	76.6	46.9	5.0	173	fm-d(8)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610103_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	86	1	6.11	17	76.9	47.4	68.3	46.4	5.0	193	fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610103_2	15/09/2024	Select...	-	Nal	1	6.11	1	8.1	57.0	61.9	48.4	2.1	0	fm-l(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610104_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	87	1	4.74	13	93.4	47.1	59.9	46.0	5.0	100	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610104_2	15/09/2024	Select...	-	Nal	1	4.74	1	8.2	37.9	46.9	27.0	1.6	0	fm-l(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610105	15/09/2024	Select...	Pipistrellus pipist	49	1	2.34	9	33.3	47.3	59.4	45.5	4.0	239	fm-l(4)	51.37467 / 0.40109
▶	04610107	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	85	1	4.31	12	99.0	47.6	64.3	46.4	5.0	210	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610108	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	83	1	4.38	10	97.3	47.9	68.1	46.7	5.0	195	fm-d(9)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610109_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	74	1	6.17	27	62.4	47.8	63.9	44.9	5.0	90	fm-d(2)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610109_2	15/09/2024	Select...	Nyctalus noctula	31	1	6.17	1	12.6	19.1	19.5	18.0	5.9	0	cf-e(1)	51.37466 / 0.40109
▶	04610110	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	83	1	4.73	15	61.5	47.9	67.7	46.9	4.0	190	fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610111	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	83	1	3.29	16	69.4	47.2	61.9	45.1	5.0	210	fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610112	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	85	1	3.50	14	81.6	48.5	70.3	47.3	4.0	172	fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	04610113	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	72	1	11.6	46	80.6	47.2	65.0	45.3	5.0	94	fm-d(3)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610114	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	76	1	6.47	27	95.7	48.3	73.8	47.0	5.0	90	fm-d(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610115	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	85	1	4.25	14	64.8	47.5	58.8	46.1	5.0	100	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610116	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	65	1	4.69	9	77.7	48.1	70.5	46.6	4.0	356	fm-d(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610117	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	85	1	4.98	16	75.0	47.7	64.2	46.5	5.0	241	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610118	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	61	1	2.70	9	33.4	48.5	63.2	47.3	4.0	181	fm-l(6)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610119	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	73	1	4.45	18	60.3	48.0	65.0	46.3	4.0	90	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610121	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	82	1	3.78	10	88.9	48.6	72.7	47.3	4.0	190	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	04610122	15/09/2024	Select...	Pipistrellus pipist	49	1	2.64	16	64.3	49.3	76.0	47.3	3.0	70	fm-l(9)	51.37463 / 0.40119
▶	04610124	15/09/2024	Select...	Myotis alcaethoe	53	1	2.27	5	56.0	50.8	71.8	48.0	3.7	338	fm-l(2)	51.37466 / 0.40115
▶	04610127	15/09/2024	Select...	Myotis myotis	49	1	3.58	19	41.3	50.3	75.4	48.1	3.0	74	fm-l(1)	51.37467 / 0.40119
▶	04610130	15/09/2024	Select...	Pipistrellus pipist	55	1	3.21	15	46.0	50.6	73.9	47.9	3.0	90	fm-d(9)	51.37467 / 0.40119
▶	04610136	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	57	1	2.42	6	35.6	49.1	63.4	45.4	5.0	187	fm-d(4)	Golden Lion, Luddesdown Road, Luddesdown

BAT SURVEY FORM 2024		Surveyor name		SP
Site Name- visit no.	The Golden Lion 2	Date	15/09/2024	
Start Time	18:57	Finish Time	20:42	
Sunset Time	19:12	Detector number/colour	silver	
Position Relative to Structure	SE - pub car park	Weather Conditions pre sunset	40% cloud, wind light (1)	
Air Temperature Start	18°	Air Temperature End	17	
Brief summary (fill out at end of survey)	noctule heard consistently over a period of approx half an hour. not seen. no other bat activity seen or heard.			
*Shorthand: Common Pipistrelle = P45; Soprano Pipistrelle = P55 Brown/Grey long eared = LE; All Myotis = myo followed by single letter; Greater Horseshoe - GHS; Greater Noctule = Noc; Leislers Noctule = Leis; Serotine = se				
**Shorthand - 'NS' = not seen; 'SNH' = seen not heard; 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting.				
Time	Species*	Activity**	Notes including flight direction (if seen)	
19:28	noctule	ns		
19:44	noctule			

Play Delc	Recording	Recorded	Species	Sugg. Species 1st	Sugg Spec	Length	#	Call	Quality	Peak I	Max F	Min F	Call le	Distar	Call shape	Location
▶	11520005	15/09/2024	Select...	-	Nal	1	8.48	0	1.0	0.0	0.0	0.0	0.0	0		51.3745 / 0.40161
▶	11520007	15/09/2024	Select...	Vespertilio murin	60	1	9.26	18	93.9	22.7	23.4	19.7	17.0	413	cf-e(1c)	51.37451 / 0.40154
▶	11520008_1	15/09/2024	Select...	Nyctalus noctula	26	1	5.21	1	6.1	19.5	25.1	18.0	4.8	0	fm-d(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	11520008_2	15/09/2024	Select...	-	Nal	1	5.21	1	6.0	57.0	60.4	49.9	6.9	0	cf-n(1)	51.37451 / 0.40159
▶	11520009	15/09/2024	Select...	Pipistrellus pygrr	49	1	4.96	4	21.3	58.2	60.2	54.1	5.5	655	cf-n(4)	51.37452 / 0.40158
▶	11520010_1	15/09/2024	Select...	Pipistrellus pygrr	53	1	6.07	9	40.9	58.1	60.0	55.0	4.0	676	cf-e(7)	Luddesdown Road, Luddesdown, Gravesham,
▶	11520010_2	15/09/2024	Select...	Vespertilio murin	36	1	6.07	1	11.3	25.9	26.6	22.9	10.1	0	cf-e(1)	Luddesdown Road, Luddesdown, Gravesham,
▶	11520011	15/09/2024	Select...	-	Nal	1	5.32	2	12.2	58.1	60.0	54.0	6.1	2706	cf-n(2)	51.37452 / 0.40158
▶	11520012_3	15/09/2024	Select...	-	Nal	1	3.73	1	6.5	23.6	25.1	12.4	4.3	0	cf-e(1)	51.37452 / 0.40158
▶	11520012_2	15/09/2024	Select...	Nyctalus noctula	31	1	3.73	1	11.2	19.5	19.9	18.0	8.0	0	cf-e(1)	51.37452 / 0.40158
▶	11520012_1	15/09/2024	Select...	Pipistrellus pygrr	56	1	3.73	7	23.7	58.2	59.6	54.6	4.0	409	cf-e(6)	51.37452 / 0.40158
▶	11520013	15/09/2024	Select...	Nyctalus leisleri	43	1	2.51	3	49.6	24.6	25.4	23.8	6.9	618	cf-e(3)	51.3745 / 0.40158
▶	11520014	15/09/2024	Select...	Vespertilio murin	58	1	3.61	5	99.0	23.2	23.6	20.4	12.0	522	cf-e(5)	51.3745 / 0.40157
▶	11520016	15/09/2024	Select...	Vespertilio murin	64	1	2.65	4	66.3	23.8	24.2	23.1	8.1	554	cf-e(4)	51.37451 / 0.40157
▶	11520017	15/09/2024	Select...	Vespertilio murin	50	1	3.25	5	99.0	22.1	22.5	17.4	14.0	627	cf-e(4)	51.37451 / 0.40158
▶	11520020	15/09/2024	Select...	Vespertilio murin	66	1	4.84	15	25.1	23.5	27.3	22.4	14.0	260	cf-n(1)	51.37451 / 0.40158
▶	11520022	15/09/2024	Select...	Vespertilio murin	68	1	2.44	6	39.8	23.8	24.8	22.4	12.1	357	cf-e(6)	51.37452 / 0.40159
▶	11520027	15/09/2024	Select...	Nyctalus leisleri	62	1	4.20	8	66.9	25.6	26.9	24.3	6.0	370	cf-e(7)	51.37454 / 0.40156
▶	11520028	15/09/2024	Select...	Nyctalus leisleri	63	1	3.60	7	61.8	23.9	24.5	22.9	9.4	303	cf-e(7)	51.37454 / 0.40156
▶	11520031	15/09/2024	Select...	Nyctalus noctula	66	1	4.57	9	71.6	25.3	26.1	24.0	8.7	400	cf-e(8)	51.37453 / 0.40158
▶	11520032	15/09/2024	Select...	Nyctalus noctula	39	1	2.37	2	63.2	23.8	28.5	23.4	10.9	466	cf-e(1)	51.37453 / 0.40158
▶	11520035	15/09/2024	Select...	Vespertilio murin	47	1	3.41	3	86.3	23.8	24.9	23.0	8.5	399	cf-e(2)	51.37452 / 0.40158
▶	11520036	15/09/2024	Select...	Nyctalus leisleri	60	1	3.84	7	61.6	26.1	27.7	25.2	6.0	360	cf-e(4)	Luddesdown Road, Luddesdown, Gravesham,
▶	11520038	15/09/2024	Select...	Vespertilio murin	65	1	3.25	4	99.0	23.3	23.7	21.9	11.1	242	cf-e(4)	51.37452 / 0.40157
▶	11520039	15/09/2024	Select...	Nyctalus leisleri	61	1	2.89	4	86.7	24.8	25.2	24.2	7.5	374	cf-e(4)	51.37451 / 0.40158
▶	11520041	15/09/2024	Select...	Vespertilio murin	64	1	2.21	4	46.2	22.5	23.1	21.4	9.9	204	cf-e(4)	51.37453 / 0.40158
▶	11520042	15/09/2024	Select...	Vespertilio murin	43	1	2.23	2	21.3	26.3	26.6	25.3	6.7	858	cf-e(2)	51.37455 / 0.40155
▶	11520043	15/09/2024	Select...	Vespertilio murin	61	1	3.38	4	99.0	23.3	23.9	22.7	10.7	462	cf-e(4)	51.37453 / 0.40157
▶	11520044	15/09/2024	Select...	Vespertilio murin	43	1	2.76	2	62.6	24.9	25.7	24.4	6.9	441	cf-e(2)	51.37452 / 0.40156
▶	11520045	15/09/2024	Select...	Nyctalus noctula	64	1	3.22	8	99.0	26.5	39.4	25.8	10.0	165	fm-d(4)	51.37451 / 0.40157
▶	11520047	15/09/2024	Select...	Vespertilio murin	63	1	2.47	6	39.6	27.0	28.1	25.5	5.0	362	cf-n(5)	51.37451 / 0.40157
▶	11520049	15/09/2024	Select...	Nyctalus noctula	68	1	5.52	12	60.3	24.9	27.4	23.3	12.0	287	cf-e(9)	51.37451 / 0.40156
▶	11520050	15/09/2024	Select...	Nyctalus noctula	60	1	2.47	4	45.4	25.3	26.5	24.5	6.7	713	cf-n(3)	51.37451 / 0.40156
▶	11520052	15/09/2024	Select...	Nyctalus leisleri	64	1	4.31	15	42.6	25.0	26.0	23.9	6.0	287	cf-e(1c)	51.37451 / 0.40157
▶	11520055	15/09/2024	Select...	Nyctalus leisleri	66	1	4.22	7	73.5	25.3	25.9	24.6	8.6	441	cf-e(7)	51.3745 / 0.40159
▶	11520058	15/09/2024	Select...	Vespertilio murin	66	1	2.60	7	49.0	23.6	24.5	22.7	14.0	260	cf-e(6)	51.3745 / 0.40157
▶	11520061	15/09/2024	Select...	Nyctalus leisleri	66	1	3.60	7	72.6	24.7	25.0	23.9	8.5	370	cf-e(7)	51.3745 / 0.40156
▶	11520062	15/09/2024	Select...	Vespertilio murin	65	1	3.11	4	85.5	23.2	23.7	20.7	10.9	630	cf-e(4)	51.3745 / 0.40155
▶	11520064	15/09/2024	Select...	Nyctalus noctula	66	1	4.49	8	67.4	25.1	25.8	24.3	9.1	446	cf-e(7)	51.37451 / 0.40155
▶	11520065	15/09/2024	Select...	Vespertilio murin	61	1	2.22	4	24.9	23.3	24.0	21.8	11.9	265	cf-e(4)	51.37451 / 0.40155

Supplemental detector – located E of B3 (survey two)

Play Del	Recording	Recorded	Species	Sugg. Species 1st	Sugg. Species	Length	#	Call	Quality	Peak	Max F	Min F	Call	Le	Distar	Call shape	Location
▶	05190000	15/09/2024	Select...	Nyctalus noctula	64	1	4.57	13	44.1	23.3	24.1	21.5	18.0	357	—	cf-e(1C)	51.37436 / 0.40118
▶	05190001	15/09/2024	Select...	Nyctalus noctula	62	1	3.73	19	99.0	26.7	37.0	24.8	10.0	50	—	fm-d(9)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190002	15/09/2024	Select...	Nyctalus leisleri	60	1	4.48	9	99.0	25.1	28.0	24.1	8.3	260	—	cf-e(5)	51.37434 / 0.4012
▶	05190003	15/09/2024	Select...	Vespertilio murin	47	1	2.01	3	84.7	24.5	24.6	22.1	12.0	633	—	cf-e(3)	51.37435 / 0.4012
▶	05190004	15/09/2024	Select...	Vespertilio murin	65	1	2.01	4	44.9	23.3	23.7	22.2	12.1	608	—	cf-e(4)	51.37435 / 0.4012
▶	05190005	15/09/2024	Select...	Vespertilio murin	46	1	2.01	3	84.8	22.4	22.9	18.4	15.1	619	—	cf-e(3)	51.37436 / 0.4012
▶	05190006	15/09/2024	Select...	-	Nal	1	2.01	0	1.0	0.0	0.0	0.0	0.0	0	—		Golden Lion, Luddesdown Road, Luddesdown
▶	05190007_1	15/09/2024	Select...	Nyctalus noctula	63	1	3.86	10	41.8	22.5	23.6	21.0	15.0	290	—	cf-e(8)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190007_2	15/09/2024	Select...	Myotis myotis	32	1	3.86	1	14.1	30.0	33.0	27.4	4.3	0	—	fm-l(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190008	15/09/2024	Select...	Nyctalus noctula	63	1	5.31	20	25.4	24.6	28.0	22.5	14.0	260	—	cf-n(15)	51.37435 / 0.40122
▶	05190009	15/09/2024	Select...	Vespertilio murin	64	1	2.01	4	24.5	24.1	25.0	23.1	9.3	458	—	cf-e(4)	51.37434 / 0.40122
▶	05190010	15/09/2024	Select...	Nyctalus noctula	67	1	4.01	6	65.9	24.8	25.5	23.9	9.3	571	—	cf-e(6)	51.37434 / 0.40123
▶	05190011	15/09/2024	Select...	Vespertilio murin	62	1	2.01	4	85.2	25.4	26.1	24.5	8.8	452	—	cf-e(3)	51.37435 / 0.40122
▶	05190012	15/09/2024	Select...	Eptesicus nilsson	30	1	2.36	2	55.2	27.9	29.8	26.8	4.8	735	—	cf-n(1)	51.37435 / 0.40122
▶	05190013	15/09/2024	Select...	Nyctalus leisleri	63	1	2.00	5	90.5	25.1	26.9	23.9	9.8	325	—	cf-e(4)	51.37436 / 0.40121
▶	05190014_1	15/09/2024	Select...	Vespertilio murin	42	1	2.01	3	21.1	26.3	27.0	25.3	6.8	439	—	cf-e(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190014_2	15/09/2024	Select...	-	Nal	1	2.01	1	7.5	89.6	91.5	84.4	3.7	0	—	fm-a(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190014_3	15/09/2024	Select...	-	Nal	1	2.01	1	7.4	93.8	98.3	90.8	3.2	0	—	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190015	15/09/2024	Select...	Nyctalus noctula	64	1	4.19	10	81.8	26.8	27.5	25.6	4.0	397	—	cf-n(8)	51.37434 / 0.40121
▶	05190016	15/09/2024	Select...	Nyctalus leisleri	65	1	2.90	10	57.9	25.5	26.0	24.5	5.0	220	—	cf-e(7)	51.37434 / 0.40121
▶	05190017	15/09/2024	Select...	Nyctalus leisleri	58	1	4.67	10	33.6	26.6	28.9	25.3	6.0	390	—	cf-n(5)	51.37434 / 0.40124
▶	05190018	15/09/2024	Select...	Nyctalus leisleri	61	1	3.04	8	56.0	25.2	26.4	24.2	6.0	266	—	cf-e(5)	51.37434 / 0.40125
▶	05190019	15/09/2024	Select...	Vespertilio murin	64	1	2.39	5	25.5	24.3	24.6	23.3	9.2	363	—	cf-e(5)	51.37435 / 0.40125
▶	05190020	15/09/2024	Select...	Nyctalus noctula	69	1	2.56	6	52.5	24.9	27.4	23.8	8.0	352	—	cf-e(4)	51.37435 / 0.40123
▶	05190021	15/09/2024	Select...	Nyctalus leisleri	63	1	2.61	4	64.8	26.3	26.8	25.4	7.2	618	—	cf-e(3)	51.37434 / 0.40124
▶	05190022	15/09/2024	Select...	Vespertilio murin	47	1	3.49	3	85.1	24.3	24.9	23.4	8.9	748	—	cf-e(3)	51.37434 / 0.40126
▶	05190023	15/09/2024	Select...	Eptesicus nilsson	28	1	2.00	1	9.4	30.0	30.4	27.8	8.0	0	—	cf-e(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190024	15/09/2024	Select...	Vespertilio murin	43	1	2.00	3	21.6	23.4	23.8	22.6	11.0	198	—	cf-e(3)	51.37434 / 0.40125
▶	05190025	15/09/2024	Select...	Nyctalus leisleri	63	1	2.79	7	83.7	24.4	24.9	23.5	8.6	286	—	cf-e(6)	51.37434 / 0.40121
▶	05190026	15/09/2024	Select...	Nyctalus leisleri	64	1	2.96	7	71.6	24.4	24.9	23.6	10.4	430	—	cf-e(7)	51.37434 / 0.4012
▶	05190027	15/09/2024	Select...	Nyctalus noctula	57	1	2.00	5	41.4	27.1	28.0	26.3	5.0	440	—	cf-n(4)	51.37434 / 0.40121
▶	05190028	15/09/2024	Select...	Vespertilio murin	66	1	2.16	5	58.0	23.9	24.6	23.0	8.4	321	—	cf-e(4)	51.37434 / 0.40126
▶	05190029	15/09/2024	Select...	Vespertilio murin	37	1	2.00	2	61.0	22.3	22.7	20.4	14.9	377	—	cf-e(2)	51.37435 / 0.40126
▶	05190030_2	15/09/2024	Select...	-	Nal	1	3.32	2	13.4	91.7	92.4	86.3	6.1	2185	—	fm-l(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190030_1	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	70	1	3.32	5	25.1	44.5	44.6	44.0	7.0	435	—	cf-e(5)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190031_1	15/09/2024	Select...	Pipistrellus pipist	51	1	2.01	5	24.7	45.6	47.7	44.7	5.8	221	—	cf-n(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190031_2	15/09/2024	Select...	-	Nal	1	2.01	1	7.3	92.3	95.6	91.1	8.5	0	—	cf-n(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190032_1	15/09/2024	Select...	Pipistrellus pipist	68	1	4.17	13	24.6	45.8	48.9	44.9	5.0	303	—	fm-d(5)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190032_2	15/09/2024	Select...	Pipistrellus pipist	27	1	4.17	2	13.3	93.2	95.3	91.3	6.1	196	—	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190032_3	15/09/2024	Select...	-	Nal	1	4.17	1	7.3	87.8	88.9	86.6	5.9	0	—	cf-e(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190033	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	76	1	5.58	14	99.0	45.1	46.2	44.4	6.0	220	—	cf-e(13)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190034	15/09/2024	◉ Pipistrellus p	Pipistrellus pipist	64	1	2.09	6	38.1	47.2	50.7	46.0	7.0	147	—	cf-e(3)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190035_1	15/09/2024	Select...	Pipistrellus pipist	42	1	2.00	2	19.7	45.9	52.5	44.6	3.7	87	—	fm-l(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190035_2	15/09/2024	Select...	-	Nal	1	2.00	1	7.4	89.3	94.5	87.8	7.5	0	—	cf-n(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	05190036	15/09/2024	Select...	Pipistrellus pipist	64	1	2.43	5	24.4	44.6	52.6	44.0	4.0	287	—	fm-d(3)	51.37434 / 0.40122

Supplemental detector – located S of B1 (survey two)

Play Delr	Recording	Recorded	Species	Sugg. Species 1st	Sugg Specie	Length	# Call	Quality	Peak F	Max F	Min F	Call F	Le	Distar	Call shape	Location
▶	16800000	15/09/2024	Select...	Vespertilio murin	57	1	10.3	12	87.2	22.9	23.7	20.0	18.0	512	cf-e(10)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800001	15/09/2024	Select...	Nyctalus noctula	57	1	8.37	30	71.5	25.5	28.3	24.4	10.0	350	cf-e(15)	51.37447 / 0.40134
▶	16800003	15/09/2024	Select...	Vespertilio murin	69	1	2.29	5	91.1	23.8	24.3	22.2	11.6	504	cf-e(5)	51.37447 / 0.40134
▶	16800007	15/09/2024	Select...	Nyctalus noctula	60	1	4.26	10	50.3	22.4	22.9	20.7	15.0	290	cf-e(9)	51.37448 / 0.40135
▶	16800008	15/09/2024	Select...	Nyctalus noctula	63	1	6.74	22	29.5	23.9	27.0	22.3	14.0	260	cf-n(20)	51.37449 / 0.40133
▶	16800009	15/09/2024	Select...	Vespertilio murin	67	1	2.38	6	26.4	24.1	24.7	22.8	9.8	359	cf-e(6)	51.37448 / 0.40132
▶	16800010	15/09/2024	Select...	Nyctalus leisleri	46	1	3.07	3	85.5	25.1	25.4	24.5	8.4	989	cf-e(3)	51.37448 / 0.40131
▶	16800012	15/09/2024	Select...	Vespertilio murin	64	1	3.09	4	86.5	23.2	23.6	21.8	9.7	439	cf-e(4)	51.37448 / 0.40132
▶	16800013	15/09/2024	Select...	Nyctalus leisleri	63	1	3.53	6	26.0	25.6	26.8	24.6	5.0	460	cf-e(4)	51.37449 / 0.40131
▶	16800015	15/09/2024	Select...	Nyctalus leisleri	63	1	4.44	9	70.4	25.3	26.0	24.3	8.1	460	cf-e(8)	51.37449 / 0.40131
▶	16800018	15/09/2024	Select...	Nyctalus leisleri	63	1	2.47	4	65.5	25.1	29.0	24.4	8.8	276	fm-d(2)	51.37448 / 0.40132
▶	16800021	15/09/2024	Select...	Nyctalus leisleri	63	1	3.55	12	86.1	25.9	26.3	24.6	5.0	220	cf-e(9)	51.37448 / 0.40131
▶	16800023	15/09/2024	Select...	Nyctalus leisleri	62	1	4.31	7	84.1	25.3	29.4	24.4	8.7	435	cf-e(4)	51.37448 / 0.40129
▶	16800024	15/09/2024	Select...	Nyctalus leisleri	61	1	2.79	8	86.7	25.6	27.2	24.8	5.0	312	cf-e(5)	51.37449 / 0.40129
▶	16800030	15/09/2024	Select...	Nyctalus leisleri	61	1	2.88	4	65.7	25.1	25.9	24.6	6.0	369	cf-e(4)	51.37449 / 0.40133
▶	16800031	15/09/2024	Select...	Vespertilio murin	65	1	3.17	5	59.0	23.3	23.6	22.4	11.6	347	cf-e(5)	51.37451 / 0.40131
▶	16800032	15/09/2024	Select...	Nyctalus noctula	68	1	3.13	11	40.8	26.9	36.1	25.5	9.0	128	fm-d(5)	51.37452 / 0.40132
▶	16800034	15/09/2024	Select...	Vespertilio murin	58	1	2.48	5	42.0	26.8	28.1	26.0	5.0	388	cf-n(3)	51.37452 / 0.40132
▶	16800036	15/09/2024	Select...	Nyctalus leisleri	63	1	2.33	7	84.0	24.6	25.1	23.7	7.8	286	cf-e(6)	51.37452 / 0.40131
▶	16800037	15/09/2024	Select...	Nyctalus leisleri	60	1	2.67	11	47.7	24.7	26.4	23.2	13.0	180	cf-e(8)	51.37452 / 0.4013
▶	16800038	15/09/2024	Select...	Nyctalus noctula	66	1	3.86	10	25.3	23.7	26.0	22.5	10.0	275	cf-n(5)	51.37451 / 0.40131
▶	16800039	15/09/2024	Select...	Nyctalus leisleri	60	1	2.21	5	99.0	24.6	25.1	23.2	9.0	358	cf-e(5)	51.37451 / 0.40131
▶	16800041	15/09/2024	Select...	Nyctalus leisleri	60	1	3.05	4	66.1	23.3	23.9	22.9	8.4	422	cf-e(4)	51.3745 / 0.40132
▶	16800045	15/09/2024	Select...	Vespertilio murin	63	1	2.81	6	80.5	24.0	24.7	23.0	9.6	253	cf-e(5)	51.37449 / 0.40132
▶	16800046	15/09/2024	Select...	Vespertilio murin	66	1	3.01	5	26.0	24.4	25.2	23.6	9.1	536	cf-e(5)	51.37449 / 0.40132
▶	16800047	15/09/2024	Select...	Nyctalus leisleri	63	1	3.37	6	26.1	25.1	25.8	24.2	9.5	417	cf-e(4)	51.37449 / 0.40132
▶	16800049_3	15/09/2024	Select...	-	Nal	1	2.22	1	8.1	86.3	92.6	84.4	3.7	0	fm-d(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800049_1	15/09/2024	○ Pipistrellus p	Pipistrellus pipist	72	1	2.22	6	25.2	45.9	49.5	44.9	5.0	299	fm-d(4)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800049_2	15/09/2024	Select...	-	Nal	1	2.22	1	8.2	79.1	85.9	78.8	2.1	0	fm-l(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800050_1	15/09/2024	○ Pipistrellus p	Pipistrellus pipist	56	1	2.42	7	25.2	46.0	49.7	44.8	7.0	350	cf-e(2)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800050_2	15/09/2024	Select...	-	Nal	1	2.42	2	14.1	88.9	93.6	85.1	6.4	727	fm-a(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800054_1	15/09/2024	○ Pipistrellus p	Pipistrellus pipist	69	1	3.38	9	25.3	44.9	45.7	44.1	6.0	330	cf-e(7)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800054_2	15/09/2024	Select...	-	Nal	1	3.38	3	15.1	88.0	90.4	81.6	5.7	976	fm-a(1)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800055	15/09/2024	○ Pipistrellus p	Pipistrellus pipist	67	1	2.62	7	25.7	47.6	53.5	46.3	6.0	146	fm-d(4)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800057	15/09/2024	○ Pipistrellus p	Pipistrellus pipist	75	1	2.70	5	25.4	47.6	53.5	46.0	6.0	240	fm-d(4)	Golden Lion, Luddesdown Road, Luddesdown
▶	16800060	15/09/2024	○ Pipistrellus p	Pipistrellus pipist	51	1	2.41	9	34.1	47.9	57.0	46.5	4.0	180	fm-l(7)	Golden Lion, Luddesdown Road, Luddesdown

BAT BOXES AND OTHER SUITABLE MITIGATION AND ENHANCEMENTS



Small Red
215 x 215 mm

IR SCREENSHOTS (TAKEN AT THE DARKEST POINT OF THE SURVEY)

