

Phase 2 bat survey results of club house

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY					
SURVEY LOCATION:	Cambridge golf course Club House	SURVEYORS:	Mike Deane and Jenny Edwards	DATE:	28/07/2011
TEMP AT START:	20°C	SUNSET:	20:57	START TIME:	20:27
TEMP AT END:	17°C	CLOUD COVER (oktas):	3/8	END TIME:	23:00
WIND (bft):	1	RAINFALL:	0	WEATHER:	Sunny spells
TIME	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.		
21:25-21:28	Common pipistrelle	7	Two pipistrelles emerged from under the eaves on the northern elevation, and five emerged from under the barge board on the north western gable end.		
21:37	Common pipistrelle	1	Emerged from under the barge board on the north western gable end.		
21:37-22:00	Common pipistrelle	3+	Constant foraging activity around the house and the northern hedgerow.		

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY

SURVEY LOCATION:	Cambridge golf course Club House	SURVEYORS:	Oliver Reeves, Mike Deane and Johanna Boas	DATE:	03/08/2011
TEMP AT START:	22.4c	SUNSET:	20:45	START TIME:	20:05
TEMP AT END:	21.3	CLOUD COVER (oktas):	4/8	END TIME:	23:35
WIND (bft):	0	RAINFALL:	0	WEATHER:	Sunny spells
EDIROL NO:	2	EDIROL TIME:		ADDITIONAL INFO:	

TIME	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.
21:10	Common pipistrelle	1	Emergence from the northern apex of the building, via a gap between the brickwork and barge board at the apex, and then flew south west.
21:15	Common pipistrelle	1	Brief pass, not seen.
21:16	Common pipistrelle	1	Emergence from the northern apex of the building, same position as previously.
21:21	Common pipistrelle	1	Emergence from the northern apex of the building, same position as previously.
21:23	Common pipistrelle	2	Two bats emerged one after another from the same point at the northern apex.
21:23	Common pipistrelle	1	Emergence from the northern apex of the building, same position as before.
21:25	Common pipistrelle	1	Brief pass along the hedgerow on the western border of the site.
21:26	Common pipistrelle	1	Emerged from a hole in the brickwork where it meets the soffit
21:27	Common pipistrelle	1	Emergence from the northern apex of the building, same position as before.
21:29	Common pipistrelle	1	Brief pass along the hedgerow on the western border of the site.
21:39	Soprano pipistrelle	1	Foraging from north to south along the western boundary of the site.
21:49	Natterer's	1	Came from the north heading south along the hedgerow.
22:02	Long-eared	1	Not echo locating, seen flying over the south of the building.
22:10	Common pipistrelle	1	Foraging from north to south along the western boundary of the site, above the hedgerow.
22:14	Common pipistrelle	1	Foraging from north to south along the western boundary of the site, above the hedgerow.
22:16	Common pipistrelle	1	Foraging from north to south along the western boundary of the site, above the hedgerow.
22:30	Common pipistrelle	1	Foraging from north to south along the western boundary of the site, above the hedgerow.

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY

SURVEY LOCATION:	Cambridge golf course Club House	SURVEYORS:	Oliver Reeves, Mike Deane and Johanna Boas	DATE:	04/08/2011
TEMP AT START:	19.7c	SUNRISE:	05:15	START TIME:	03:15
TEMP AT END:	16.1	CLOUD COVER (oktas):	4/8	END TIME:	05:15
WIND (bft):	0	RAINFALL:	0	WEATHER:	Sunny spells
EDIROL NO:	2	EDIROL TIME:		ADDITIONAL INFO:	Light drizzle at the end of the survey.

TIME	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.
03:25	Common pipistrelle	1	Foraging at the north western end of the club house, the south along the hedgerow.
03:30	Common pipistrelle	1	Brief pass, not seen.
03:34	Common pipistrelle	1	Brief pass, not seen.
03:36	Common pipistrelle	1	Brief pass, not seen. Suspected to be foraging along the hedgerow where the majority of the foraging has been happening.
03:40	Common pipistrelle	1	Foraging at the north west of the building, before commuting to the south east.
03:51	Common pipistrelle	1	Foraging at the north west of the building, before commuting to the south east.
03:55	Common pipistrelle	1	Came from the east, headed west over the hedgerow
04:00	Common pipistrelle	1	Foraging along the hedgerow at the western boundary of the site from north to south.
04:05	Serotine and Common pipistrelle	1	Brief pass along the hedgerow, not seen.
04:08	Long-eared	1	Foraging around the building, south end of the building.
04:19	Common pipistrelle	1	Circling around the northern apex of the building.
04:23	Common pipistrelle	1	Circling around the northern apex of the building.
04:25	Common pipistrelle	2	Circling around the northern apex of the building.
04:29	Common pipistrelle	1	Re-entered the building at the northern apex at the peak under the barge board.
04:32	Common pipistrelle	2	Circling around the northern apex of the building.
04:40	Common pipistrelle	3	Circling around the northern apex of the building.
04:40	Common pipistrelle	1	Re-entered the building at the northern apex under the barge board.

04:45	Common pipistrelle	4	Circling around the northern apex of the building.
04:46	Common pipistrelle	1	Re-entered the building at the northern apex under the barge board.
04:49	Common pipistrelle	1	Re-entered the building at the northern apex under the barge board.
04:51	Common pipistrelle	1	Re-entered the building at the northern apex under the barge board.
04:51	Common pipistrelle	3	Circling around the northern apex of the building.
04:55	Common pipistrelle	1	Re-entered the building at the northern apex under the barge board.
05:00	Common pipistrelle	1	Re-entered the building at the northern apex under the barge board.
05:11	Common pipistrelle	1	Re-entered the building at the north eastern corner via hole in the brickwork where it meets the soffit.

Bat transect survey results

Primary Development Area

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY					
SURVEY LOCATION :	Cambridge golf course	SURVEYORS :	Becky Brown, Jenny Edwards (route 1), Becci Smith, Laura Rogers (route 2), Oliver Reeves and Pete Duffy (route 3)	DATE:	13/07/2011
TEMP AT START:	15°C	SUNSET:	21:15	START TIME:	21:15
TEMP AT END:	13°C	CLOUD COVER (oktas):	6/8	END TIME:	23:20
WIND (bft):	2-3	RAINFALL:	nil	WEATHER:	Dry and cloudy
EDIROL NO:	Anabat, songmetre and Edirol	EDIROL TIME:		ADDITIONAL INFO:	Transect routes 1,2 & 3
TIME	Transect number	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.	
21:38-21:42	Transect 1	Common and soprano pipistrelle	2	Foraging around the western boundary along the trees	
22:50	Transect 1	Common pipistrelle	1	Briefly heard along the southern hedgerow	
22:00	Transect 1	Common pipistrelle	1	Foraging along the ash trees	
22:00	Transect 2	Common pipistrelle	1	Brief pass	
22:01	Transect 2	Common pipistrelle	1	Heard foraging along the south of the site but not seen	
22:05	Transect 1	Common pipistrelle	1	Brief pass along the eastern boundary of transect route	
22:05-22:07	Transect 2	Soprano and common pipistrelle, and noctule	3	Pipistrelles foraging over plantation area and brief pass by noctule.	
22:09	Transect 1	Common pipistrelle	1	Foraging along tree line in a north to south direction.	
22:10	Transect 1	Common pipistrelle	1	Brief pass along the eastern boundary of site.	
22:11	Transect 2	Common and soprano pipistrelle	2	Heard foraging but not seen.	
22:13	Transect 1	Common pipistrelle	1	Brief tickle along the eastern edge of transect route heading towards club house.	

22:13	Transect 2	Nathusius' pipistrelle	1	Foraging along hedgerow along centre of site.
22:20	Transect 1	Common pipistrelle	1	Commuting across the club house heading north-east
22:20	Transect 2	Common & Nathusius' pipistrelle	2	Foraging above grassy bank beside hedge along the east of golf course.
22:21-22:25	Transect 2	Common & Nathusius' pipistrelle	2-3	Foraging and social calls over hedge bordering east of site
22:25	Transect 1	Common pipistrelle	1	Brief pass along western edge of driving range.
22:26-22:27	Transect 1	Common & Nathusius' pipistrelle	1	Flying along hedge adjacent to driving range, heading east
22:27	Transect 2	Common pipistrelle	1	Briefly heard along track through driving range
22:29	Transect 2	Common pipistrelle	1	Heard foraging but not seen.
22:30	Transect 1	Common pipistrelle	1	Foraging round trees in the southern field in the south west corner of golf course.
22:31 – 22:38	Transect 2	Common pipistrelle	4	Four individual fly bys headed west along southern hedge
22:40	Transect 1	Common and Nathusius' pipistrelle	2	Heard not seen
22:40	Transect 2	Common pipistrelle	2	Foraging over pond east of course
22:41 – 22:59	Transect 2	Common pipistrelle	2+	At least 2 bats heard foraging along the central hedge, heading towards the gravel path in a northerly direction.
22:55	Transect 1	Common pipistrelle	1	Briefly heard
23:00-23:10	Transect 1	Common pipistrelle, Daubenton's and Natterer's	3+	Foraging over lake.
23:15	Transect 1	Common pipistrelle	1	Heard foraging in car park by site entrance.

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY					
SURVEY LOCATION :	Cambridge golf course	SURVEYORS:	Jenny Edwards and Hannah Stebbings (transect 1), Becci Smith and Laura Rogers (transect 2), Oliver Reeves and Johanna Boas (transect 3)	DATE:	04/08/2011
TEMP AT START:	18.8°C	SUNSET:	20:45	START TIME:	20:45
TEMP AT END:	17°C	CLOUD COVER (oktas):	8/8	END TIME:	22:45
WIND (bft):	2	RAINFALL:	Nil	WEATHER:	Mild, Sunny spells.
EDIROL NO:	Edirol and Anabat	EDIROL TIME:		ADDITIONAL INFO:	Transect routes 1,2 & 3

TIME	Transect number	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.
21:26 – 21:31	2	Noctule	1	Feeding over long grass to the south west of site.
21:29	1	Common pipistrelle	1	Commuting at north western end of golf course.
21:36	1	Common pipistrelle	1	Commuting along woodland strip on the western boundary heading north.
21:37	1	Daubenton's	1	Foraging over the lake.
21:46	1	Serotine	1	Commuting along the eastern boundary.
21:49 – 22:00	2	Common and soprano pipistrelle	2-3	Foraging along hedge to east of site.
21:50	1	Common pipistrelle	1	Commuting along the eastern boundary.
21:50	1	Common pipistrelle	1	Foraging along the southern boundary heading west.
21:54	2	Serotine	1	Commuting across site heading east.
22:01	2	Serotine	1	Commuting across site heading north.
22:03- 22:07	2	Common pipistrelle	1	Foraging in small wooded area in the centre of the site.
22:05	1	Common and soprano pipistrelle	2	Foraging along scrub south of the driving range.
22:10	1	Daubenton's and common pipistrelle	3+	Foraging over the lake.
22:12	1	Serotine	1	Commuting along the eastern boundary.
22:20	2	Common pipistrelle	1	Brief pass.
22:24	1	Common pipistrelle	1	Foraging along the eastern boundary heading north.
22:32-22:42	2	Common pipistrelle	2	Foraging around hedge

BAT DETECTOR / RE-ENTRY & ACTIVITY SURVEY					
SURVEY LOCATION :	Cambridge golf course	SURVEYORS:	Jenny Edwards and Hannah Stebbings (transect 1), Becci Smith and Laura Rogers (transect 2), Oliver Reeves and Johanna Boas (transect 3)	DATE:	05/08/2011
TEMP AT START:	16.9c	SUNRISE:	05:20	START TIME:	03:16
TEMP AT END:	17c	CLOUD COVER (oktas):	2/8	END TIME:	05:20
WIND (bft):	0	RAINFALL:	Nil	WEATHER:	Overcast but warm
EDIROL NO:	Anabat and Ediol	EDIROL TIME:		ADDITIONAL INFO:	Transect routes 1,2 & 3

TIME	Transect number	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.
03:21	2	Daubenton's	1	Foraging around a pond to the west of site
03:34	1	Common pipistrelle	1	Foraging along the eastern end of driving range heading south.
03:38	1	Common pipistrelle	1	Foraging along the southern boundary near the elm trees.
03:43	1	Common pipistrelle	1	Foraging along the southern boundary heading east.
03:46	1	Common pipistrelle	1	Foraging along the eastern boundary heading north at the corner of Brookfield Farm.
03:56	1	Daubenton's, common and soprano pipistrelle	3+	Foraging around the lake.
04:06	1	Common pipistrelle	2	Foraging along the western corner of the southern field.
04:08	1	Common pipistrelle	2	Foraging along the hedgerow in the southern end of the southern field.
04:10	1	Common pipistrelle	2	Foraging south near the oak trees in the south west corner of the course.
04:13	2	Common pipistrelle	1	Commuting along hedge along western edge of transect route
04:20	1	Soprano pipistrelle	1	Commuting north on the eastern boundary.
04:30	1	Daubenton's & common pipistrelle	4+	Foraging around the lake & along the western boundary heading south.
04:39	1	Common pipistrelle	2	Foraging around trees on southern boundary.

Area of excavation for fill and infrastructure work

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY					
SURVEY LOCATION:	Cambridge (Siverwright land)	SURVEYORS:	Mike Deane & Chris Anderson	DATE:	13/07/2011
TEMP AT START:	15c	SUNSET:	21:15	START TIME:	21:15
TEMP AT END:	13c	CLOUD COVER (oktas):	7/8	END TIME:	23:20
WIND (bft):	0	RAINFALL:	0	WEATHER:	Cloudy and warm.
EDIROL NO:		EDIROL TIME:		ADDITIONAL INFO:	
TIME	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.		
22:07	Common pipistrelle	1	Foraging along the middle of the bridleway		
22:10	Common pipistrelle	1	Foraging along the hedge line of the bridleway, fairly constant.		
22:14	Noctule	1	Brief pass at the south eastern corner of the northern field		
22:16	Common and soprano pipistrelle	2	Foraging throughout the bridleway and along the ditch at the west of the site.		
22:21	Soprano pipistrelle and Myotis (suspected Natterer's)	2	Foraging along the bridleway.		
22:26	Noctule	1	Brief pass near to the small holdings, but not seen		
22:32	Common and soprano pipistrelle	2	Foraging near to the small holdings in the field, then headed north west along the bridleway. Constant foraging along the bridleway throughout the survey.		
22:37	Noctule	1	Brief pass along the bridleway, heading south east.		
22:39	Common pipistrelle and myotis (suspected Natterer's)	2	Foraging along the bridleway, constant bat activity along the bridleway between 22:16 to 22:39.		
22:43	Common and soprano pipistrelle	2	Foraging along the bridleway, heading south east.		
22:45	Noctule	1	Brief pass, not seen.		

BAT DETECTOR / EMERGENCE & ACTIVITY SURVEY

SURVEY LOCATION:	Cambridge (Siverwright land)	SURVEYORS:	Mike Deane & Peter Duffy	DATE:	04/08/2011
TEMP AT START:	18.8°C	SUNSET:	20:45	START TIME:	20:45
TEMP AT END:	17°C	CLOUD COVER (oktas):	8/8	END TIME:	22:45
WIND (bft):	2	RAINFALL:	Nil	WEATHER:	Mild, Sunny spells.
EDIROL NO:	Edirol	EDIROL TIME:		ADDITIONAL INFO:	Transect routes 1,2 & 3

TIME	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.
21:25	Common pipistrelle	1	Commuting north across the site.
21:46	Common pipistrelle	1	Commuting from south to north towards the bridleway.
22:01	Myotis (suspected Natterer's)	1	Foraging along the bridleway.
22:05	Myotis (suspected Natterer's)	1	Foraging along the bridleway.
22:22	Common pipistrelle	1	Constant foraging up and down the bridleway.
22:31	Common pipistrelle	2	Constant foraging up and down the bridleway.
22:33	Common pipistrelle	2	Constant foraging up and down the bridleway.
22:35	Soprano pipistrelle	1	Foraging around the ash trees in the bridleway.
22:41	Myotis (suspected Natterer's)	1	Foraging approximately 200 meters from the ash trees in the bridleway.
22:45	Myotis (suspected Natterer's)	1	Foraging along the bridleway.
22:46	Soprano pipistrelle	1	Foraging and circling around the ash trees halfway along the bridleway.

BAT DETECTOR / RE-ENTRY & ACTIVITY SURVEY

SURVEY LOCATION:	Cambridge (Siverwright land)	SURVEYORS:	Mike Deane & Peter Duffy	DATE:	05/08/2011
TEMP AT START:	16.9c	SUNRISE:	05:20	START TIME:	03:16
TEMP AT END:	17c	CLOUD COVER (oktas):	2/8	END TIME:	05:20
WIND (bft):	0	RAINFALL:	Nil	WEATHER:	Overcast but warm
EDIROL NO:	Anabat and Edirol	EDIROL TIME:		ADDITIONAL INFO:	Transect routes 1,2 & 3

TIME	SPECIES	NUMBER OF BATS	ACTIVITY (behaviour/ commuting/ direction/ foraging/ feeding/ feeding buzzes/ roost/ etc.
04:02	Common pipistrelle	1	Commuting towards the bridleway along the hedge line.
04:12	Myotis (suspected Natterer's)	1	Foraging at the start of the bridleway approximately 300 meters from the caravan park.
04:18	Common pipistrelle	2	Foraging along the hedge line on the edge of the site, approximately 300 meters from the left turn on the bridleway.
04:23	Common pipistrelle	2	Foraging around the group of ash trees in the bridleway.
04:29	Common pipistrelle	1	Foraging along the centre of the bridleway.
04:37	Common pipistrelle	2	Foraging along the centre of the bridleway.
04:39	Soprano pipistrelle	1	Constant foraging along the bridleway and around the ash trees.
04:56	Soprano pipistrelle	1	Observed foraging around the group of ash trees for approximately 18 minutes, then flew into the ash tree where lots of dead wood is present.