



A bat assessment of the site of Colaiste Chilliain, Clondalkin, South Dublin 22.

Grid ref O 06366 31532

For The Dept of Education

C/o



McCarthy O'Hora architects

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By Donna Mullen M.P.P.M D.E.N.V.S. P

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Date July 15, 2023

www.wildlifesurveys.net



Summary of report

Results

Most bat activity was of Leisler's bats, with 75 Leisler's bat passes recorded across the middle of the site, in the area where treelines will be removed, and across the playing field. Common and soprano pipistrelles were also found on site. There are no signs of bats entering, leaving, or swarming at buildings or trees, and no derogation licence is required.

There will be a loss in both horizontal feeding areas (through building) and vertical feeding areas, with 109 trees planned for removal. In addition to providing shelter, the tall poplar trees screen the considerable light pollution from the R134 road. These trees are due for removal. None of the trees have high bat roosting potential. Replanting of trees and hedgerows must take place to mitigate the loss of the trees, and to shield light pollution.

Bat species found feeding and commuting on the site.

Common pipistrelle -Pipistrellus pipistrellus

Leisler's bat – Nyctalus Leisleri

Soprano pipistrelle – Pipistrellus pygmaeus

Recommendations and mitigation

(1) 4 2F Schwegler bat boxes must be placed on site. These must be placed on trees, buildings, or poles, at least 3 meters high, with a clear drop below them – as bats must drop to fly. They must be placed in a dark area. They can be purchased from - <https://www.veldshop.nl/en/bat-box-2f.html>

(2) If bats are discovered at any stage of the building work, building work must cease and myself and the wildlife ranger must be contacted.

(3) Trees and hedgerows must be retained or replanted. The 109 trees for removal must be replanted with native species, or alternatively a small pond 5 meters x 10 meters must be installed, to compensate for the loss in feeding for bats. In addition, semi- mature trees must be planted to the north of the site to screen light pollution from the road.

Planting throughout the school with native species will enhance the area for bats. Plant species from the All-Ireland Pollinator Plan must be included. All-Ireland Pollinator Plan species list - <http://www.biodiversityireland.ie/wordpress/wp-content/uploads/Pollinator-friendlyplanting-code-temporary-draft.pdf> Consideration should be given to providing a range of vegetation heights, by the use of ivy and climbers on walls.



The grassy areas must not be cut when the school is not in use (e.g., the summertime) Following a no mow regime from May until August will allow the insects to develop over the summertime)

(1) There is considerable light pollution on the site. Lighting must be switched off when the building is not in use, with sensor timers used on security lighting.

Rows of 5-6 conifers must be planted behind floodlights, to prevent light spillage.

Bats are sensitive to lighting. A dark sky area must be designated within the development.

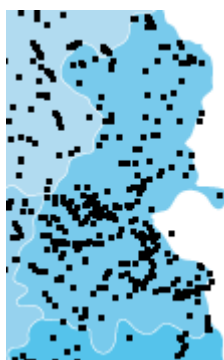
Other lighting must be in accordance with

[Bats and Lighting](#) – Guidance Notes for Planners, Engineers, Architects, and Developers (Bat Conservation Ireland, 2010).

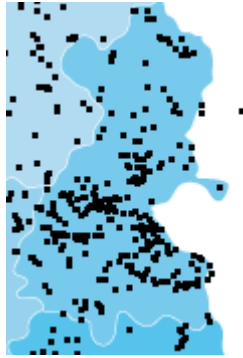
- [Bats and Lighting in the UK](#) – Bats and the Built Environment Series (Institute of Lighting Professionals, September 2018).
- [Guidance Notes](#) for the Reduction of Obtrusive Light GN01 (Institute of Lighting Professionals, 2011).

Desktop Survey of the existing environment

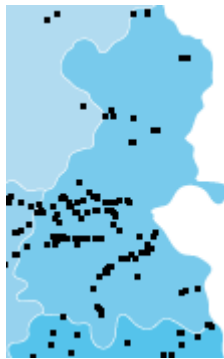
Thanks to Bat Conservation Ireland for their data.



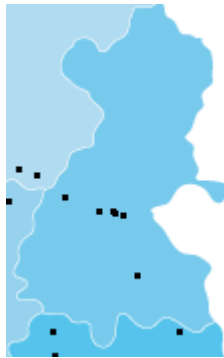
Soprano pipistrelle distribution in Dublin



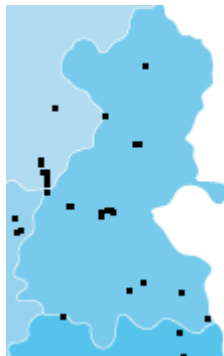
Leisler's bat distribution in Dublin



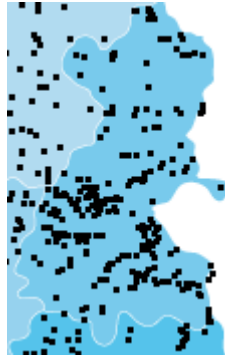
Daubenton's bat distribution in Dublin



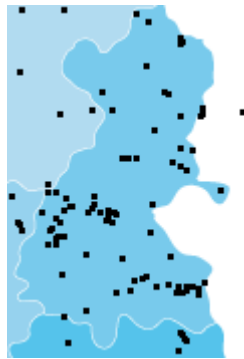
Whiskered bat distribution in Dublin



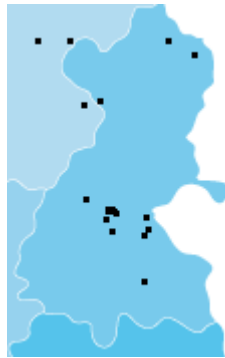
Natterers bat distribution in Dublin



Common pipistrelle distribution in Dublin



Brown long eared bat distribution in Dublin



Desktop data from within 1km of the site.

BCIreland data: search results 18 Aug 2023					
Search parameters: Roosts Transects Ad-hoc observation sites with observations of all species within 1000m of O0636631532					
Roosts					
Name	Grid reference	Grid ref easting	Grid ref northing	Addresses	Species observed
Transects					
Name	Grid reference start	Grid ref easting	Grid ref northing	Species observed	



		ng start	ng start		
Ad-hoc observations					
Survey	Grid reference	Grid ref east ing	Grid ref north ing	Date	Species observed
Bat Survey - Scott Cawley	O062317	3062 00	23170 0	9/5/201 1	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Bat Surveys - Tina Aughney	O0649131 443	3064 91	23144 3	##### ##	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Pipistrellus pygmaeus
BATLAS 2010	O065312	3065 00	23120 0	##### ##	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis daubentonii
BATLAS 2010	O0731	3070 00	23100 0	##### ##	Pipistrellus pygmaeus
BATLAS 2020	O0700730 999	3070 07	23099 9	9/2/201 6	
BATLAS 2020	O0673432 176	3067 34	23217 6	9/2/201 6	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
EIS and Road Surveys - Conor Kelleher	O0700032 000	3070 00	23200 0	##### ##	Myotis daubentonii, Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
EIS and Road Surveys - Conor Kelleher	O0600032 000	3060 00	23200 0	7/8/200 7	Nyctalus leisleri, Myotis daubentonii, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
EIS and Road Surveys - Conor Kelleher	O0700032 000	3070 00	23200 0	7/8/200 7	Nyctalus leisleri, Myotis daubentonii, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Faith Wilson	O067314	3067 00	23140 0	##### ##	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)

For desktop data within 10km of the site, see Appendix VI



All data from this report will be logged with Bat Conservation Ireland

Habitat Classification (Fossitt 2000)

BL3 (buildings) WL2 (treelines) GAI (Grassland)

Date – Aug 15, 2023

Constraints – Survey constraints

(2) Mobility of bats – Bat species are mobile and can move from roost to roost, depending on roost availability, feeding availability and weather conditions. They may move to roosts which have not been identified in this report in order to hibernate or create mating or feeding perches. A bat survey is a snapshot of bat activity over the survey time.

(3) Identification of bats- It can be difficult to differentiate myotis species. For this reason, the sound files are included within the report. Brown long eared bats are very quiet, and their presence can be overlooked in bat surveys as they may not register on bat detectors.

Temperature and weather conditions – 9C.

Complexity of lands and ability to cover ground during surveys All areas were accessible.

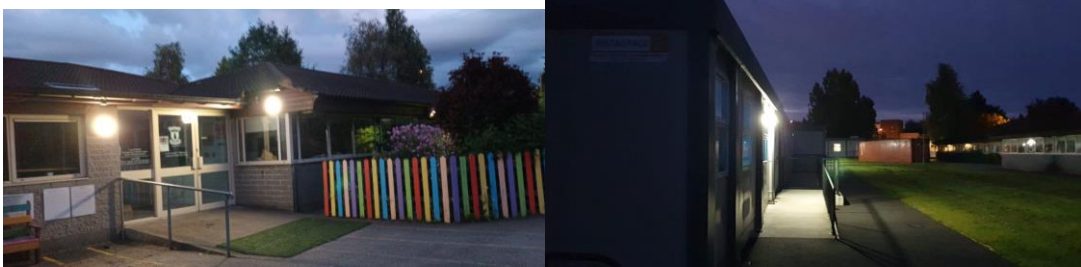
Sunrise/sunset 6.06 20.51

Description of project – See Appendix 1 and II for site plans and list of trees for felling.

Light pollution

There were high levels of light pollution on site with light levels of 249 lux at 05.23.

There was also high levels of light pollution off site, which was screened by the trees at the boundary.



Light pollution with considerable light spillage

Methodology

Bat Survey - Equipment

Exide Lamps

Petzl Tikka Head torch



Two Anabat walkabout detectors and kaleidoscope sound analysis software with GPS

Two mini song meters with sound analysis

One Echo meter touch

One Fiberscope

One Thermal imager

The song meter mini detectors were left in place overnight in the hedgerows/treelines to the north and middle of the site (treelines for removal)

Bat assessment

The bat assessment commenced at 21.00 with three surveyors.

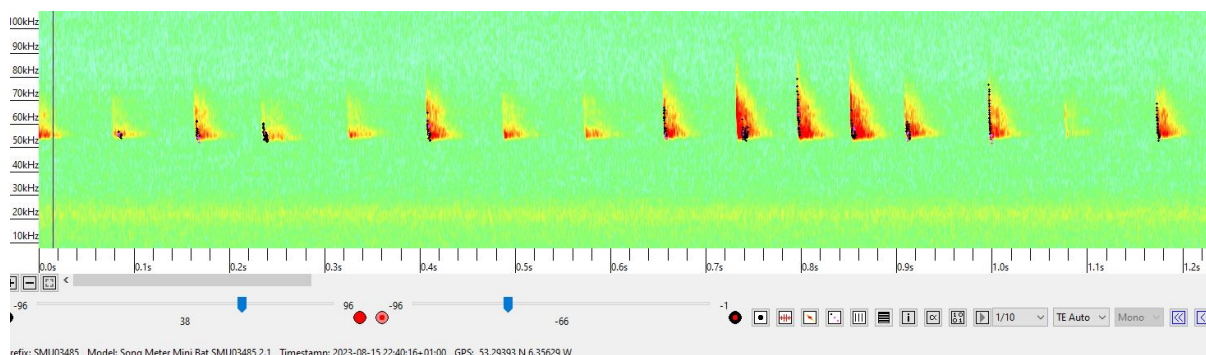
All internal and external areas and attics which could be safely accessed within the buildings, were checked for signs of bat usage – droppings, staining, etc. No signs of bats were found. Two song meter minis were placed along the trees to the north of the site to remotely record bats overnight.





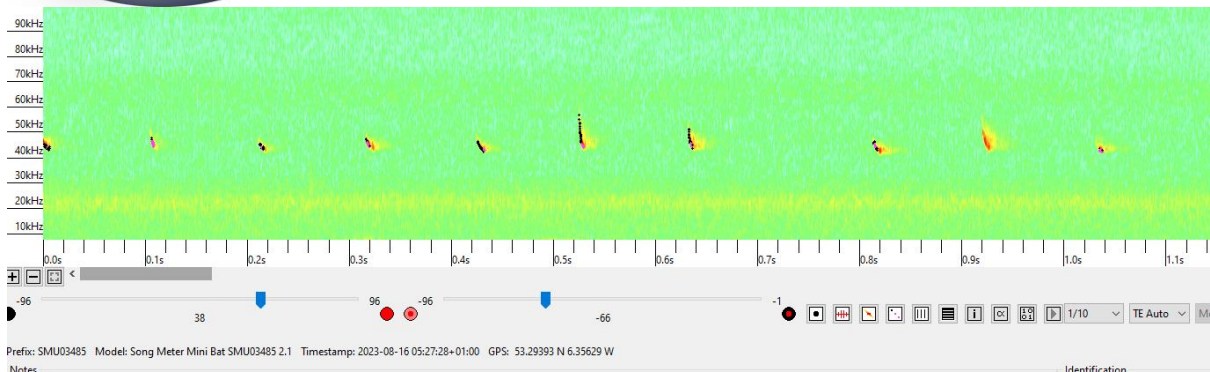
Attics checked for bats.

At 21.15 a Leisler's bat was seen flying over the school, and then moved east and fed in this area until 21.25. At 21.46 a soprano pipistrelle was seen to the southwest of the site. It fed in this area until 21.52. A common pipistrelle was recorded at 22.00 along the boundary of the Old Nangor road, then moved to the middle of the site, along the treeline. A soprano pipistrelle was seen to the north of the site at 22.17, feeding along the treeline.



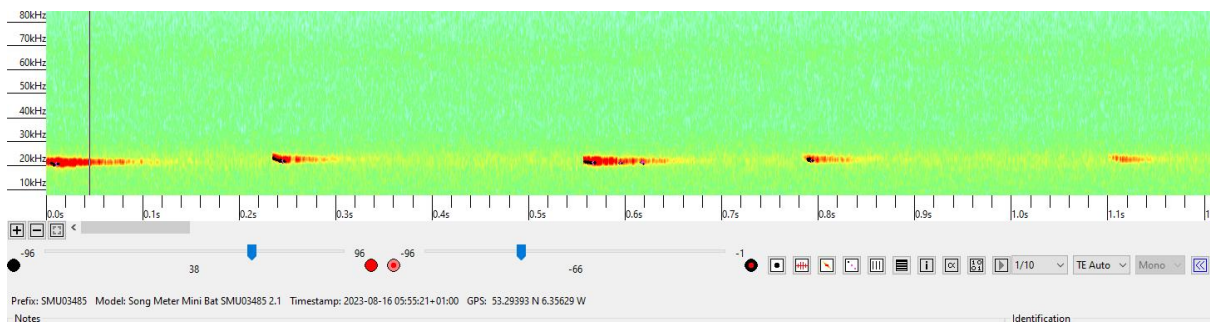
Soprano pipistrelle 22.40 along treeline to the north

At 5.27 a Leislers bay was recorded flying over the playing field, and a common pipistrelle was seen flying along the treeline to the north of the site at 5.27.



Common pipistrelle 5.27

A soprano pipistrelle was seen in this area at 5.33. The common pipistrelle fed and circled around the gate area in the hedgerow until 5.39. The Leisler's bat continued to feed over the football pitch until 5.55.



Leisler's bat 5.51

Map of main bat activity



Red triangle – Leisler’s bat

Blue triangle – Common pipistrelle

Green triangle – Soprano pipistrelle

Results

Most bat activity was of Leisler’s bats, with 75 Leisler’s bat passes recorded across the middle of the site, in the area where treelines will be removed, and across the playing field. Common and soprano pipistrelles were also found on site. There are no signs of bats entering, leaving, or swarming at buildings or trees, and no derogation licence is required.

There will be a loss in both horizontal feeding areas (through building) and vertical feeding areas, with 109 trees planned for removal. In addition to providing shelter, the tall poplar trees screen the considerable light pollution from the R134 road. These trees are due for removal. None of the trees have high bat roosting potential. Replanting of trees and hedgerows must take place to mitigate the loss of the trees, and to shield light pollution.



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These areas would be suitable areas for planting with species from the All-Ireland Pollinator Plan.

Walls should have climbing plants, ivy, etc.

The grassy areas must not be cut when the school is not in use (e.g., the summertime) Following a no mow regime from May until August will allow the insects to develop over the summertime)



Allow grassy areas to grow in the summer months.

- (4)** There is considerable light pollution on the site. Lighting must be switched off when the building is not in use, with sensor timers used on security lighting. Rows of 5-6 conifers must be planted behind floodlights, to prevent light spillage.



Plant a row of trees behind the lights to prevent back spill of light pollution.

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Other lighting must be in accordance with

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Bat Biology

Female bats gather in groups known as maternity roosts in summer to have their young. They generally have one baby each year, so are slow to reproduce, and disturbance of a maternity roost can be catastrophic.

In winter bats move to old stonework, trees, and caves to hibernate. They are especially vulnerable here as they are slow to awaken, and if tree felling is carried out, they can easily be killed.



Legislation

Bats are protected under the 1996 Wildlife Act, the 2000 Wildlife (Amendment) Act, Stat Ist 94 of 1997, Stat Ist 378 of 2005, The Habitats Directive, The Bonn and Bern Convention, and the Euro bats agreement.

The European Community (Natural Habitats) Regulations S.I. No 94 of 1997 states:

23(1) The minister shall take the requisite measures to establish a system of strict protection for the fauna consisting of the animal species set out in Part 1 of the First Schedule prohibiting –

- a) All forms of deliberate capture or killing of specimens of those species in the wild.
 1. The deterioration or destruction of breeding sites or resting places of those species.

The EU Habitats Directive

Article 12(1) of the 'Council Directive 92/43/EEC on the conservation of natural habitats and wild fauna and flora (Habitats Directive) states:

“Member States shall take the requisite measures to establish a system of strict protection for the animal species listed in Annex IV(a) and their natural range, prohibiting:

- a) all forms of deliberate capture or killing of specimens of these species in the wild.
- b) deliberate disturbance of these species, particularly during the period of breeding, rearing, hibernation, and migration.
- c) deliberate destruction or taking of eggs from the wild.
- d. deterioration or destruction of breeding sites or resting places.”

The EU Habitats Directive (92/43/EEC) lists all Irish bat species in Annex IV and one Irish species, the lesser horseshoe bat (*Rhinolophus hipposideros*), in Annex II. Annex II includes animal and plant species of community interest whose conservation requires the designation of Special Areas of Conservation (SACs) because they are endangered, rare, vulnerable, or endemic. Annex IV includes various species that require strict protection. Article 11 of the Habitats Directive requires member states to monitor all species listed in the Habitats Directive and Article 17 requires States to report to the EU on the findings of monitoring schemes.

The Bern and Bonn Conventions

Ireland is also a signatory to a number of conservation agreements pertaining to bats such as the Bern and Bonn Conventions. The European Bats Agreement (EUROBATS) is an agreement under the Bonn Convention. Ireland and the UK are two of the 31 signatories. The Agreement has an Action Plan with priorities for



implementation. Devising strategies for monitoring of populations of selected bat species in Europe is among the resolutions of EUROBATS.

1.3.1 The Berne Convention

Article 6 of the "Convention on the Conservation of European Wildlife and Natural Habitats" (Berne Convention) reads:

"Each Contracting Party shall take appropriate and necessary legislative and administrative measures to ensure the special protection of the wild fauna species specified in Appendix II. The following will in particular be prohibited for these species:

- a) all forms of deliberate capture and keeping and deliberate killing.
- b) the deliberate damage to or destruction of breeding or resting sites.
- c) the deliberate disturbance of wild fauna, particularly during the period of breeding, rearing and hibernation, insofar as disturbance would be significant in relation to the objectives of this Convention; ...

Appendix II lists strictly protected fauna species and this list includes "Microchiroptera, all species except *Pipistrellus pipistrelles*".

The EUROBATS Agreement

The 'Agreement on the Conservation of Populations of European Bats' (EUROBATS) was negotiated under the 'Convention for the Conservation of Migratory Wild Species' (Bonn Convention) and came into force in January 1994. The legal protection of bats and their habitats are given in Article III as fundamental obligations:

- "1. Each Party shall prohibit the deliberate capture, keeping or killing of bats except under permit from its competent authority.
2. Each Party shall identify those sites within its own area of jurisdiction which are important for the conservation status, including for the shelter and protection, of bats. It shall, taking into account as necessary economic and social considerations, protect such sites from damage or disturbance. In addition, each Party shall endeavour to identify and protect important feeding areas for bats from damage or disturbance."

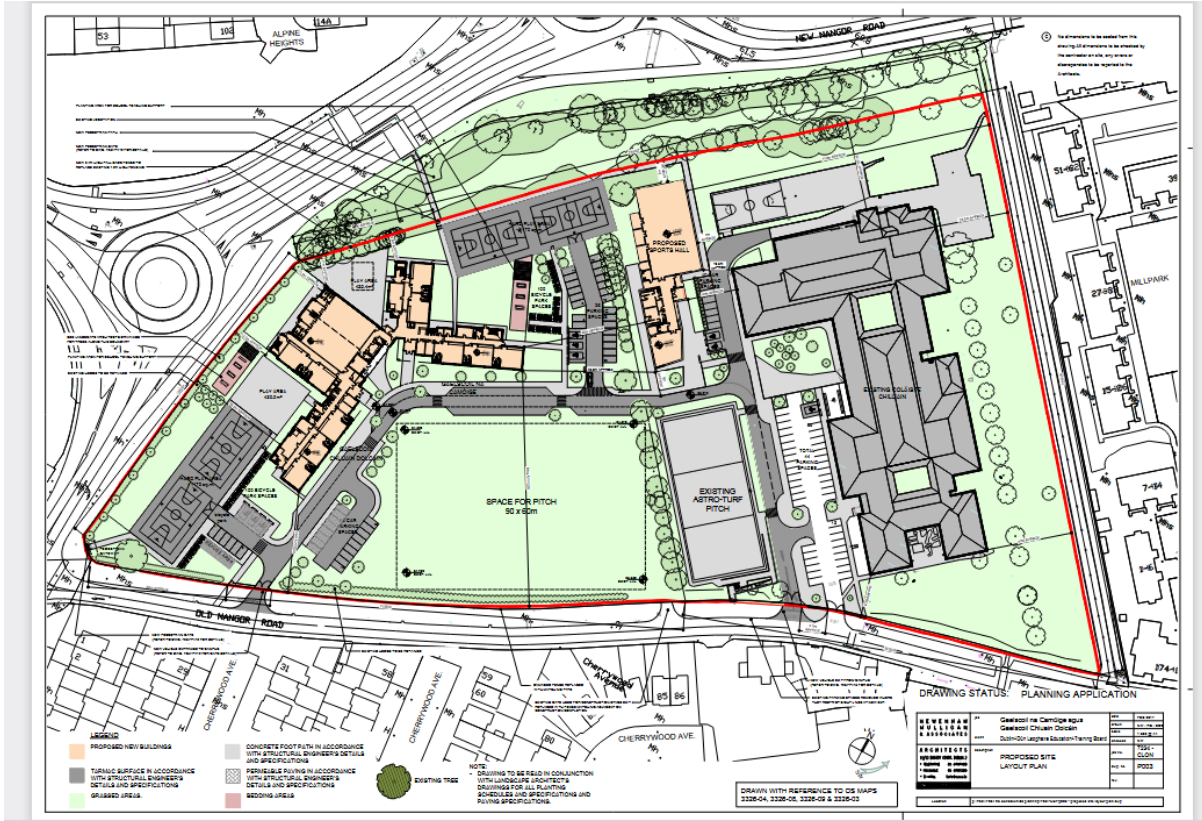
The Agreement covers all European bat species.

Contact Details: I can be contacted at 087 7454233. My email is donnamullen@wildlifesurveys.net and web site is www.wildlifesurveys.net



Appendix 1

Site Plan





Existing Site Plan





Appendix II

Tree Plan (showing trees for removal)



Appendix III

Song meter mini with Kaleidoscope sound analysis – handheld.

FILE	FOLDER	IN FILE	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MANUAL ID
23		SMU03485_20230815_230952.wav	SMU03485_20230815_230952_000.wav		NYCLEI	66	58	0.879000	Noise
24		SMU03485_20230815_231531.wav	SMU03485_20230815_231531_000.wav		NYCLEI	61	57	0.934000	Noise
25		SMU03485_20230816_055521.wav	SMU03485_20230816_055521_000.wav		NYCLEI	65	57	0.877000	NYCLEI
26		SMU03485_20230815_230439.wav	SMU03485_20230815_230439_000.wav		NYCLEI	53	52	0.981000	Noise
27		SMU03485_20230816_055505.wav	SMU03485_20230816_055505_000.wav		NYCLEI	56	52	0.929000	NYCLEI
28		SMU03485_20230816_041326.wav	SMU03485_20230816_041326_000.wav		NYCLEI	51	49	0.961000	NYCLEI
29		SMU03485_20230815_211407.wav	SMU03485_20230815_211407_000.wav		NYCLEI	53	49	0.925000	PIPPIP PIPPP NYCLEI
30		SMU03485_20230816_055430.wav	SMU03485_20230816_055430_000.wav		NYCLEI	55	49	0.891000	NYCLEI
31		SMU03485_20230815_230747.wav	SMU03485_20230815_230747_000.wav		NYCLEI	48	47	0.979000	Noise
32		SMU03485_20230815_231253.wav	SMU03485_20230815_231253_000.wav		NYCLEI	48	45	0.938000	Noise
33		SMU03485_20230815_231518.wav	SMU03485_20230815_231518_000.wav		NYCLEI	48	45	0.938000	Noise
34		SMU03485_20230815_231113.wav	SMU03485_20230815_231113_000.wav		NYCLEI	45	43	0.956000	Noise
35		SMU03485_20230815_212903.wav	SMU03485_20230815_212903_000.wav		NYCLEI	44	41	0.932000	NYCLEI
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39		SMU03485_20230816_055446.wav	SMU03485_20230816_055446_000.wav		NYCLEI	44	38	0.864000	NYCLEI
40		SMU03485_20230815_230730.wav	SMU03485_20230815_230730_000.wav		NYCLEI	37	37	1.000000	Noise
41		SMU03485_20230815_230740.wav	SMU03485_20230815_230740_000.wav		NYCLEI	42	37	0.881000	Noise
42		SMU03485_20230815_231213.wav	SMU03485_20230815_231213_000.wav		NYCLEI	35	35	1.000000	Noise
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44		SMU03485_20230815_230420.wav	SMU03485_20230815_230420_000.wav		NYCLEI	36	34	0.944000	Noise
45		SMU03485_20230816_041356.wav	SMU03485_20230816_041356_000.wav		NYCLEI	33	33	1.000000	Noise
46		SMU03485_20230816_052643.wav	SMU03485_20230816_052643_000.wav		NYCLEI	45	33	0.733000	PIP
47		CMU03485_20230816_011720.wav	CMU03485_20230816_011720_000.wav		NYCLEI	23	23	1.000000	



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206	SMU03485_20230816_060258.wav	SMU03485_20230816_060258.wav			Noise				
207	SMU03485_20230816_060329.wav	SMU03485_20230816_060329.wav			Noise				
208	SMU03485_20230816_052728.wav	SMU03485_20230816_052728.wav			PIPPIP	52	50	0.962000	
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210	SMU03485_20230815_214242.wav	SMU03485_20230815_214242.wav			PIPPIP	42	42	1.000000	
211	SMU03485_20230815_232101.wav	SMU03485_20230815_232101.wav			PIPPIP	40	40	1.000000	
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214	SMU03485_20230815_232352.wav	SMU03485_20230815_232352.wav			PIPPIP	24	24	1.000000	
215	SMU03485_20230816_052112.wav	SMU03485_20230816_052112.wav			PIPPIP	25	23	0.920000	
216	SMU03485_20230816_052757.wav	SMU03485_20230816_052757.wav			PIPPIP	20	19	0.950000	
217	SMU03485_20230815_225201.wav	SMU03485_20230815_225201.wav			PIPPIP	16	16	1.000000	
218	SMU03485_20230815_234138.wav	SMU03485_20230815_234138.wav			PIPPIP	16	15	0.938000	
219	SMU03485_20230815_231406.wav	SMU03485_20230815_231406.wav			PIPPIP	9	9	1.000000	
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221	SMU03485_20230815_212331.wav	SMU03485_20230815_212331.wav			PIPPIP	13	7	0.538000	
222	SMU03485_20230815_213018.wav	SMU03485_20230815_213018.wav			PIPPYG	42	42	1.000000	PIPPYG
223	SMU03485_20230815_213750.wav	SMU03485_20230815_213750.wav			PIPPYG	38	37	0.974000	PIPPYG
224	SMU03485_20230815_212118.wav	SMU03485_20230815_212118.wav			PIPPYG	31	31	0.959000	
225	SMU03485_20230815_213405.wav	SMU03485_20230815_213405.wav			PIPPYG	29	28	0.966000	
226	SMU03485_20230815_211650.wav	SMU03485_20230815_211650.wav			PIPPYG	32	15	0.469000	
227	SMU03485_20230816_011038.wav	SMU03485_20230816_011038.wav			PIPPYG	14	13	0.929000	
228	SMU03485_20230815_222401.wav	SMU03485_20230815_222401.wav			PIPPYG	13	12	0.923000	
229	SMU03485_20230815_235128.wav	SMU03485_20230815_235128.wav			PIPPYG	14	12	0.857000	
230	SMU03485_20230816_001708.wav	SMU03485_20230816_001708.wav			PIPPYG	11	11	1.000000	
231	SMU03485_20230815_233333.wav	SMU03485_20230815_233333.wav			PIPPYG	10	10	1.000000	
232	SMU03485_20230816_013458.wav	SMU03485_20230816_013458.wav			PIPPYG	10	10	1.000000	
233	SMU03485_20230815_210943.wav	SMU03485_20230815_210943.wav			PIPPYG	7	3	0.429000	

Appendix IV

Song meter mini with Kaleidoscope sound analysis placed in the middle hedgerow.

	FOLDER	IN FILE	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MA
1		MINIB_20230815_212012.wav	MINIB_20230815_212012_000.wav		NYCLEI	66	65	0.985000	
2		MINIB_20230815_211956.wav	MINIB_20230815_211956_000.wav		NYCLEI	60	56	0.933000	NYCLEI
3		MINIB_20230815_211454.wav	MINIB_20230815_211454_000.wav		NYCLEI	51	49	0.961000	NYCLEI
4		MINIB_20230815_211420.wav	MINIB_20230815_211420_000.wav		NYCLEI	46	46	1.000000	NYCLEI
5		MINIB_20230815_211313.wav	MINIB_20230815_211313_000.wav		NYCLEI	44	43	0.977000	NYCLEI
6		MINIB_20230816_005438.wav	MINIB_20230816_005438_000.wav		NYCLEI	41	34	0.829000	PIP
7		MINIB_20230816_052630.wav	MINIB_20230816_052630_000.wav		NYCLEI	34	33	0.971000	NYCLEI
8		MINIB_20230815_212912.wav	MINIB_20230815_212912_000.wav		NYCLEI	34	29	0.853000	NYCLEI
9		MINIB_20230815_212319.wav	MINIB_20230815_212319_000.wav		NYCLEI	32	28	0.875000	NYCLEI
10		MINIB_20230816_052700.wav	MINIB_20230816_052700_000.wav		NYCLEI	28	26	0.929000	NYCLEI
11		MINIB_20230815_211839.wav	MINIB_20230815_211839_000.wav		NYCLEI	31	24	0.774000	NYCLEI
12		MINIB_20230815_211328.wav	MINIB_20230815_211328_000.wav		NYCLEI	24	23	0.953000	
13		MINIB_20230816_055516.wav	MINIB_20230816_055516_000.wav		NYCLEI	26	23	0.885000	
14		MINIB_20230815_211824.wav	MINIB_20230815_211824_000.wav		NYCLEI	25	21	0.840000	
15		MINIB_20230815_235031.wav	MINIB_20230815_235031_000.wav		NYCLEI	20	20	1.000000	
16		MINIB_20230815_211854.wav	MINIB_20230815_211854_000.wav		NYCLEI	21	19	0.905000	
17		MINIB_20230815_211738.wav	MINIB_20230815_211738_000.wav		NYCLEI	25	19	0.760000	
18		MINIB_20230815_212856.wav	MINIB_20230815_212856_000.wav		NYCLEI	19	18	0.947000	
19		MINIB_20230816_015319.wav	MINIB_20230816_015319_000.wav		NYCLEI	22	18	0.818000	
20		MINIB_20230815_213907.wav	MINIB_20230815_213907_000.wav		NYCLEI	17	17	1.000000	
21		MINIB_20230816_045221.wav	MINIB_20230816_045221_000.wav		NYCLEI	20	17	0.850000	
22		MINIB_20230816_055602.wav	MINIB_20230816_055602_000.wav		NYCLEI	17	16	0.941000	
23		MINIB_20230815_210940.wav	MINIB_20230815_210940_000.wav		NYCLEI	21	16	0.762000	
24		MINIB_20230816_023223.wav	MINIB_20230816_023223_000.wav		NYCLEI	16	15	0.938000	
25		MINIB_20230816_040253.wav	MINIB_20230816_040253_000.wav		NYCLEI	16	15	0.938000	
26		MINIB_20230815_211809.wav	MINIB_20230815_211809_000.wav		NYCLEI	19	15	0.789000	
27		MINIB_20230815_213616.wav	MINIB_20230815_213616_000.wav		NYCLEI	21	15	0.714000	
28		MINIB_20230815_231359.wav	MINIB_20230815_231359_000.wav		NYCLEI	14	14	1.000000	
29		MINIB_20230816_050034.wav	MINIB_20230816_050034_000.wav		NYCLEI	13	13	1.000000	
30		MINIB_20230816_055547.wav	MINIB_20230816_055547_000.wav		NYCLEI	14	13	0.929000	
31		MINIB_20230816_052646.wav	MINIB_20230816_052646_000.wav		NYCLEI	13	12	0.923000	
32		MINIB_20230815_222542.wav	MINIB_20230815_222542_000.wav		NYCLEI	11	11	1.000000	
33		MINIB_20230816_035936.wav	MINIB_20230816_035936_000.wav		NYCLEI	12	11	0.917000	
34		MINIB_20230816_001423.wav	MINIB_20230816_001423_000.wav		NYCLEI	11	10	0.909000	
35		MINIB_20230816_005518.wav	MINIB_20230816_005518_000.wav		NYCLEI	9	9	1.000000	
36		MINIB_20230816_015929.wav	MINIB_20230816_015929_000.wav		NYCLEI	9	9	1.000000	
37		MINIB_20230816_020521.wav	MINIB_20230816_020521_000.wav		NYCLEI	9	9	1.000000	
38		MINIB_20230816_031253.wav	MINIB_20230816_031253_000.wav		NYCLEI	9	9	1.000000	
39		MINIB_20230815_211400.wav	MINIB_20230815_211400_000.wav		NYCLEI	14	9	0.643000	
40		MINIB_20230815_211652.wav	MINIB_20230815_211652_000.wav		NYCLEI	9	8	0.889000	
41		MINIB_20230815_224535.wav	MINIB_20230815_224535_000.wav		NYCLEI	10	8	0.800000	



	FOLDER	IN FILE	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MAN
38		MINIB_20230816_031253.wav	MINIB_20230816_031253_000.wav		NYCLEI	9	9	1.000000	
39		MINIB_20230815_211400.wav	MINIB_20230815_211400_000.wav		NYCLEI	14	9	0.643000	
40		MINIB_20230815_211652.wav	MINIB_20230815_211652_000.wav		NYCLEI	9	8	0.889000	
41		MINIB_20230815_224535.wav	MINIB_20230815_224535_000.wav		NYCLEI	10	8	0.800000	
42		MINIB_20230815_235248.wav	MINIB_20230815_235248_000.wav		NYCLEI	14	8	0.571000	
43		MINIB_20230815_211042.wav	MINIB_20230815_211042_000.wav		NYCLEI	16	8	0.500000	
44		MINIB_20230815_230100.wav	MINIB_20230815_230100_000.wav		NYCLEI	7	7	1.000000	
45		MINIB_20230815_235349.wav	MINIB_20230815_235349_000.wav		NYCLEI	7	7	1.000000	
46		MINIB_20230815_211509.wav	MINIB_20230815_211509_000.wav		NYCLEI	9	7	0.778000	
47		MINIB_20230815_234628.wav	MINIB_20230815_234628_000.wav		NYCLEI	9	7	0.778000	
48		MINIB_20230815_211707.wav	MINIB_20230815_211707_000.wav		NYCLEI	12	7	0.583000	
49		MINIB_20230815_211200.wav	MINIB_20230815_211200_000.wav		NYCLEI	15	7	0.467000	
50		MINIB_20230815_230504.wav	MINIB_20230815_230504_000.wav		NYCLEI	6	6	1.000000	
51		MINIB_20230815_211057.wav	MINIB_20230815_211057_000.wav		NYCLEI	7	6	0.857000	
52		MINIB_20230815_211026.wav	MINIB_20230815_211026_000.wav		NYCLEI	9	6	0.667000	
53		MINIB_20230815_211522.wav	MINIB_20230815_211522_000.wav		NYCLEI	5	5	1.000000	
54		MINIB_20230816_001431.wav	MINIB_20230816_001431_000.wav		NYCLEI	5	5	1.000000	
55		MINIB_20230816_011231.wav	MINIB_20230816_011231_000.wav		NYCLEI	5	5	1.000000	
56		MINIB_20230815_212804.wav	MINIB_20230815_212804_000.wav		NYCLEI	6	5	0.833000	
57		MINIB_20230815_215402.wav	MINIB_20230815_215402_000.wav		NYCLEI	6	5	0.833000	
58		MINIB_20230815_211215.wav	MINIB_20230815_211215_000.wav		NYCLEI	9	5	0.556000	
59		MINIB_20230815_211352.wav	MINIB_20230815_211352_000.wav		NYCLEI	4	4	1.000000	
60		MINIB_20230815_211925.wav	MINIB_20230815_211925_000.wav		NYCLEI	4	4	1.000000	
61		MINIB_20230816_041203.wav	MINIB_20230816_041203_000.wav		NYCLEI	4	4	1.000000	
62		MINIB_20230815_212123.wav	MINIB_20230815_212123_000.wav		NYCLEI	3	3	1.000000	
63		MINIB_20230816_032846.wav	MINIB_20230816_032846_000.wav		NYCLEI	3	3	1.000000	
64		MINIB_20230816_055500.wav	MINIB_20230816_055500_000.wav		NYCLEI	3	3	1.000000	
65		MINIB_20230815_211723.wav	MINIB_20230815_211723_000.wav		NYCLEI	6	3	0.500000	
66		MINIB_20230815_212340.wav	MINIB_20230815_212340_000.wav		NYCLEI	2	2	1.000000	
67		MINIB_20230816_015314.wav	MINIB_20230816_015314_000.wav		NYCLEI	2	2	1.000000	
68		MINIB_20230816_012807.wav	MINIB_20230816_012807_000.wav		NYCLEI	2	2	1.000000	
69		MINIB_20230816_022323.wav	MINIB_20230816_022323_000.wav		NYCLEI	2	2	1.000000	
70		MINIB_20230816_025633.wav	MINIB_20230816_025633_000.wav		NYCLEI	2	2	1.000000	
71		MINIB_20230816_032720.wav	MINIB_20230816_032720_000.wav		NYCLEI	2	2	1.000000	
72		MINIB_20230816_053301.wav	MINIB_20230816_053301_000.wav		NYCLEI	2	2	1.000000	
73		MINIB_20230816_031156.wav	MINIB_20230816_031156_000.wav		NYCLEI	3	2	0.667000	
74		MINIB_20230816_015330.wav	MINIB_20230816_015330_000.wav		NYCLEI	2	1	0.500000	
75		MINIB_20230815_210926.wav	MINIB_20230815_210926_000.wav		NYCLEI	3	1	0.333000	
76		MINIB_20230816_001530.wav	MINIB_20230816_001530_000.wav		NYCLEI	3	1	0.333000	
77		MINIB_20230815_210308.wav	MINIB_20230815_210308_000.wav		NoID	2	0	0.000000	
78		MINIB_20230815_211011.wav	MINIB_20230815_211011_000.wav		NoID	7	0	0.000000	

	FOLDER	IN FILE	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	N
183		MINIB_20230816_071905.wav	MINIB_20230816_071905_000.wav		Noise				
184		MINIB_20230816_072001.wav	MINIB_20230816_072001_000.wav		Noise				
185		MINIB_20230816_072035.wav	MINIB_20230816_072035_000.wav		Noise				
186		MINIB_20230815_212429.wav	MINIB_20230815_212429_000.wav		PIPPP	83	75	0.904000	
187		MINIB_20230816_052720.wav	MINIB_20230816_052720_000.wav		PIPPP	100	68	0.680000	
188		MINIB_20230815_214303.wav	MINIB_20230815_214303_000.wav		PIPPP	57	57	1.000000	
189		MINIB_20230816_053025.wav	MINIB_20230816_053025_000.wav		PIPPP	59	56	0.949000	
190		MINIB_20230816_052151.wav	MINIB_20230816_052151_000.wav		PIPPP	60	56	0.933000	
191		MINIB_20230816_004851.wav	MINIB_20230816_004851_000.wav		PIPPP	55	53	0.964000	
192		MINIB_20230815_212237.wav	MINIB_20230815_212237_000.wav		PIPPP	53	50	0.943000	
193		MINIB_20230815_232128.wav	MINIB_20230815_232128_000.wav		PIPPP	58	47	0.810000	
194		MINIB_20230815_213546.wav	MINIB_20230815_213546_000.wav		PIPPP	44	38	0.864000	
195		MINIB_20230816_051000.wav	MINIB_20230816_051000_000.wav		PIPPP	35	34	0.971000	
196		MINIB_20230815_221153.wav	MINIB_20230815_221153_000.wav		PIPPP	30	30	1.000000	
197		MINIB_20230816_052736.wav	MINIB_20230816_052736_000.wav		PIPPP	32	29	0.906000	
198		MINIB_20230816_002114.wav	MINIB_20230816_002114_000.wav		PIPPP	28	28	1.000000	
199		MINIB_20230815_214500.wav	MINIB_20230815_214500_000.wav		PIPPP	57	28	0.491000	
200		MINIB_20230816_052443.wav	MINIB_20230816_052443_000.wav		PIPPP	27	27	1.000000	
201		MINIB_20230816_052109.wav	MINIB_20230816_052109_000.wav		PIPPP	24	24	1.000000	
202		MINIB_20230816_052407.wav	MINIB_20230816_052407_000.wav		PIPPP	23	23	1.000000	
203		MINIB_20230815_215204.wav	MINIB_20230815_215204_000.wav		PIPPP	21	21	1.000000	
204		MINIB_20230815_234158.wav	MINIB_20230815_234158_000.wav		PIPPP	20	20	1.000000	
205		MINIB_20230816_050650.wav	MINIB_20230816_050650_000.wav		PIPPP	19	19	1.000000	
206		MINIB_20230815_220300.wav	MINIB_20230815_220300_000.wav		PIPPP	18	18	1.000000	
207		MINIB_20230816_052844.wav	MINIB_20230816_052844_000.wav		PIPPP	16	16	1.000000	
208		MINIB_20230815_222502.wav	MINIB_20230815_222502_000.wav		PIPPP	15	15	1.000000	
209		MINIB_20230816_052553.wav	MINIB_20230816_052553_000.wav		PIPPP	15	15	1.000000	
210		MINIB_20230816_043200.wav	MINIB_20230816_043200_000.wav		PIPPP	14	14	1.000000	
211		MINIB_20230816_052512.wav	MINIB_20230816_052512_000.wav		PIPPP	14	14	1.000000	
212		MINIB_20230815_233943.wav	MINIB_20230815_233943_000.wav		PIPPP	17	13	0.765000	
213		MINIB_20230816_040845.wav	MINIB_20230816_040845_000.wav		PIPPP	16	12	0.750000	
214		MINIB_20230816_052026.wav	MINIB_20230816_052026_000.wav		PIPPP	12	11	0.917000	
215		MINIB_20230816_005241.wav	MINIB_20230816_005241_000.wav		PIPPP	11	10	0.909000	
216		MINIB_20230815_222332.wav	MINIB_20230815_222332_000.wav		PIPPP	9	9	1.000000	
217		MINIB_20230815_231424.wav	MINIB_20230815_231424_000.wav		PIPPP	9	9	1.000000	
218		MINIB_20230816_052056.wav	MINIB_20230816_052056_000.wav		PIPPP	9	9	1.000000	
219		MINIB_20230816_052355.wav	MINIB_20230816_052355_000.wav		PIPPP	9	9	1.000000	
220		MINIB_20230816_052215.wav	MINIB_20230816_052215_000.wav		PIPPP	10	9	0.900000	
221		MINIB_20230816_052046.wav	MINIB_20230816_052046_000.wav		PIPPP	4	4	1.000000	
222		MINIB_20230815_222319.wav	MINIB_20230815_222319_000.wav		PIPPP	9	3	0.333000	
223		MINIB_20230815_232124.wav	MINIB_20230815_232124_000.wav		PIPPP	2	2	1.000000	



FOLDER	IN FILE	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MANU
213	MINIB_20230816_040845.wav	MINIB_20230816_040845_000.wav		PIPPIP	16	12	0.750000	
214	MINIB_20230816_052026.wav	MINIB_20230816_052026_000.wav		PIPPIP	12	11	0.917000	
215	MINIB_20230816_005241.wav	MINIB_20230816_005241_000.wav		PIPPIP	11	10	0.909000	
216	MINIB_20230815_222332.wav	MINIB_20230815_222332_000.wav		PIPPIP	9	9	1.000000	
217	MINIB_20230815_231424.wav	MINIB_20230815_231424_000.wav		PIPPIP	9	9	1.000000	
218	MINIB_20230816_052056.wav	MINIB_20230816_052056_000.wav		PIPPIP	9	9	1.000000	
219	MINIB_20230816_052355.wav	MINIB_20230816_052355_000.wav		PIPPIP	9	9	1.000000	
220	MINIB_20230816_052215.wav	MINIB_20230816_052215_000.wav		PIPPIP	10	9	0.900000	
221	MINIB_20230816_052046.wav	MINIB_20230816_052046_000.wav		PIPPIP	4	4	1.000000	
222	MINIB_20230815_222319.wav	MINIB_20230815_222319_000.wav		PIPPIP	9	3	0.333000	
223	MINIB_20230815_232124.wav	MINIB_20230815_232124_000.wav		PIPPIP	2	2	1.000000	
224	MINIB_20230815_213042.wav	MINIB_20230815_213042_000.wav		PIPPYG	154	154	1.000000	
225	MINIB_20230815_232228.wav	MINIB_20230815_232228_000.wav		PIPPYG	62	60	0.968000	
226	MINIB_20230815_212949.wav	MINIB_20230815_212949_000.wav		PIPPYG	75	55	0.733000	
227	MINIB_20230815_212344.wav	MINIB_20230815_212344_000.wav		PIPPYG	55	54	0.982000	
228	MINIB_20230815_213756.wav	MINIB_20230815_213756_000.wav		PIPPYG	47	44	0.936000	
229	MINIB_20230815_213356.wav	MINIB_20230815_213356_000.wav		PIPPYG	48	41	0.854000	
230	MINIB_20230816_003936.wav	MINIB_20230816_003936_000.wav		PIPPYG	40	40	1.000000	
231	MINIB_20230815_213324.wav	MINIB_20230815_213324_000.wav		PIPPYG	41	40	0.976000	
232	MINIB_20230815_214053.wav	MINIB_20230815_214053_000.wav		PIPPYG	28	28	1.000000	
233	MINIB_20230815_223838.wav	MINIB_20230815_223838_000.wav		PIPPYG	25	25	1.000000	
234	MINIB_20230816_054214.wav	MINIB_20230816_054214_000.wav		PIPPYG	25	25	1.000000	
235	MINIB_20230816_011727.wav	MINIB_20230816_011727_000.wav		PIPPYG	30	20	0.667000	
236	MINIB_20230815_213405.wav	MINIB_20230815_213405_000.wav		PIPPYG	24	19	0.792000	
237	MINIB_20230815_234546.wav	MINIB_20230815_234546_000.wav		PIPPYG	26	17	0.654000	
238	MINIB_20230815_222409.wav	MINIB_20230815_222409_000.wav		PIPPYG	16	16	1.000000	
239	MINIB_20230816_001815.wav	MINIB_20230816_001815_000.wav		PIPPYG	16	16	1.000000	
240	MINIB_20230816_022416.wav	MINIB_20230816_022416_000.wav		PIPPYG	21	16	0.762000	
241	MINIB_20230815_232315.wav	MINIB_20230815_232315_000.wav		PIPPYG	13	13	1.000000	
242	MINIB_20230816_020943.wav	MINIB_20230816_020943_000.wav		PIPPYG	15	12	0.800000	
243	MINIB_20230815_230352.wav	MINIB_20230815_230352_000.wav		PIPPYG	17	12	0.706000	
244	MINIB_20230815_221652.wav	MINIB_20230815_221652_000.wav		PIPPYG	11	11	1.000000	
245	MINIB_20230815_232732.wav	MINIB_20230815_232732_000.wav		PIPPYG	11	10	0.909000	
246	MINIB_20230816_034041.wav	MINIB_20230816_034041_000.wav		PIPPYG	18	10	0.556000	
247	MINIB_20230816_053454.wav	MINIB_20230816_053454_000.wav		PIPPYG	9	9	1.000000	
248	MINIB_20230816_021613.wav	MINIB_20230816_021613_000.wav		PIPPYG	14	9	0.643000	
249	MINIB_20230815_212048.wav	MINIB_20230815_212048_000.wav		PIPPYG	8	5	0.625000	
250	MINIB_20230816_045035.wav	MINIB_20230816_045035_000.wav		PIPPYG	6	4	0.667000	
251	MINIB_20230816_020743.wav	MINIB_20230816_020743_000.wav		PLEAUR	3	2	0.667000	PIP
252	MINIB_20230816_020751.wav	MINIB_20230816_020751_000.wav		PLEAUR	5	2	0.400000	PIP

Appendix V

Song meter mini placed overnight in the northern treeline (for removal)

FOLDER	IN FILE	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MANUAL ID
1	2023-08-15 23-31-50.wav	2023-08-15 23-31-50_00000_000.wav		MYODAU	5	2	0.400000	
2	2023-08-16 06-56-24.wav	2023-08-16 06-56-24_00000_000.wav		NVCLEI	43	41	0.953000	
3	2023-08-16 06-56-08.wav	2023-08-16 06-56-08_00000_000.wav		NVCLEI	41	40	0.976000	
4	2023-08-16 06-32-58.wav	2023-08-16 06-32-58_00000_000.wav		NVCLEI	37	36	0.973000	
5	2023-08-15 22-20-26.wav	2023-08-15 22-20-26_00000_000.wav		NVCLEI	37	35	0.946000	
6	2023-08-16 06-56-37.wav	2023-08-16 06-56-37_00000_000.wav		NVCLEI	32	32	1.000000	
7	2023-08-15 22-20-44.wav	2023-08-15 22-20-44_00000_000.wav		NVCLEI	33	32	0.970000	
8	2023-08-16 06-55-48.wav	2023-08-16 06-55-48_00000_000.wav		NVCLEI	28	27	0.964000	
9	2023-08-16 06-55-32.wav	2023-08-16 06-55-32_00000_000.wav		NVCLEI	25	25	1.000000	
10	2023-08-16 06-55-32.1.wav	2023-08-16 06-55-32.1_00000_000.wav		NVCLEI	22	22	1.000000	
11	2023-08-15 22-28-11.wav	2023-08-15 22-28-11_00000_000.wav		NVCLEI	19	19	1.000000	
12	2023-08-15 22-28-56.wav	2023-08-15 22-28-56_00000_000.wav		NVCLEI	20	19	0.950000	
13	2023-08-15 22-18-04.wav	2023-08-15 22-18-04_00000_000.wav		NVCLEI	25	19	0.760000	
14	2023-08-15 22-11-08.wav	2023-08-15 22-11-08_00000_000.wav		NVCLEI	22	18	0.818000	
15	2023-08-15 22-14-25.wav	2023-08-15 22-14-25_00000_000.wav		NVCLEI	16	14	0.875000	
16	2023-08-15 22-28-34.wav	2023-08-15 22-28-34_00000_000.wav		NVCLEI	13	13	1.000000	
17	2023-08-15 22-18-25.wav	2023-08-15 22-18-25_00000_000.wav		NVCLEI	23	13	0.565000	
18	2023-08-15 22-12-16.wav	2023-08-15 22-12-16_00000_000.wav		NVCLEI	26	13	0.500000	
19	2023-08-15 22-14-37.wav	2023-08-15 22-14-37_00000_000.wav		NVCLEI	15	12	0.800000	
20	2023-08-15 22-10-53.wav	2023-08-15 22-10-53_00000_000.wav		NVCLEI	20	11	0.550000	
21	2023-08-15 22-23-49.wav	2023-08-15 22-23-49_00000_000.wav		NVCLEI	12	10	0.833000	
22	2023-08-15 22-19-06.wav	2023-08-15 22-19-06_00000_000.wav		NVCLEI	20	10	0.500000	
23	2023-08-15 22-10-11.wav	2023-08-15 22-10-11_00000_000.wav		NVCLEI	9	9	1.000000	
24	2023-08-15 22-12-37.wav	2023-08-15 22-12-37_00000_000.wav		NVCLEI	14	9	0.643000	
25	2023-08-15 22-20-06.wav	2023-08-15 22-20-06_00000_000.wav		NVCLEI	9	8	0.889000	
26	2023-08-15 22-16-21.wav	2023-08-15 22-16-21_00000_000.wav		NVCLEI	11	8	0.727000	
27	2023-08-15 22-13-37.wav	2023-08-15 22-13-37_00000_000.wav		NVCLEI	7	7	1.000000	
28	2023-08-15 22-13-57.wav	2023-08-15 22-13-57_00000_000.wav		NVCLEI	7	7	1.000000	
29	2023-08-15 22-17-43.wav	2023-08-15 22-17-43_00000_000.wav		NVCLEI	7	7	1.000000	
30	2023-08-15 22-18-46.wav	2023-08-15 22-18-46_00000_000.wav		NVCLEI	14	6	0.429000	
31	2023-08-15 22-15-16.wav	2023-08-15 22-15-16_00000_000.wav		NVCLEI	5	5	1.000000	
32	2023-08-15 23-32-04.wav	2023-08-15 23-32-04_00000_000.wav		NVCLEI	5	5	1.000000	
33	2023-08-15 22-24-43.wav	2023-08-15 22-24-43_00000_000.wav		NVCLEI	6	5	0.833000	
34	2023-08-16 06-56-59.wav	2023-08-16 06-56-59_00000_000.wav		NVCLEI	6	5	0.833000	
35	2023-08-15 22-16-40.wav	2023-08-15 22-16-40_00000_000.wav		NVCLEI	8	5	0.625000	
36	2023-08-15 22-10-23.wav	2023-08-15 22-10-23_00000_000.wav		NVCLEI	9	5	0.556000	
37	2023-08-15 22-19-25.wav	2023-08-15 22-19-25_00000_000.wav		NVCLEI	4	4	1.000000	
38	2023-08-15 22-10-09.wav	2023-08-15 22-10-09_00000_000.wav		NoID	2	0	0.000000	
514	2023-08-16 07-03-20.wav	2023-08-16 07-03-20_00000_000.wav		Noise				
515	2023-08-16 07-01-07.wav	2023-08-16 07-01-07_00000_000.wav		Noise				
516	2023-08-16 07-03-29.wav	2023-08-16 07-03-29_00000_000.wav		Noise				
517	2023-08-16 07-01-57.wav	2023-08-16 07-01-57_00000_000.wav		Noise				
518	2023-08-16 07-01-42.wav	2023-08-16 07-01-42_00000_000.wav		Noise				
519	2023-08-16 07-02-32.wav	2023-08-16 07-02-32_00000_000.wav		Noise				
520	2023-08-16 07-03-50.wav	2023-08-16 07-03-50_00000_000.wav		Noise				
521	2023-08-15 23-03-13.wav	2023-08-15 23-03-13_00000_000.wav		PIPPIP	11	11	1.000000	
522	2023-08-15 22-43-34.wav	2023-08-15 22-43-34_00000_000.wav		PIPPIP	9	9	1.000000	
523	2023-08-15 22-16-02.wav	2023-08-15 22-16-02_00000_000.wav		PIPPIP	6	5	0.833000	
524	2023-08-15 22-45-24.wav	2023-08-15 22-45-24_00000_000.wav		PIPPIP	2	1	0.500000	
525	2023-08-15 22-50-55.wav	2023-08-15 22-50-55_00000_000.wav		PIPPYG	17	17	1.000000	
526	2023-08-15 23-24-42.wav	2023-08-15 23-24-42_00000_000.wav		PIPPYG	8	8	1.000000	
527	2023-08-15 23-08-06.wav	2023-08-15 23-08-06_00000_000.wav		PIPPYG	6	6	1.000000	
528	2023-08-15 23-32-28.wav	2023-08-15 23-32-28_00000_000.wav		PIPPYG	5	5	1.000000	
529	2023-08-15 22-27-05.wav	2023-08-15 22-27-05_00000_000.wav		PIPPYG	2	2	1.000000	

Appendix VI



Bat data from within 10km of the site

BCIreland data: search results 18 Aug 2023					
Search parameters: Roosts Transects Ad-hoc observation sites with observations of all species within 10000m of O0636631532					
Roosts					
Name	Grid reference	Grid ref easting	Grid ref northing	Address	Species observed
23 Woodbrook Park	O127281	312700	228100	Templeogue, County Dublin	Nyctalus leisleri
33 Inchicore Rd	O1234	312000	234000	Inchicore Rd, Dublin 8, County Dublin	Unidentified bat
36 Oaklawn Wood	O0036	300000	236000	Leixlip, County Kildare	Nyctalus leisleri
4 Crookshare	O0125	301000	225000	Rathcoole, County Dublin	Unidentified bat
60 Cremore	O1227	312000	227000	Templeogue, Dublin 16, County Dublin	Unidentified bat
7 Stirling Park	O1530	315000	230000	Orwell Road, Rathgar, Dublin 14	Unidentified bat
71 Forest Hill	O0226	302000	226000	Rathcoole, County Dublin	Unidentified bat
Abbotstown House	O092393	309200	239300	Abbotstown Avenue, Finglas West, Dublin 11, County Dublin	Nyctalus leisleri
Airlie Stud Stable Block, Adamstown, Co. Dublin	O020336	302000	233600	Airlie Stud Stable Block, Adamstown, Co. Dublin	Unidentified bat
Anna Liffey House	O0436	304000	236000	Lucan, County Dublin	Pipistrellus spp. (45kHz/55kHz), Plecotus auritus
Avalon	O005413	300500	241300	Dunboyne, County Meath	Pipistrellus pygmaeus, Myotis mystacinus
Bailiff's/Superintendent's Lodge	O109356	310900	235600	Phoenix Park, County Dublin	Pipistrellus pygmaeus
Beech Tree Roost St Catherines Park	O014359	301400	235900	Leixlip, County Kildare	Myotis daubentonii
Blanchardstown Hospital	O0839	308000	239000	Dublin 15	Pipistrellus spp. (45kHz/55kHz), Pipistrellus pygmaeus
Castleknock College	O0868736557	308687	236557	Castleknock, County Dublin	Plecotus auritus, Pipistrellus pygmaeus, Pipistrellus pipistrellus



					(45kHz), Nyctalus leisleri, Myotis spp.
Cheeverstown house	O125285	312500	228500	Templeogue, Dublin 6W	Pipistrellus pygmaeus
Church at St. Mary's Hospital	O106347	310600	234700	Phoenix Park, Dublin 20, County Dublin	Plecotus auritus
Church of the Nativity of the Blessed Mary	O0390026700	303900	226700	Garters Lane, Saggart, Co. Dublin	Plecotus auritus
Corner Park Farm	O0029229287	300292	229287	Corner Park Farm, Peamount Road, R120, Cornerpark, Newcastle, Co. Dublin	
Crodaun, cottage	N9700035000	297000	235000	Celbridge Gateway Site, Celbridge, Co. Kildare	Pipistrellus pipistrellus (45kHz)
Deerfield House, Phoenix Park	O1100035500	311000	235500	Phoenix Park, Dublin	Plecotus auritus
Donna Mullen	N967330	296700	233000	Tea Lane Cemetery - OPW building, Celbridge	Pipistrellus pipistrellus (45kHz)
Esker House	O037343	303700	234300	Lucan, County Dublin	Pipistrellus spp. (45kHz/55kHz), Plecotus auritus
Farmleigh House	O092363	309200	236300	OPW, Farmleigh House, Phoenix Park, Dublin	Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
Former Pathology Building	O159330	315900	233000	Former UCD Campus, at the rear of the National Concert Hall, Earlsfort Terrace, Dublin 2, County Dublin	Pipistrellus pygmaeus
Gleeson Residence Killeel	N990217	299000	221700	Killeel, County Kildare	Pipistrellus spp. (45kHz/55kHz)
Hunter Residence	O043412	304300	241200	Main street, Clonee, County Meath	Pipistrellus pygmaeus, Unidentified bat
King Residence	N9721	297000	221000	Furry hill, Rathmore, Naas, County Kildare	Unidentified bat
Kingsfurze	O0835	308000	235000	Old lucan rd, Palmerstown, Dublin 20	Unidentified bat
Knockmary Hill Lodge	O104347	310400	234700	Phoenix Park, Dublin 8, County Dublin	Pipistrellus spp. (45kHz/55kHz)
Large Clock Tower	O091362	309100	236200	Farmleigh Estate, Phoenix Park, County Dublin	Pipistrellus pipistrellus (45kHz)
Laundry Gate Lodge	O120357	312000	235700	Phoenix Park, Dublin 8, County Dublin	Pipistrellus pygmaeus



Lime Tree Roost, St Catherines Park	0016360	301600	236000	Leixlip, County Kildare	Pipistrellus pipistrellus (45kHz)
Lucan Spa Hotel Roost	0024351	302400	235100	Lucan, Co. Dublin	Pipistrellus spp. (45kHz/55kHz)
Luttrellstown Castle cave	00512036930	305120	236930	Luttrellstown Castle, Castleknock, Fingal, Dublin	Myotis daubentonii
Luttrellstown Castle folly	00512336956	305123	236956	Luttrellstown Castle, KnockFingal, Dublin	Plecotus auritus, Myotis nattereri
Mc Kee Barracks	01335	313000	235000	Phoenix Park, Dublin 7	Myotis mystacinus
Mock church tower	0117361	311700	236100	Ratra House (Civil Defence School) Training area, Phoenix Park, County Dublin	Nyctalus leisleri
Mountjoy House	01002436053	310024	236053	Mountjoy House, OSI, Phoenix Park, Dublin	Plecotus auritus
Mountjoy House building	01001836051	310018	236051	Mountjoy House, Phoenix Park, Co. Dublin	Plecotus auritus
National Concert Hall	01593432988	315934	232988	Earlsfort Terrace, Dublin 2	Pipistrellus pygmaeus
Oak tree with damaged branch	N9780433455	297804	233455	Donaghcumper House, Donaghcumper, Celbridge, County Kildare	Nyctalus leisleri
Old Industrial Site	01466034819	314660	234819	Old Industrial Site, Brunswick Street, County Dublin	Pipistrellus pipistrellus (45kHz)
Old shower block	0121345	312100	234500	Magazine Fort, Phoenix Park, County Dublin	Pipistrellus spp. (45kHz/55kHz)
OPW Storage Areas	0120357	312000	235700	Áras an uachtarain, Phoenix Park, County Dublin	Plecotus auritus
Owner unknown	00445538942	304455	238942	The Stables, Allandale, Hansfield rd, Clonsilla	Pipistrellus pipistrellus (45kHz)
Private Residence, Tobermaclugg Lane, Lucan, Co. Dublin	0017244	301700	224400	Private Residence, Tobermaclugg Lane, Lucan, Co. Dublin	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Rathcoole House	0019268	301900	226800	Rathcoole, County Dublin	Unidentified bat
Rivendell	N967313	296700	231300	Templemills, Cellbridge, County Kildare	Pipistrellus pygmaeus



Shed at Deerkeeper\'s Lodge	O114343	311400	234300	Phoenix Park, County Dublin	Plecotus auritus
Small clock tower	O091362	309100	236200	Farmleigh Estate, Phoenix Park, Dublin 8, County Dublin	Nyctalus leisleri
St Brigids Castleknock	O089371	308900	237100	Castleknock, Dublin	Plecotus auritus
St Marys	O1533	315000	233000	Grange Rd, Rathfarnham, Dublin 6, County Dublin	Nyctalus leisleri
St Marys	O1335	313000	235000	Phoenix Park, Dublin	Nyctalus leisleri
St Pius	O1533	315000	233000	Fortfield, Dublin	Unidentified bat
St. Finian's School Newcastle	N9997728604	299977	228604	St. Finian's School, Newcastle, Co. Dublin	Pipistrellus spp. (45kHz/55kHz)
Stables	O0000028000	300000	228000	Newcastle Lyons, Newcastle, Co. Dublin.	Pipistrellus spp. (45kHz/55kHz)
Tandys Lane Farmhouse, Adamstown, Co. Dublin	O025334	302500	233400	Tandys Lane farmhouse, Tandys Lane, Adamstown, Lucan, Co. DUblin.	Unidentified bat, Plecotus auritus
Tibradden Stableyard, Tibradden House, Rathfarnham, Dublin 16	O141243	314100	224300	Cloragh Yard & Tibradden Stableyard, Tibradden House, Mutton Lane, Rathfarnham, Dublin 16	Pipistrellus spp. (45kHz/55kHz)
Tierney Residence	O0541	305000	241000	Damastown, Naul County Dublin	Unidentified bat
Two storey house, Oakville House	N998287	299800	228700	Main Street, Newcastle, County Dublin	Pipistrellus pygmaeus, Unidentified bat
US Ambassador\'s residence and outbuildings	O109355	310900	235500	Phoenix Park, County Dublin	Plecotus auritus
Viking Components Europe	O1533	315000	233000	Citywest Business Campus, County Dublin	Unidentified bat
Warrenstown House, Blanchardstown Road North, Blanchardstown, Dublin 15	O079403	307900	240300	Warrenstown House, Blanchardstown Road North, Blanchardstown, Dublin 15	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Pipistrellus spp. (45kHz/55kHz)



Whitechurch Church of Ireland	O147257	314700	225700	Whitechurch, County Dublin	Plecotus auritus
Transects					
Name	Grid reference start	Grid reference easting start	Grid reference northing start	Species observed	
12th Lock, Lucan Road Bridge Transect	O0298032236	302980	232236	Myotis daubentonii, Unidentified bat	
Abbotstown Bridge Transect	O0930038300	309300	238300	Myotis daubentonii, Unidentified bat	
Ashtown Station Transect	O1105037450	311050	237450	Myotis daubentonii, Unidentified bat	
Ayimer Bridge Transect	N9730029500	297300	229500	Myotis daubentonii, Unidentified bat, Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)	
Ballydoden Road Transect, Dublin	O1240028400	312400	228400	Myotis daubentonii, Unidentified bat	
Bridge on Spring Avenue	O1361028910	313610	228910	Myotis daubentonii, Unidentified bat, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)	
Cardiff Bridge Transect	O1260037700	312600	237700	Myotis daubentonii, Unidentified bat	
Castle Kelly Bridge Transect	O0955421775	309554	221775	Myotis daubentonii, Unidentified bat	
Castle Kelly Bridge Transect spot 1	O0955421775	309554	221775	Nyctalus leisleri, Myotis daubentonii	
Castle Kelly Bridge Transect spot 2	O0961921687	309619	221687	Nyctalus leisleri, Myotis daubentonii, Unidentified bat	
Castle Kelly Bridge Transect spot 3	O0967321579	309673	221579	Nyctalus leisleri, Myotis daubentonii	
Castleknock Transect, Spot 10	O0826538006	308265	238006	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz), Myotis spp.	
Castleknock Transect, Spot 2	O0742037740	307420	237740		
Castleknock Transect, Spot 3	O0752137740	307521	237740	Unidentified bat, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz), Myotis spp.	
Castleknock Transect, Spot 4	O0762137780	307621	237780	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis spp.	
Castleknock Transect, Spot 5	O0772337822	307723	237822	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus nathusii, Pipistrellus spp. (45kHz/55kHz), Myotis spp., Nyctalus leisleri	
Castleknock Transect, Spot 6	O0782637869	307826	237869	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz)	



Castleknock Transect, Spot 7	O07929 37914	307 929	2379 14	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz)
Castleknock Transect, Spot 8	O08034 37956	308 034	2379 56	Unidentified bat, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz)
Castleknock Transect, Spot 9	O08154 37985	308 154	2379 85	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz)
Castletown Estate Transect	N99204 34119	299 204	2341 19	Unidentified bat, Myotis daubentonii, Nyctalus leisleri, Pipistrellus spp. (45kHz/55kHz)
Celbridge Gateway Site	N97000 35000	297 000	2350 00	Myotis nattereri, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Collins Bridge Transect	O02800 36750	302 800	2367 50	Myotis daubentonii, Unidentified bat, Nyctalus leisleri
Cope Bridge Leixlip Transect	O00793 37067	300 793	2370 67	Unidentified bat, Myotis daubentonii
Deey Bridge Transect	N97937 4	297 900	2374 00	Myotis daubentonii, Unidentified bat
Dolphins Barn, Dublin Transect	O13689 32684	313 689	2326 84	Unidentified bat, Myotis daubentonii
Grand Canal at Inchicore	O10859 32713	310 859	2327 13	
Grandard Bridge Transect	O09400 38100	309 400	2381 00	Myotis daubentonii, Unidentified bat
Griffth Park to Drumcondra Park Transect	O16187 36725	316 187	2367 25	Pipistrellus spp. (45kHz/55kHz), Myotis daubentonii, Unidentified bat
Hazelhatch Bridge Transect	N98800 30700	298 800	2307 00	Myotis daubentonii, Unidentified bat
Kilmainham Section (Inchicore) Transect	O12800 33200	312 800	2332 00	Myotis daubentonii, Unidentified bat
Leixlip Bridge Transect	O00750 35810	300 750	2358 10	Myotis daubentonii, Unidentified bat
Newbridge Firhouse Transect, Spot 1	O11461 27746	311 461	2277 46	Pipistrellus pygmaeus
Newbridge Firhouse Transect, Spot 10	O10561 27168	310 561	2271 68	Unidentified bat, Myotis daubentonii
Newbridge Firhouse Transect, Spot 2	O11323 27735	311 323	2277 35	Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Myotis daubentonii
Newbridge Firhouse Transect, Spot 3	O11222 27724	311 222	2277 24	Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri, Myotis spp., Pipistrellus pipistrellus (45kHz), Myotis daubentonii
Newbridge Firhouse Transect, Spot 4	O11105 27716	311 105	2277 16	Pipistrellus pygmaeus, Myotis daubentonii



Newbridge Firhouse Transect, Spot 5	O10970 27703	310 970	2277 03	Pipistrellus spp. (45kHz/55kHz)
Newbridge Firhouse Transect, Spot 6	O10884 27600	310 884	2276 00	Unidentified bat,Pipistrellus spp. (45kHz/55kHz),Pipistrellus pygmaeus
Newbridge Firhouse Transect, Spot 7	O10811 27498	310 811	2274 98	Myotis daubentonii,Unidentified bat,Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Pipistrellus pipistrellus (45kHz),Myotis spp.
Newbridge Firhouse Transect, Spot 8	O10742 27345	310 742	2273 45	Myotis spp.
Newbridge Firhouse Transect, Spot 9	O10655 27272	310 655	2272 72	Myotis daubentonii,Unidentified bat,Myotis spp.
Newcastle Lyons	O00000 28000	300 000	2280 00	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Oldbawn Bridge Transect	O09750 26300	309 750	2263 00	Unidentified bat,Myotis daubentonii
Phibsboro	O15097 36264	315 097	2362 64	Unidentified bat
Portobello Grove Rd Transect	O15685 32465	315 685	2324 65	Unidentified bat,Myotis daubentonii
ransect	O11461 27746	311 461	2277 46	Myotis daubentonii,Unidentified bat
Rathfarnham Rd R114 Bridge Transect	O14424 29689	314 424	2296 89	Unidentified bat,Myotis daubentonii
Rye Bridge Transect	O00435 8	300 400	2358 00	Myotis daubentonii,Unidentified bat
St. Lukes Hospital	O15522 29787	315 522	2297 87	Myotis daubentonii,Unidentified bat
Templeogue Bridge (Sth R137)	O12152 28204	312 152	2282 04	Myotis daubentonii,Unidentified bat
Transect 4: Ballinascorney	O07507 22060	307 507	2220 60	Pipistrellus pipistrellus (45kHz),Myotis spp.,Nyctalus leisleri,Pipistrellus spp. (45kHz/55kHz)
Violet Hill Drive Transect	O13833 37699	313 833	2376 99	Nyctalus leisleri,Pipistrellus spp. (45kHz/55kHz),Unidentified bat,Myotis daubentonii
Violet Hill Drive Transect, Spot 1	O14705 37501	314 705	2375 01	
Violet Hill Drive Transect, Spot 10	O13833 37699	313 833	2376 99	Unidentified bat
Violet Hill Drive Transect, Spot 2	O14608 35550	314 608	2355 50	
Violet Hill Drive Transect, Spot 3	O14503 37609	314 503	2376 09	



Violet Hill Drive Transect, Spot 4	O14410 37605	314 410	2376 05	Pipistrellus pipistrellus (45kHz)	
Violet Hill Drive Transect, Spot 5	O14354 37489	314 354	2374 89	Myotis daubentonii	
Violet Hill Drive Transect, Spot 6	O14283 37439	314 283	2374 39	Myotis daubentonii	
Violet Hill Drive Transect, Spot 7	O14197 37490	314 197	2374 90	Pipistrellus pipistrellus (45kHz), Unidentified bat, Myotis daubentonii	
Violet Hill Drive Transect, Spot 8	O14115 37522	314 115	2375 22	Unidentified bat	
Violet Hill Drive Transect, Spot 9	O13909 37688	313 909	2376 88	Pipistrellus pipistrellus (45kHz)	
War Memorial Garden Transect	O11700 34150	311 700	2341 50	Myotis daubentonii, Unidentified bat	
Waterstown Park	O08481 35923	308 481	2359 23	Unidentified bat, Myotis daubentonii	
Ad-hoc observations					
Survey	Grid referenc e	Grid ref east ing	Grid ref nort hing	Date	Species observed
Bat Eco Services	O04888 26129	304 888	2261 29	#####	Myotis spp., Nyctalus leisleri, Myotis nattereri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O01663 33627	301 663	2336 27	6/2/2020	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Bat Eco Services	O01362 33265	301 362	2332 65	6/2/2020	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Plecotus auritus
Bat Eco Services	N97183 29523	297 183	2295 23	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	N97134 29563	297 134	2295 63	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	N97024 29654	297 024	2296 54	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	N99191 30517	299 191	2305 17	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	N97832 30995	297 832	2309 95	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	N98360 31204	298 360	2312 04	#####	Pipistrellus pipistrellus (45kHz)



Bat Eco Services	N96369 29661	296 369	2296 61	#####	Nyctalus leisleri
Bat Eco Services	N96691 29953	296 691	2299 53	#####	Nyctalus leisleri
Bat Eco Services	N98970 30519	298 970	2305 19	#####	Nyctalus leisleri
Bat Eco Services	N99980 30667	299 980	2306 67	#####	Nyctalus leisleri
Bat Eco Services	N96861 29802	296 861	2298 02	#####	Pipistrellus pygmaeus
Bat Eco Services	N98660 30908	298 660	2309 08	#####	Pipistrellus pygmaeus
Bat Eco Services	N98028 23199	298 028	2231 99	#####	Nyctalus leisleri, Myotis daubentonii, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Plecotus auritus
Bat Eco Services	O09106 38169	309 106	2381 69	5/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09110 38169	309 110	2381 69	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09104 38162	309 104	2381 62	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09100 38167	309 100	2381 67	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09108 38158	309 108	2381 58	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09113 38160	309 113	2381 60	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09106 38159	309 106	2381 59	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09117 38162	309 117	2381 62	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09107 38154	309 107	2381 54	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O05132 38068	305 132	2380 68	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O09110 38164	309 110	2381 64	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	O10569 37446	310 569	2374 46	#####	Myotis daubentonii
Bat Eco Services	O09092 38153	309 092	2381 53	5/2/2022	Myotis daubentonii, Pipistrellus pygmaeus
Bat Eco Services	O05054 38102	305 054	2381 02	5/2/2022	Myotis daubentonii
Bat Eco Services	O09095 38158	309 095	2381 58	5/2/2022	Myotis daubentonii



Bat Eco Services	009094 38157	309 094	2381 57	5/2/2022	Myotis daubentonii
Bat Eco Services	009112 38170	309 112	2381 70	5/2/2022	Myotis daubentonii
Bat Eco Services	009091 38158	309 091	2381 58	5/2/2022	Myotis daubentonii
Bat Eco Services	009127 38164	309 127	2381 64	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	009096 38153	309 096	2381 53	5/2/2022	Myotis daubentonii
Bat Eco Services	005054 38101	305 054	2381 01	5/2/2022	Myotis daubentonii
Bat Eco Services	003875 38240	303 875	2382 40	5/3/2022	Myotis daubentonii
Bat Eco Services	003360 37600	303 360	2376 00	5/3/2022	Myotis daubentonii
Bat Eco Services	006899 37566	306 899	2375 66	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	010701 37394	310 701	2373 94	9/2/2021	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009600 38000	309 600	2380 00	9/2/2021	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010569 37452	310 569	2374 52	9/2/2021	Nyctalus leisleri
Bat Eco Services	009625 37990	309 625	2379 90	#####	Nyctalus leisleri
Bat Eco Services	009427 38071	309 427	2380 71	#####	Nyctalus leisleri
Bat Eco Services	009775 37932	309 775	2379 32	#####	Nyctalus leisleri
Bat Eco Services	007145 37593	307 145	2375 93	5/2/2022	Nyctalus leisleri
Bat Eco Services	005039 38112	305 039	2381 12	5/2/2022	Nyctalus leisleri
Bat Eco Services	003402 37668	303 402	2376 68	5/3/2022	Nyctalus leisleri
Bat Eco Services	009113 38161	309 113	2381 61	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	001737 36993	301 737	2369 93	5/3/2022	Nyctalus leisleri
Bat Eco Services	001994 36956	301 994	2369 56	5/3/2022	Nyctalus leisleri
Bat Eco Services	002477 36741	302 477	2367 41	5/3/2022	Nyctalus leisleri
Bat Eco Services	003054 37133	303 054	2371 33	5/3/2022	Nyctalus leisleri



Bat Eco Services	002001 36954	302 001	2369 54	5/3/2022	Nyctalus leisleri
Bat Eco Services	002275 36798	302 275	2367 98	5/3/2022	Nyctalus leisleri
Bat Eco Services	002443 36743	302 443	2367 43	5/3/2022	Nyctalus leisleri
Bat Eco Services	003337 37574	303 337	2375 74	5/3/2022	Nyctalus leisleri
Bat Eco Services	003407 37676	303 407	2376 76	5/3/2022	Nyctalus leisleri
Bat Eco Services	003464 37758	303 464	2377 58	5/3/2022	Nyctalus leisleri
Bat Eco Services	004127 38361	304 127	2383 61	5/3/2022	Nyctalus leisleri
Bat Eco Services	003640 37986	303 640	2379 86	5/3/2022	Nyctalus leisleri
Bat Eco Services	003524 37835	303 524	2378 35	5/3/2022	Nyctalus leisleri
Bat Eco Services	003433 37705	303 433	2377 05	5/3/2022	Nyctalus leisleri
Bat Eco Services	008643 38102	308 643	2381 02	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	010420 37528	310 420	2375 28	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009475 38048	309 475	2380 48	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009543 38020	309 543	2380 20	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009601 38001	309 601	2380 01	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010493 37488	310 493	2374 88	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010493 37490	310 493	2374 90	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010655 37405	310 655	2374 05	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010711 37390	310 711	2373 90	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009110 38167	309 110	2381 67	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	010695 37394	310 695	2373 94	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010396 37539	310 396	2375 39	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	010054 37722	310 054	2377 22	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009657 37979	309 657	2379 79	9/2/2021	Pipistrellus pipistrellus (45kHz)



Bat Eco Services	O09549 38020	309 549	2380 20	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09428 38068	309 428	2380 68	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09557 38014	309 557	2380 14	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09601 38000	309 601	2380 00	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09725 37945	309 725	2379 45	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09772 37931	309 772	2379 31	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10001 37759	310 001	2377 59	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10078 37710	310 078	2377 10	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10168 37659	310 168	2376 59	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10492 37488	310 492	2374 88	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10539 37470	310 539	2374 70	9/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10568 37449	310 568	2374 49	9/2/2021	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10286 37597	310 286	2375 97	9/2/2021	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	O09773 37931	309 773	2379 31	9/2/2021	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	O10659 37398	310 659	2373 98	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09597 38000	309 597	2380 00	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09677 37975	309 677	2379 75	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09759 37929	309 759	2379 29	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09773 37929	309 773	2379 29	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O10402 37534	310 402	2375 34	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09831 37888	309 831	2378 88	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	O09577 38006	309 577	2380 06	#####	Pipistrellus pipistrellus (45kHz)



Bat Eco Services	009109 38167	309 109	2381 67	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	009773 37927	309 773	2379 27	#####	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009118 38162	309 118	2381 62	5/2/2022	Myotis daubentonii,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Bat Eco Services	009107 38159	309 107	2381 59	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009112 38161	309 112	2381 61	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	009104 38172	309 104	2381 72	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009108 38169	309 108	2381 69	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009105 38162	309 105	2381 62	5/2/2022	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Bat Eco Services	009109 38161	309 109	2381 61	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009107 38165	309 107	2381 65	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009108 38167	309 108	2381 67	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	008368 38034	308 368	2380 34	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	006856 37554	306 856	2375 54	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	006529 37639	306 529	2376 39	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	005373 37974	305 373	2379 74	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009106 38163	309 106	2381 63	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009114 38159	309 114	2381 59	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009107 38162	309 107	2381 62	5/2/2022	Myotis daubentonii,Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009112 38167	309 112	2381 67	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009106 38164	309 106	2381 64	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	008716 38120	308 716	2381 20	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	007718 37829	307 718	2378 29	5/2/2022	Pipistrellus pipistrellus (45kHz)



Bat Eco Services	007432 37702	307 432	2377 02	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	007132 37599	307 132	2375 99	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	006907 37566	306 907	2375 66	5/2/2021	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	006043 37807	306 043	2378 07	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	005103 38086	305 103	2380 86	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009108 38161	309 108	2381 61	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	009111 38162	309 111	2381 62	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	009102 38159	309 102	2381 59	5/2/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	005350 37984	305 350	2379 84	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	003398 37663	303 398	2376 63	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003288 37490	303 288	2374 90	5/3/2022	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Eco Services	002760 36803	302 760	2368 03	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003153 37293	303 153	2372 93	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003558 37888	303 558	2378 88	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	004616 38257	304 616	2382 57	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	004982 38138	304 982	2381 38	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003568 37896	303 568	2378 96	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003168 37309	303 168	2373 09	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	001877 36993	301 877	2369 93	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	001977 36963	301 977	2369 63	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	002210 36838	302 210	2368 38	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003001 37063	303 001	2370 63	5/3/2022	Pipistrellus pipistrellus (45kHz)



Bat Eco Services	003010 37077	303 010	2370 77	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003040 37121	303 040	2371 21	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003162 37305	303 162	2373 05	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003634 37989	303 634	2379 89	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003993 38321	303 993	2383 21	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	004243 38370	304 243	2383 70	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	004869 38180	304 869	2381 80	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003593 37928	303 593	2379 28	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003158 37296	303 158	2372 96	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	002541 36741	302 541	2367 41	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	001830 36995	301 830	2369 95	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003549 37876	303 549	2378 76	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	003690 38044	303 690	2380 44	5/3/2022	Pipistrellus pipistrellus (45kHz)
Bat Eco Services	009109 38162	309 109	2381 62	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	009105 38164	309 105	2381 64	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	010180 37659	310 180	2376 59	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009903 37835	309 903	2378 35	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009692 37968	309 692	2379 68	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009325 38104	309 325	2381 04	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009521 38028	309 521	2380 28	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009684 37968	309 684	2379 68	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009796 37921	309 796	2379 21	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	009917 37822	309 917	2378 22	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	010146 37673	310 146	2376 73	9/2/2021	Pipistrellus pygmaeus



Bat Eco Services	O10151 37671	310 151	2376 71	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10848 37396	310 848	2373 96	9/2/2021	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	O10849 37391	310 849	2373 91	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10948 37413	310 948	2374 13	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10226 37632	310 226	2376 32	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09711 37959	309 711	2379 59	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09706 37962	309 706	2379 62	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09329 38105	309 329	2381 05	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09329 38101	309 329	2381 01	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09519 38032	309 519	2380 32	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09592 38000	309 592	2380 00	9/2/2021	
Bat Eco Services	O09592 38000	309 592	2380 00	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09600 37999	309 600	2379 99	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09601 37999	309 601	2379 99	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09676 37973	309 676	2379 73	9/2/2021	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	O09828 37893	309 828	2378 93	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09857 37871	309 857	2378 71	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O09922 37818	309 922	2378 18	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10028 37741	310 028	2377 41	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10079 37710	310 079	2377 10	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10168 37660	310 168	2376 60	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10166 37657	310 166	2376 57	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10241 37619	310 241	2376 19	9/2/2021	Pipistrellus pygmaeus



Bat Eco Services	O10491 37487	310 491	2374 87	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10569 37449	310 569	2374 49	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10586 37440	310 586	2374 40	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10747 37392	310 747	2373 92	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10849 37394	310 849	2373 94	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10916 37405	310 916	2374 05	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10160 37653	310 160	2376 53	9/2/2021	Pipistrellus pygmaeus
Bat Eco Services	O10160 37653	310 160	2376 53	#####	Pipistrellus pygmaeus
Bat Eco Services	O10752 37385	310 752	2373 85	#####	Pipistrellus pygmaeus
Bat Eco Services	O10851 37391	310 851	2373 91	#####	
Bat Eco Services	O09876 37855	309 876	2378 55	#####	Pipistrellus pygmaeus
Bat Eco Services	O09415 38071	309 415	2380 71	#####	Pipistrellus pygmaeus
Bat Eco Services	O09325 38109	309 325	2381 09	#####	Pipistrellus pygmaeus
Bat Eco Services	O09426 38066	309 426	2380 66	#####	Pipistrellus pygmaeus
Bat Eco Services	O09514 38031	309 514	2380 31	#####	Pipistrellus pygmaeus
Bat Eco Services	O09515 38033	309 515	2380 33	#####	Pipistrellus pygmaeus
Bat Eco Services	O09677 37974	309 677	2379 74	#####	Pipistrellus pygmaeus
Bat Eco Services	O09756 37929	309 756	2379 29	#####	Pipistrellus pygmaeus
Bat Eco Services	O09775 37935	309 775	2379 35	#####	Pipistrellus pygmaeus
Bat Eco Services	O09855 37868	309 855	2378 68	#####	Pipistrellus pygmaeus
Bat Eco Services	O10001 37757	310 001	2377 57	#####	Pipistrellus pygmaeus
Bat Eco Services	O10161 37654	310 161	2376 54	#####	Pipistrellus pygmaeus
Bat Eco Services	O08531 38074	308 531	2380 74	5/2/2022	Pipistrellus pygmaeus



Bat Eco Services	009103 38157	309 103	2381 57	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Eco Services	007789 37851	307 789	2378 51	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	005742 37884	305 742	2378 84	5/2/2022	Pipistrellus pygmaeus
Bat Eco Services	004155 38360	304 155	2383 60	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	004744 38222	304 744	2382 22	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003833 38193	303 833	2381 93	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003675 38029	303 675	2380 29	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003250 37432	303 250	2374 32	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	002590 36749	302 590	2367 49	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	002423 36744	302 423	2367 44	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	002951 36988	302 951	2369 88	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003328 37561	303 328	2375 61	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003540 37865	303 540	2378 65	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003760 38133	303 760	2381 33	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	004701 38231	304 701	2382 31	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	004011 38324	304 011	2383 24	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003547 37866	303 547	2378 66	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003338 37567	303 338	2375 67	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	003180 37326	303 180	2373 26	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	002711 36783	302 711	2367 83	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	002005 36953	302 005	2369 53	5/3/2022	Pipistrellus pygmaeus
Bat Eco Services	001506 36985	301 506	2369 85	5/2/2022	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Plecotus



					auritus, Myotis daubentonii
Bat Eco Services	006243 37733	306 243	2377 33	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii
Bat Eco Services	002326 36768	302 326	2367 68	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii
Bat Eco Services	005075 38089	305 075	2380 89	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
Bat Eco Services	008808 38166	308 808	2381 66	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
Bat Eco Services	007731 37833	307 731	2378 33	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Pipistrellus nathusii
Bat Eco Services	007187 37607	307 187	2376 07	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii, Pipistrellus nathusii
Bat Eco Services	003597 37944	303 597	2379 44	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii, Pipistrellus nathusii
Bat Eco Services	005601 37911	305 601	2379 11	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii, Pipistrellus nathusii



Bat Eco Services	O03096 37227	303 096	2372 27	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii, Pipistrellus nathusii
Bat Eco Services	O04468 38296	304 468	2382 96	5/2/2022	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii, Pipistrellus nathusii
Bat Survey - Scott Cawley	N97332 8	297 300	2328 00	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis daubentonii, Myotis nattereri
Bat Survey - Scott Cawley	O05327 4	305 300	2274 00	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz)
Bat Survey - Scott Cawley	O11735 8	311 700	2358 00	2007-06-00	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus nathusii, Plecotus auritus, Nyctalus leisleri, Myotis nattereri, Myotis daubentonii, Myotis mystacinus, Myotis mystacinus/brandtii
Bat Survey - Scott Cawley	O11735 8	311 700	2358 00	2008-00-00	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus nathusii, Plecotus auritus, Nyctalus leisleri, Myotis nattereri, Myotis daubentonii, Myotis spp., Myotis mystacinus/brandtii
Bat Survey - Scott Cawley	O09833 1	309 800	2331 00	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)



Bat Survey - Scott Cawley	O040298	304000	229800	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O135329	313500	232900	#####	Pipistrellus spp. (45kHz/55kHz)
Bat Survey - Scott Cawley	O1565834626	315658	234626	#####	Nyctalus leisleri
Bat Survey - Scott Cawley	O109398	310900	239800	8/2/2005	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O148338	314800	233800	2006-07-00	Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O044305	304400	230500	5/1/2006	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
Bat Survey - Scott Cawley	O055383	305500	238300	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O138394	313800	239400	9/5/2006	Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O138275	313800	227500	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	N979333	297900	233300	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii, Myotis nattereri
Bat Survey - Scott Cawley	N979333	297900	233300	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Myotis spp.
Bat Survey - Scott Cawley	N979333	297900	233300	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Myotis nattereri, Myotis daubentonii, Nyctalus leisleri
Bat Survey - Scott Cawley	O092393	309200	239300	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus



Bat Survey - Scott Cawley	O148241	314800	224100	#####	Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O159330	315900	233000	2009-05-00	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O125373	312500	237300	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O161304	316100	230400	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O120357	312000	235700	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Myotis mystacinus, Myotis daubentonii, Plecotus auritus, Myotis spp., Pipistrellus nathusii
Bat Survey - Scott Cawley	O112360	311200	236000	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O112360	311200	236000	#####	Nyctalus leisleri
Bat Survey - Scott Cawley	O113344	311300	234400	5/8/2007	Nyctalus leisleri, Pipistrellus spp. (45kHz/55kHz)
Bat Survey - Scott Cawley	O094354	309400	235400	#####	Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O088364	308800	236400	#####	Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O097364	309700	236400	8/5/2007	Nyctalus leisleri, Pipistrellus spp. (45kHz/55kHz), Myotis spp.
Bat Survey - Scott Cawley	O104368	310400	236800	#####	Pipistrellus pygmaeus
Bat Survey - Scott Cawley	O117358	311700	235800	2008-06-00	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus nathusii, Plecotus auritus, Nyctalus leisleri, Myotis nattereri, Myotis daubentonii, Myotis mystacinus/brandtii, Myotis spp.



Bat Survey - Scott Cawley	N998287	299800	228700	#####	Pipistrellus pygmaeus, Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Unidentified bat
Bat Survey - Scott Cawley	O152315	315200	231500	#####	Nyctalus leisleri, Pipistrellus spp. (45kHz/55kHz)
Bat Survey - Scott Cawley	O148403	314800	240300	9/7/2010	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Pipistrellus spp. (45kHz/55kHz)
Bat Survey - Scott Cawley	O145274	314500	227400	9/9/2010	Nyctalus leisleri
Bat Survey - Scott Cawley	N994367	299400	236700	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis spp., Pipistrellus spp. (45kHz/55kHz), Myotis daubentonii
Bat Survey - Scott Cawley	O130273	313000	227300	#####	Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O077311	307700	231100	6/9/2010	Pipistrellus pygmaeus, Nyctalus leisleri
Bat Survey - Scott Cawley	O037343	303700	234300	#####	Pipistrellus spp. (45kHz/55kHz), Unidentified bat, Myotis daubentonii, Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O034266	303400	226600	#####	Myotis spp., Pipistrellus spp. (45kHz/55kHz), Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O142401	314200	240100	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Unidentified bat, Pipistrellus spp. (45kHz/55kHz)
Bat Survey - Scott Cawley	O062317	306200	231700	9/5/2011	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	O1215437466	312154	237466	#####	Myotis daubentonii, Pipistrellus pipistrellus (45kHz), Pipistrellus



					pygmaeus,Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri
Bat Survey - Scott Cawley	O105269	310500	226900	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Myotis daubentonii,Nyctalus leisleri
Bat Survey - Scott Cawley	O023414	302300	241400	5/1/2014	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri,Myotis mystacinus/brandtii
Bat Survey - Scott Cawley	O0353731846	303537	231846	#####	Pipistrellus pygmaeus,Myotis daubentonii
Bat Survey - Scott Cawley	o1523740266	315237	240266	#####	Nyctalus leisleri
Bat Survey - Scott Cawley	o1520140897	315201	240897	#####	Nyctalus leisleri
Bat Survey - Scott Cawley	o1580840020	315808	240020	9/6/2016	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	o1538839852	315388	239852	#####	Nyctalus leisleri
Bat Survey - Scott Cawley	o1561440111	315614	240111	9/6/2016	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	o1580539689	315805	239689	9/6/2016	Unidentified bat,Pipistrellus pipistrellus (45kHz)
Bat Survey - Scott Cawley	o1489840369	314898	240369	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri,Pipistrellus pygmaeus
Bat Survey - Scott Cawley	o0378132156	303781	232156	#####	
Bat Surveys - Tina Aughney	O1627632173	316276	232173	9/7/2007	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Bat Surveys - Tina Aughney	O1400029000	314000	229000	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri,Myotis spp.,Myotis daubentonii



Bat Surveys - Tina Aughney	O15000 29000	315 000	2290 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri, Myotis spp., Myotis daubentonii
Bat Surveys - Tina Aughney	O16000 30000	316 000	2300 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri, Myotis spp., Myotis daubentonii
Bat Surveys - Tina Aughney	O02000 39000	302 000	2390 00	5/2/2007	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis spp., Myotis nattereri, Plecotus auritus
Bat Surveys - Tina Aughney	O02000 40000	302 000	2400 00	5/2/2007	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis spp., Myotis nattereri, Plecotus auritus
Bat Surveys - Tina Aughney	O04000 38000	304 000	2380 00	5/2/2007	Myotis daubentonii, Nyctalus leisleri, Pipistrellus pygmaeus
Bat Surveys - Tina Aughney	O03000 38000	303 000	2380 00	5/2/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis spp.
Bat Surveys - Tina Aughney	O03000 39000	303 000	2390 00	5/2/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Myotis spp.
Bat Surveys - Tina Aughney	O02000 41000	302 000	2410 00	5/2/2007	Nyctalus leisleri, Myotis nattereri, Myotis spp., Pipistrellus pygmaeus
Bat Surveys - Tina Aughney	O13000 29000	313 000	2290 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis



					daubentonii, Plecotus auritus
Bat Surveys - Tina Aughney	O13000 29000	313 000	2290 00	#####	Myotis daubentonii, Pipistrellus pipistrellus (45kHz), Myotis mystacinus/brandtii, Pipistrellus pygmaeus, Nyctalus leisleri
Bat Surveys - Tina Aughney	O13000 29000	313 000	2290 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii
Bat Surveys - Tina Aughney	O08000 32000	308 000	2320 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
Bat Surveys - Tina Aughney	N97000 33000	297 000	2330 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
Bat Surveys - Tina Aughney	O03000 35000	303 000	2350 00	#####	Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Plecotus auritus
Bat Surveys - Tina Aughney	N9734	297 000	2340 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis spp., Plecotus auritus
Bat Surveys - Tina Aughney	O0528	305 000	2280 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Surveys - Tina Aughney	O06491 31443	306 491	2314 43	#####	Pipistrellus pygmaeus, Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Bat Surveys - Tina Aughney	O00727 9	300 700	2279 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Bat Surveys - Tina Aughney	O00727 9	300 700	2279 00	#####	Pipistrellus pygmaeus, Nyctalus leisleri
Bat Surveys - Tina Aughney	O0528	305 000	2280 00	#####	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri



Bat Surveys - Tina Aughney	O10580 25366	310 580	2253 66	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis spp.
Bat Surveys - Tina Aughney	O10150 25329	310 150	2253 29	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Surveys - Tina Aughney	O10131 25531	310 131	2255 31	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Surveys - Tina Aughney	O09684 25470	309 684	2254 70	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Bat Surveys - Tina Aughney	N98687 38096	298 687	2380 96	5/4/2017	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis spp.
Bat Surveys - Tina Aughney	N98534 38243	298 534	2382 43	5/4/2017	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis spp.
Bat Surveys - Tina Aughney	O14667 35387	314 667	2353 87	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
BATLAS 2010	O03325 35533	303 325	2355 33	#####	Pipistrellus pygmaeus, Myotis daubentonii
BATLAS 2010	N97842 34085	297 842	2340 85	#####	Unidentified bat, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis spp., Plecotus auritus
BATLAS 2010	O08332 3	308 300	2323 00	#####	Pipistrellus pipistrellus (45kHz)
BATLAS 2010	O1540	315 000	2400 00	8/1/2008	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
BATLAS 2010	O1640	316 000	2400 00	8/1/2008	Pipistrellus pipistrellus (45kHz), Pipistrellus



					pygmaeus, Nyctalus leisleri
BATLAS 2010	O12119 23826	312 119	2238 26	9/4/2007	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri, Myotis spp., Plecotus auritus
BATLAS 2010	O15078 24488	315 078	2244 88	#####	Pipistrellus spp. (45kHz/55kHz)
BATLAS 2010	O1538	315 000	2380 00	8/1/2008	Pipistrellus pipistrellus (45kHz)
BATLAS 2010	O0731	307 000	2310 00	#####	Pipistrellus pygmaeus
BATLAS 2010	O1533	315 000	2330 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
BATLAS 2010	O1633	316 000	2330 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
BATLAS 2010	O0332	303 000	2320 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Plecotus auritus
BATLAS 2010	O0432	304 000	2320 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Plecotus auritus
BATLAS 2010	O06531 2	306 500	2312 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii
BATLAS 2010	O06335 9	306 300	2359 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis spp., Myotis daubentonii
BATLAS 2010	O06236 6	306 200	2366 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
BATLAS 2010	O06638 7	306 600	2387 00	#####	Pipistrellus pygmaeus



BATLAS 2010	O0438	304 000	2380 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
BATLAS 2010	O0537	305 000	2370 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
BATLAS 2010	O0637	306 000	2370 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
BATLAS 2010	O07529 4	307 500	2294 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
BATLAS 2010	O11536 1	311 500	2361 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus nathusii, Myotis nattereri, Myotis mystacinus/brandtii, Myotis daubentonii
BATLAS 2010	O11236 6	311 200	2366 00	#####	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
BATLAS 2010	O09536 2	309 500	2362 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri, Myotis daubentonii
BATLAS 2010	O11736 1	311 700	2361 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
BATLAS 2010	O01036 1	301 000	2361 00	#####	Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
BATLAS 2010	O01636 8	301 600	2368 00	#####	Pipistrellus pygmaeus
BATLAS 2010	O11036 1	311 000	2361 00	#####	Pipistrellus nathusii, Plecotus auritus, Myotis nattereri, Myotis mystacinus/brandtii, Myotis daubentonii



BATLAS 2010	O11934 5	311 900	2345 00	#####	Pipistrellus spp. (45kHz/55kHz)
BATLAS 2010	O10336 2	310 300	2362 00	#####	Pipistrellus spp. (45kHz/55kHz)
BATLAS 2010	O12035 3	312 000	2353 00	#####	Pipistrellus spp. (45kHz/55kHz), Myotis daubentonii
BATLAS 2010	O10736 2	310 700	2362 00	#####	Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri
BATLAS 2010	O11534 4	311 500	2344 00	#####	Pipistrellus spp. (45kHz/55kHz), Plecotus auritus, Nyctalus leisleri
BATLAS 2010	O10834 7	310 800	2347 00	#####	Plecotus auritus
BATLAS 2010	O11035 6	311 000	2356 00	#####	Plecotus auritus
BATLAS 2010	O11236 2	311 200	2362 00	#####	Nyctalus leisleri
BATLAS 2010	O09935 3	309 900	2353 00	#####	Myotis nattereri
BATLAS 2010	O10035 8	310 000	2358 00	#####	Myotis nattereri
BATLAS 2010	O12672 33130	312 672	2331 30	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus spp. (45kHz/55kHz), Nyctalus leisleri
BATLAS 2010	O13628 9	313 600	2289 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Pipistrellus spp. (45kHz/55kHz), Myotis spp.
BATLAS 2020	N97144 29512	297 144	2295 12	#####	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Myotis daubentonii
BATLAS 2020	N97373 32921	297 373	2329 21	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Myotis nattereri
BATLAS 2020	N98011 33193	298 011	2331 93	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Plecotus auritus



BATLAS 2020	O06253 22065	306 253	2220 65	7/6/2017	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
BATLAS 2020	O03086 22819	303 086	2228 19	8/3/2017	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
BATLAS 2020	O02358 23502	302 358	2235 02	8/3/2017	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
BATLAS 2020	O08981 24452	308 981	2244 52	7/7/2017	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Myotis daubentonii
BATLAS 2020	O05750 25322	305 750	2253 22	7/6/2017	Pipistrellus pipistrellus (45kHz)
BATLAS 2020	O04152 26984	304 152	2269 84	8/3/2017	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
BATLAS 2020	O01504 27872	301 504	2278 72	8/3/2017	Pipistrellus pipistrellus (45kHz)
BATLAS 2020	O07579 29903	307 579	2299 03	7/6/2017	
BATLAS 2020	O07007 30999	307 007	2309 99	9/2/2016	
BATLAS 2020	O06734 32176	306 734	2321 76	9/2/2016	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
BATLAS 2020	O02906 32235	302 906	2322 35	8/6/2016	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
BATLAS 2020	O11518 32922	311 518	2329 22	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus nathusii
BATLAS 2020	O03947 34307	303 947	2343 07	9/2/2016	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
BATLAS 2020	O10731 34719	310 731	2347 19	#####	Pipistrellus nathusii
BATLAS 2020	O03366 35510	303 366	2355 10	8/6/2016	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
BATLAS 2020	O06206 35901	306 206	2359 01	8/6/2016	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii
BATLAS 2020	O10966 36098	310 966	2360 98	#####	Pipistrellus nathusii
BATLAS 2020	O10287 36267	310 287	2362 67	#####	Pipistrellus pipistrellus (45kHz)



BATLAS 2020	O10613 36281	310 613	2362 81	#####	Pipistrellus pipistrellus (45kHz)
BATLAS 2020	O03915 38085	303 915	2380 85	8/6/2016	Nyctalus leisleri
BATLAS 2020	O06665 40397	306 665	2403 97	#####	
Bats in Dublin's City Centre Parks and Waterways	O16033 4	316 000	2334 00	7/5/2000	Myotis mystacinus/brandtii
Bats in Dublin's City Centre Parks and Waterways	O15235 5	315 200	2355 00	#####	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Bats in Dublin's City Centre Parks and Waterways	O1632	316 000	2320 00	#####	Pipistrellus pipistrellus (45kHz)
Bats in Dublin's City Centre Parks and Waterways	O16033 4	316 000	2334 00	#####	Pipistrellus pygmaeus
Buildings At Risk Grant, The Heritage Council	O03900 26700	303 900	2267 00	#####	Pipistrellus pipistrellus (45kHz)
Chris Peppiatt	O03230 34970	303 230	2349 70	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Plecotus auritus
Daubentons bat rabies sampling	O14464 27237	314 464	2272 37	7/3/2021	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Dublin Bat Group surveys	O1137	311 000	2370 00	9/8/1999	Myotis daubentonii,Pipistrellus pygmaeus
Dublin Bat Group surveys	O1526	315 000	2260 00	#####	Nyctalus leisleri
Dublin Bat Group surveys	O16033 4	316 000	2334 00	#####	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Dublin Bat Group surveys	O1137	311 000	2370 00	9/8/1999	Nyctalus leisleri
Dublin Bat Group surveys	O16033 4	316 000	2334 00	7/5/2000	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Dublin Bat Group surveys	O15929 8	315 900	2298 00	#####	Pipistrellus pygmaeus
Dublin Bat Group surveys	N98236 7	298 200	2367 00	2/4/2001	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Dublin Bat Group Telephone and Follow-up Surveys	O09000 37000	309 000	2370 00	4/7/2002	Pipistrellus pipistrellus (45kHz),Pipistrellus



					pygmaeus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O10000 37000	310 000	2370 00	4/7/2002	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O04000 32000	304 000	2320 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O05000 32000	305 000	2320 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O13000 34000	313 000	2340 00	#####	Pipistrellus pipistrellus (45kHz)
EIS and Road Surveys - Conor Kelleher	O09000 32000	309 000	2320 00	7/8/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O03000 32000	303 000	2320 00	7/8/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O07000 32000	307 000	2320 00	7/8/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O04000 32000	304 000	2320 00	7/8/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O08000 32000	308 000	2320 00	7/8/2007	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O05000 32000	305 000	2320 00	7/8/2007	Pipistrellus pygmaeus, Pipistrellus pipistrellus



					(45kHz), Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O10000 32000	310 000	2320 00	7/8/2007	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O06000 32000	306 000	2320 00	7/8/2007	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O02000 31000	302 000	2310 00	#####	Myotis daubentonii, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O03000 31000	303 000	2310 00	#####	Myotis daubentonii, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O03000 32000	303 000	2320 00	#####	Myotis daubentonii, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O07000 35000	307 000	2350 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O09000 38000	309 000	2380 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
EIS and Road Surveys - Conor Kelleher	O07000 32000	307 000	2320 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Myotis daubentonii
EIS and Road Surveys - Conor Kelleher	O07000 35000	307 000	2350 00	#####	Myotis daubentonii



EIS and Road Surveys - Conor Kelleher	O11000 27000	311 000	2270 00	#####	Pipistrellus pygmaeus, Myotis daubentonii
EIS and Road Surveys - Conor Kelleher	O15000 25000	315 000	2250 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
EIS and Road Surveys - Conor Kelleher	O15000 26000	315 000	2260 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
EIS and Road Surveys - Conor Kelleher	O16000 40000	316 000	2400 00	#####	Pipistrellus pygmaeus, Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
EIS surveys - Brian Keeley	O16000 26000	316 000	2260 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Nyctalus leisleri
EIS surveys - Brian Keeley	O15550 26200	315 550	2262 00	6/1/2004	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Myotis mystacinus, Myotis mystacinus/brandtii
EIS surveys - Brian Keeley	O04500 38150	304 500	2381 50	9/3/2005	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis mystacinus, Myotis daubentonii
EIS surveys - Brian Keeley	O02800 35800	302 800	2358 00	9/1/2005	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
EIS surveys - Brian Keeley	O09800 35800	309 800	2358 00	9/2/2005	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis mystacinus
EIS surveys - Brian Keeley	O05500 36800	305 500	2368 00	9/9/2005	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii, Nyctalus leisleri, Myotis nattereri, Plecotus auritus



EIS surveys - Brian Keeley	O07800 35800	307 800	2358 00	9/1/2005	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Plecotus auritus, Myotis daubentonii
EIS surveys - Brian Keeley	O12800 37400	312 800	2374 00	6/6/2006	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
EIS surveys - Brian Keeley	N96500 38400	296 500	2384 00	2/1/2004	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis mystacinus/brandtii, Plecotus auritus, Myotis daubentonii
EIS surveys - Brian Keeley	N96500 38401	296 500	2384 01	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii
EIS surveys - Brian Keeley	O16200 41200	316 200	2412 00	6/2/2006	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
EIS surveys - Brian Keeley	N99650 28800	299 650	2288 00	#####	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
EIS surveys - Brian Keeley	O07600 35200	307 600	2352 00	#####	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
EIS surveys - Brian Keeley	O07787 29763	307 787	2297 63	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Plecotus auritus
EIS surveys - Brian Keeley	O12184 37790	312 184	2377 90	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
EIS surveys - Brian Keeley	O10565 37449	310 565	2374 49	5/4/2013	Myotis daubentonii, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
EIS Surveys - Caroline Shiel	O11000 35500	311 000	2355 00	6/4/2007	Nyctalus leisleri
EIS Surveys - Niamh Roche	O01036 0	301 000	2360 00	7/8/2002	Pipistrellus pygmaeus, Pipistrellus pipistrellus



					(45kHz),Nyctalus leisleri,Plecotus auritus
EIS Surveys - Niamh Roche	O02300 34900	302 300	2349 00	8/2/2007	Pipistrellus pipistrellus (45kHz)
EIS Surveys - Niamh Roche	O02300 35200	302 300	2352 00	8/2/2007	Nyctalus leisleri
EIS Surveys - Niamh Roche	O02200 34900	302 200	2349 00	8/2/2007	Myotis spp.
EIS Surveys - Niamh Roche	O02300 35200	302 300	2352 00	8/2/2007	Pipistrellus pygmaeus
Faith Wilson	O0836	308 000	2360 00	#####	Myotis spp.,Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri
Faith Wilson	O1632	316 000	2320 00	#####	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Pipistrellus nathusii
Faith Wilson	O14933 3	314 900	2333 00	8/1/2007	Nyctalus leisleri
Faith Wilson	O0133	301 000	2330 00	9/1/2009	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Faith Wilson	O0233	302 000	2330 00	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Plecotus auritus
Faith Wilson	O1424	314 000	2240 00	9/2/2009	Nyctalus leisleri,Plecotus auritus,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Myotis nattereri,Myotis spp.
Faith Wilson	O04733 8	304 700	2338 00	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Faith Wilson	O0640	306 000	2400 00	#####	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Faith Wilson	O06640 3	306 600	2403 00	#####	Myotis daubentonii,Pipistrellus pygmaeus



Faith Wilson	00739	307 000	2390 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri
Faith Wilson	008338 9	308 300	2389 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Myotis daubentonii
Faith Wilson	008738 4	308 700	2384 00	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus, Nyctalus leisleri, Myotis daubentonii, Plecotus auritus
Faith Wilson	009538 0	309 500	2380 00	#####	Pipistrellus pipistrellus (45kHz)
Faith Wilson	014526 7	314 500	2267 00	#####	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri, Pipistrellus pygmaeus
Faith Wilson	006731 4	306 700	2314 00	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
John Curtin	006397 35774	306 397	2357 74	#####	Myotis daubentonii
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/1/2021	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/2/2021	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/3/2021	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/4/2021	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/5/2021	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/6/2021	Nyctalus leisleri
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/7/2021	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/8/2021	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri
Neighbourhood Bats 2021	014464 27237	314 464	2272 37	7/9/2021	Pipistrellus pipistrellus (45kHz), Nyctalus leisleri



Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Myotis spp.,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus nathusii,Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri,Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Nyctalus



					leisleri,Pipistrellus pygmaeus,Pipistrellus nathusii
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/1/2021	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/2/2021	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/3/2021	Nyctalus leisleri,Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/6/2021	Pipistrellus pipistrellus (45kHz),Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/5/2021	Nyctalus leisleri,Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/4/2021	Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/7/2021	Nyctalus leisleri,Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/8/2021	Pipistrellus pipistrellus (45kHz),Pipistrellus



					pygmaeus, Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	8/9/2021	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Plecotus auritus, Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri
Neighbourhood Bats 2021	O14464 27237	314 464	2272 37	#####	Nyctalus leisleri
Niamh Roche	O1526	315 000	2260 00	#####	Nyctalus leisleri, Pipistrellus pipistrellus (45kHz), Pipistrellus pygmaeus
Niamh Roche	O08834 9	308 800	2349 00	#####	Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz)