

Proposed Housing Development at Holly Cottage, Wrotham Road, Meopham, DA13 0AH

Planning Application

30th August 2021

Planning Application for the demolition of existing Holly Cottage and redundant outbuildings, and the erection of 8no 4 bedroom Dwellings with integral double garages and external car parking, and a new private, gated access road



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30th August 2021

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2.1 Design and Access Statement

30th August 2021

1 Design Principles



The site is located on the Wrotham Road, immediately south of The George Inn (Public House), with the Meopham Secondary school and Leisure Centre complex to its western and southern boundaries. Currently, the dwelling at Willow Tree Farm fronts onto Wrotham Road at the southern end of the road frontage, while Holly Cottage fronts the middle third, and its extended garden is to the northern third facing onto Wrotham Road. Both residential properties currently have their own vehicular access points onto the Wrotham Road. The site sits within the Green Belt, and is adjacent to the southern boundary of "The Street" Conservation Area (to the west of Wrotham Road).

The design proposals are to create a secured cu-de-sac of family dwellings on land made available to the rear of Willow Tree Farm, by the demolition of the existing Holly Cottage, and the use of its current extended gardens to the north. Holly Cottage is proposed to be rebuilt on the northern portion of Wrotham Road, with the new access road created where the Holly Cottage garage access currently sits - this gives suitable sight lines in both directions, for all traffic leaving the development

Early considerations included several important characteristics of the site, which influenced the design development.

- 1 The Wrotham Road street-frontage has 2no dwellings, with potential sight lines further into the site. Additional dwellings facing onto Wrotham Road would only reduce "the openness" of views into the site, and this was considered to be an unacceptable addition to the streetscape.
- 2 The site is surrounded on 3no sides by substantial, and mature, bushes and trees, the overwhelming majority of which are on adjoining land. These provide an almost impenetrable visual barrier, both into the site, and out from it - the site is "private", and as a development, barely noticeable

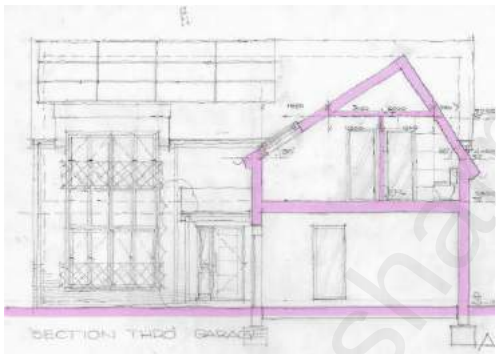




from beyond its perimeter. To further minimise the visual impact of the dwellings to the rear, 3no are substantially located behind the retained Willow Tree Farm, while those behind the relocated Holly Cottage and its detached garage only have minimal visibility from Wrotham Road. To assist with masking the new dwellings, the entrance road is staggered, and planting is included to give a natural visual barrier to the rear of the site.

- 3 "Courtyard" developments, and cul-de-sac developments are not uncommon off Wrotham Road in Meopham, ranging from small scale 5 house development (e.g. just south of Lomar Farm), through to the well established, circa 36 houses, in Pitfield Drive. As an additional feature, it is proposed there are cctv controlled access gates at the entrance to the development - this will enhance both security and safety within the development.
- 4 Detailing/landscaping to the front of the site presents an opportunity to enhance the streetscape view from the south (of Wrotham Road), towards the George Public House. Currently, the small embankment next to The George Inn is unmanaged and overgrown, but by opening up a view to the front corner of The George Inn, this will enhance its visual presence.

Within the site, there is sufficient space to provide a new Holly Cottage, (with a detached double garage), and 7no new 4 bedroom houses with integral double garage and double private parking spaces, (together with additional visitor parking). The repositioning of Holly Cottage, in a style to match Willow Tree Farm, will create "a portal" for the entrance to the new houses to the rear, and will not increase noticeably the impact of the views into the site from what currently exists. The proposed new houses behind the dwellings fronting Wrotham Road are predominantly aligned to minimise their visual intrusion for passers-by, and to maximise the privacy of the occupiers of these dwellings. The entrance road twists, with a landscaping feature to prevent sightlines through to the rear of the site, again to minimise visual intrusion and enhance privacy. The varied orientation of the dwellings creates a courtyard "cluster" around the last 4no dwellings at the end of the cul-de-sac, while a similar number of garage "fronts" create another zone.



The new housing designs within the courtyard are all similar in plan, and similar in their provision, but are adapted to suit both their location and orientation. All will have brick (samples opposite) and roofing variations to create added interest - upper floor fenestration varies to avoid overlooking, and where possible, maximise the benefit of natural sunlight. It is intended that all new dwellings will be constructed to "Passivhaus" standards, complete with solar panels, heat pumps, future-proofing for Electrical Vehicle charging, and "smart" controls and management of systems. All dwellings have dual aspect Living Rooms, so they all benefit from natural sunlight in the primary habitable room.

Roof profiles have been selected to produce both a lowered eaves line, (to lower the visual scale of the development from within the site) and lower ridges than traditional pitched roofs, while at the same time, also producing more interesting ceiling lines within the upper floor rooms and stair landings. Ridge heights for all new dwellings are similar to the existing ridge height of Willow Tree Farm, maintaining a consistent height and scale within the development.

There is significant mature planting immediately beyond the site boundaries to the south, west, and north of the site - they all create an almost impenetrable visual barrier in both directions, and even when "scrub" bushes and minor trees are removed from within the site, privacy will barely be affected. Rear garden depths accord with the required guidelines, and while perimeter paths to the dwellings with a nominal patio area will be incorporated into the design, the final layouts will be left for the home-owners to alter to suit their own particular needs. The private access road will be detailed from a combination of blocks and setts, suitable for accommodating fire tenders and pantechnicons (complete with suitable turning space), with a detail change to car only areas, then private drive parking areas, and pedestrian traffic areas. An integral part of the design, is the landscaping features after the access road enters the site. Small scale trees and bushes will, in the fulness of time, provide a visual barrier to minimise intrusion and maximise privacy.

The replacement Holly Cottage is designed in the style of the current building - a detached chalet bungalow with red tiles to the pitched roof, dormer windows on the upper floors, and hipped roofs to articulate the roof. To the ground floor, walls will be finished in a smooth white render,

[illegible]



Kent County Council Highways have been approached for their initial design consideration, and their response is attached for reference - minor design detail points will be subject to "Conditions", and some points have already been included into the submitted drawings, as opposite - "Courtyard Access"

Buses traffic along Wrotham Road, and there is a (north-bound) purpose-built Bus Stop immediately adjacent to the site entrance. Additionally, there is a further purpose-built Bus Stop some 150 metres south of the site boundary. On the south-bound side of Wrotham Road, again, a purpose-built Bus Stop is located some 50 metres distant from the site boundary. Meopham station (London to Dover mainline route) is approximately 1.2 miles remote - a 5 minute cycle journey, or a 25 minute walk.

Access to local amenities is within easy walking distance -

- 1 Immediately adjacent to the site, are numerous facilities, including the Meopham Medical Centre, Meopham Sports Centre, Meopham School, Meopham Library, and a day-care Nursery.
- 2 Numerous Public Houses and Restaurants are locally available, at Meopham Green, Hook Green, Meopham Station, and also, immediately adjacent, at The George Inn Public House.
- 3 "The Parade" is some 300m to the north of the site, and has a selection of "local" shops serving Meopham. Meopham Primary School is adjacent.
- 4 A Veterinary Surgeon and a Dental Practice are located at Meopham Green, while further shops, including a Post Office, are located close to Meopham Station.

Within the development, access into dwellings will be step-free, while detailing to the hard landscaping from the entrance gates through to each dwelling will rely on construction detailing which does not introduce barriers for wheelchair users, or those with visual impairments



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Highways and Transportation
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Ashford
TN24 8AD

Tel: 03000 418181

Date: 21 July 2021

Application - PAP/2021/46

Location - Holly Cottage, Wrotham Road, Meopham, Kent, DA13 OAH

Proposal - Demotion of existing Holly Cottage, formation of new access into the site, and the construction of 8 no. 4 bedroom houses with double garages and 5 no. visitor car parking spaces

I refer to your recent request for highways pre-application advice for the above development proposal. I apologise for the delay in responding but as you are aware I was recently unavailable due to an injury.

Looking at the details you have provided I would not have many concerns regarding your proposal should I be consulted on a planning application for the housing development.

The proposed access replaces the existing driveway directly onto Wrotham Road which is a classified road (A227). Whilst the proposed 8 dwellings would result in an increase of vehicle movements at the access, I do not consider that in this location it would be of concern as it is unlikely to be in significant numbers and not likely to be detrimental to highway safety or cause congestion in NPPF terms.

However, on your submitted drawing you show the access as a kerbed bellmouth. Whilst this would be acceptable, I would prefer to see a standard dropped kerb access, much as the existing, since it would give priority to pedestrians over vehicular traffic. Such an access should be a minimum of 4.8m wide for at least the first 6.0m to enable two vehicles to pass without the need to reverse in the entrance.

Wrotham Road is subject to a 30mph speed limit at this location and therefore visibility splays of 2.4m x 43m should be provided in both directions. This should be measured from the nearside edge of carriageway which would not appear to present a problem. In addition, 2.0m x 2.0m pedestrian visibility splays should be provided from the back edge of the footway either side of the new access. I would expect both of these visibility splays to be conditioned on any planning consent granted.

No gates should be fixed within 6.0m of the road edge also the first 6.0m of any driveway should be constructed in a bound material i.e. not loose gravel.

It is unclear from your drawing the purpose of the two gated accesses either side of the entrance but they are positioned close to the entrance and therefore could result in conflicting

traffic movements at that location causing congestion in the entrance. Further explanation is necessary.

In terms of parking it would appear that adequate parking is provided with a minimum of 2 independently accessible spaces per dwelling in accordance with KCC Residential Parking Standards (IGN3) together with 5 visitor spaces which is adequate for the size of the development. Please note that garages do not count towards the parking provision. The parking spaces on your drawing are not dimensioned but should be a minimum of 5.0m x 2.5m.

I hope that the above information is sufficient for you and should a planning application be forthcoming I would not expect to raise any objection on highway grounds.

If you require any further assistance then please contact me.

INFORMATIVE: Should the development be approved by the Planning Authority, it is the responsibility of the applicant to ensure, before the development is commenced, that all necessary highway approvals and consents where required are obtained and that the limits of highway boundary are clearly established in order to avoid any enforcement action being taken by the Highway Authority.

Across the county there are pieces of land next to private homes and gardens that do not look like roads or pavements but are actually part of the road. This is called 'highway land'. Some of this land is owned by The Kent County Council (KCC) whilst some are owned by third party owners. Irrespective of the ownership, this land may have 'highway rights' over the topsoil. Information about how to clarify the highway boundary can be found at

<https://www.kent.gov.uk/roads-and-travel/what-we-look-after/highway-land/highway-boundary-enquiries>

The applicant must also ensure that the details shown on the approved plans agree in every aspect with those approved under such legislation and common law. It is therefore important for the applicant to contact KCC Highways and Transportation to progress this aspect of the works prior to commencement on site.

Yours faithfully

David Barton
Senior Development Planner

2

1



RE: Pre-App request for Holly Cottage, Wrotham Road, Meopham

David.Barton@kent.gov.uk <David.Barton@kent.gov.uk>

Tue 03/08/2021 12:18

To: gordon.mcquade@outlook.com <gordon.mcquade@outlook.com>

Hi Gordon

Thank you for your email.

I have reviewed your revised sketch and it looks to be acceptable arrangement in highway terms. Should a planning application be made along these lines I would not raise an objection on highway grounds and would recommend that a condition be applied in respect of the visibility splay being created and maintained in future.

If you require any further advice, please let me know.

Many thanks

Dave

David Barton

Senior Development Planner

Kent County Council Highways & Transportation

07715 428802

From: Gordon McQuade <gordon.mcquade@outlook.com>

Sent: 30 July 2021 10:58

To: David Barton - GT HTW <David.Barton@kent.gov.uk>

Subject: Re: Pre-App request for Holly Cottage, Wrotham Road, Meopham

David

Thanks for the response

I've sketched an option (as attached, and at a larger scale, to see the detail a bit better!)

In reference to your points raised in both your email, and our telephone discussion, let me outline my design process

- 1** I have moved the entrance wall back to give more space to the front to accommodate cars passing, in the most likely onerous situation (where a 7.5T Delivery Van attempts to access the "Courtyard"), and cars are ready to exit, either from the Courtyard, or from the re-built Holly Cottage. From my own experience of living in a 5 dwelling gated community, most delivery vans these days are Transit/Sprinter type vans, 3.5T weight, which are invariably smaller, and more manoeuvrable
- 2** I have re-positioned the Holly Cottage garage to the south of Holly Cottage, as the previous northern location was not easily suitable for cars turning round - I've also shown two parking spaces as part of the layout
- 3** I have allowed 8.5m for the incoming 7.5T Delivery Van to stop, should there be vehicular traffic already in front at the gates, allowing suitable passing for exiting vehicles
- 4** I have also provided a "turning space" within the new Holly Cottage demise to accommodate any visitor access which needs to turn to drive out forward - this includes using some of the space available between the 5.0m wide entrance road, and the turning area in the Holly Cottage garden. Should there be traffic awaiting entry into the Courtyard as the exiting car from Holly Cottage executes this manoeuvre, then, as it is going forward, it will have sight of the traffic, and will be able to wait, or reverse, to allow the incoming traffic an opportunity to complete its journey

5 In this instance, I have shown a sliding gate, as there is an opportunity to do so with this design
6 Your Item 6 - this will follow in due course.

If you could look at the sketch, and review, I would be most grateful

Regards

Gordon

From: David.Barton@kent.gov.uk <David.Barton@kent.gov.uk>
Sent: 29 July 2021 12:07
To: gordon.mcquade@outlook.com <gordon.mcquade@outlook.com>
Subject: RE: Pre-App request for Holly Cottage, Wrotham Road, Meopham

Hi Gordon

Thanks for your email. Looking at your sketch plan and your changes I would comment as follows:

1. Retained existing access to Willow Tree Farm – acceptable
2. Adjusted new access road – acceptable. I note it is 5.0m wide which is adequate. Please note that as stated previously pedestrian visibility splays measuring 2.0m x 2.0m on either side of the access from the rear of the existing footway would be required with no obstructions above a height of 0.6m will be required and controlled by planning condition.
3. Position of existing Holly Cottage – noted.
4. Refuse bin storage area – acceptable.
5. Third entrance to Plot 1 – as discussed on the phone I would prefer to see the parking for Plot 1 to be located in front of the dwelling i.e. off the new access road. I cannot see any reason why this would not be possible as there appears to be enough space. This would be preferable to introducing another access onto a classified road and essentially the two existing accesses would remain, albeit with slightly increased traffic generation to the Holly Cottage access. It would also mean that vehicles would be able to exit onto Wrotham Road in forward gear which may not be possible with the third access as there may not be sufficient space within the “garden” for a vehicle to turn.
6. It would appear from your sketch that adequate sight lines from the new access can be achieved. As part of any planning application I would need to see a detailed drawing drawn to scale to demonstrate this.

I hope this helps and am happy to discuss further if necessary.

Many thanks
Dave

David Barton
Senior Development Planner
Kent County Council Highways & Transportation
07715 428802

From: Gordon McQuade <gordon.mcquade@outlook.com>
Sent: 27 July 2021 18:14
To: David Barton - GT HTW <David.Barton@kent.gov.uk>
Subject: Re: Pre-App request for Holly Cottage, Wrotham Road, Meopham

David

Thanks for the feedback today

I've looked at what we were discussing, and attached is a sketch I spent some time thinking about, hence the delay in getting it over to you (together with a couple of photos of the existing accesses to both Willow Tree Farm, and Holly Cottage)

I have changed several details

- 1 Retained the existing access into Willow Tree Farm
- 2 Adjusted the new Access Road into the Courtyard at its junction with Wrotham Road - it is now just some 1.5 metres off the northern boundary of Willow Tree Road (down from some 4.0m) and is now almost in line with the majority of the existing access to the existing Holly Cottage. In effect, the northern edge of the new access road, is no further north than the existing access onto Holly Cottage
- 3 I've indicated where the current Holly Cottage sits, for reference
- 4 I've indicated a widened section of the access road (2.5m), to accommodate refuse bin storage, and potentially, short term parking for deliveries
- 5 I've shown a third entrance, just north of the access road, to the new Plot 1 (rebuilt Holly Cottage)
- 6 On the second narrower sketch, I have shown the sight lines (43.0x2.4m), to both the new accesses - it works successfully on my sketch, but if you required further details, I can get my draughtsman to generate a more accurate digital detail of the sight lines

Your earliest considerations would be appreciated

Thanks

Gordon

From: David.Barton@kent.gov.uk <David.Barton@kent.gov.uk>
Sent: 26 July 2021 15:56
To: gordon.mcquade@outlook.com <gordon.mcquade@outlook.com>
Subject: Pre-App request for Holly Cottage, Wrotham Road, Meopham

Hi Gordon

I received part of your voicemail message that you left earlier but unfortunately it stopped before I got the whole message.

If you let me have your phone number I will call you tomorrow and we can discuss.

Many thanks
Dave

David Barton
Senior Development Planner
Kent County Council Highways & Transportation
07715 428802



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2.2 Affordable Housing Statement

30th August 2021

Correspondence from the Consultants, Graham Simpkin Planning has been issued directly to Gravesham Borough Council in this respect, in order that a financial proposal may be submitted for consideration.

2.3 Biodiversity Surveys and Reports

30th August 2021

2.3.1 Preliminary Ecological Appraisal Survey	PEA	ARBTECH
2.3.2 Ecological Impact Survey	EcIA	Kent and Medway Biological Records Centre

Both documents listed, are appended for reference



Preliminary Ecological Appraisal Survey

Land at Willow Tree Farm and Holly Cottage, Wrotham Road, Meopham, Kent DA13 0AH

Mr Gordon McQuade

Arbtech Consultant's Contact details:

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Guidelines

This assessment has been designed to meet:

- Chartered Institute of Ecology and Environmental Management 'Guidelines for Preliminary Ecological Appraisal Second Edition, December 2017'; and
- British Standard 42020 (2013) 'Biodiversity – Code of Practice for Planning and Development'.

Proportionality

The work involved in preparing and implementing all ecological surveys, impact assessments and measures for avoidance, mitigation, compensation and enhancement should be proportionate to the predicted degree of risk to biodiversity and to the nature and scale of the proposed development. Consequently, the decision-maker should only request supporting information and conservation measures that are relevant, necessary and material to the application in question. Similarly, the decision-maker and their consultees should ensure that any comments and advice made over an application are also proportionate.

This approach is enshrined in Government planning guidance, for example, the National Planning Policy Framework for England 2019 paragraphs 174 and 175. The desk studies and field surveys undertaken to provide a preliminary ecological appraisal (PEA) might in some cases be all that is necessary. (BS 42020, 2013)

In consequence of the scale and intensity of the proposed development, the low impact on ecological receptors identified through both the site survey and search of local biological records, and the passive interface with the mitigation hierarchy, this plan-led report is considered adequate and proportionate. It communicates all relevant information necessary to determine a planning application or support the recommendations for further surveys.

Executive summary

Arbtech were commissioned by Mr Gordon McQuade to undertake a preliminary ecological appraisal (PEA) for Land at Willow Tree Farm and Holly Cottage, Wrotham Road, Meopham, Kent DA13 0AH. The survey visit was completed on 19th July 2021. The aim of the survey was to complete an extended Phase 1 Habitat Survey of the survey area (all land that will be impacted by the proposals).

This report is prepared to inform a planning application with Gravesham Borough Council. The proposed development is described as:

- The demolition of an existing bungalow and the construction of eight houses.

Recommendations - This is work you will need to commission (if any) to obtain planning permission or comply with legislation for other consent.

Ecological Factor	Recommendations
Designated sites	No further surveys are required. Planning applications near the SAC may need mitigate the potential impacts of the development to ensure the effects of any increase in visitors are addressed. This may involve payments towards both: Suitable Alternative Natural Greenspace (SANG) - Contributions are likely required by the local authority for the ongoing management and maintenance of local SANGs. Similar, strategic Access Management and Monitoring (SAMM) - A financial contribution towards SAMM will may be needed for ongoing visitor management projects and monitoring in accordance with the SAMM Strategy. The LPA will be able to provide advice on any SANG and SAMM arrangements if required.
Notable habitats and plants	No further surveys. A biodiversity net gain (BNG) metric report comparing the existing habitat baseline to the proposed site may be required by the council to determine if habitat losses can be compensated for with on or off-site offsetting.
Invasive / Non-native species	No further surveys but remain vigilant.
Invertebrates	No further surveys required.
Bats	No further surveys required. Lighting mitigation is required for the boundary trees to maintain dark corridors:

	➤ Lighting will be controlled across the developed site. Research into the effects of artificial lighting on bats has shown that it can impact upon bat emergence times and lead to a reduced foraging time. ➤ As bats are faithful to their roost sites, often returning to the same site for many years, the impact of lighting on emergence times and in turn reduced foraging times can ultimately result in the roosts being abandoned. ➤ Key areas of the site which are sensitive to artificial lighting are the boundary hedges. ➤ The lighting on the developed site will be limited to the renovated building only. No lighting will be installed within the garden area/along the site boundaries, thereby maintaining the existing dark areas within the developed site for bats. ➤ Low impact lighting strategies will be adopted from the guidance outlined in the new Bats and Lighting Publication produced by the Institution of Lighting Professionals and the Bat Conservation Trust "Guidance Note 08/18 Bats and artificial lighting in the UK Bats and the Built Environment series" publication: http://www.bats.org.uk/news.php/406/new_guidance_on_bats_and_lighting ➤ The lighting on the site will: ▪ Use narrow spectrum light sources to lower the range of species affected by lighting ▪ Use light sources that emit minimal ultra-violet light ▪ Avoid white and blue wavelengths of the light spectrum to reduce insect attraction and where white light sources are required in order to manage the blue short wave length content they should be of a warm / neutral colour temperature <4,200 kelvin. ▪ Not use bare bulbs and any light pointing upwards. The spread of light will be kept in line with or below the horizontal. ▪ Light spill will be reduced via the use of low level lighting used in conjunction with hoods, cowls, louvers and shields. Lights will also be directional to ensure that light is directed to the intended areas only. ▪ External lighting will be positioned below the eaves, be on PIR sensors that are sensitive to large objects only (so that they are not triggered by passing bats), and will be set to the shortest time duration to reduce the amount of time the lights are on. Wall lights and security lights will be 'dimmable' and set to the lowest light intensity settings. There are several products on the market that allow the control of the light intensity
Birds	Works on vegetation should be undertaken outside the period 1st March to 31st August. If this timeframe cannot be avoided, a close inspection of the building should be undertaken immediately prior to the commencement of works by an experienced ecologist. All active nests will need to be retained until the young have fledged.
Reptiles	Further presence/likely-absence surveys are recommended; this will confirm if any reptile species are using the grass area on site and provide an indication of abundance and distribution. The survey methodology is described below:

	➤ A minimum of 8 visits in suitable weather (9oC - 18oC) are required, one of these is to set-up the survey. ➤ This can be done starting from April, the season ending in October, with the optimal being April, May and September. ➤ Refuges are placed in suitable habitat areas around the site. There is assessed to be ~0.3ha of suitable reptile habitat on site. With a survey density of 100/refugia per hectare there would need to be at least 30 reptile felts placed around the site, ideally more to get a better pattern of any distribution. ➤ After a two-week bedding in period these are then checked in subsequent visits. These checks should be at least a week apart. Any reptiles are recorded. If reptiles are found, a reptile mitigation plan will need to be created for the site based on the species and assumed population size. The site is a significant distance from known locations of smooth snake, which is a European protected species. The BNG provisions of replacement scrub and ruderal herb in the local area should compensate for the loss occurred on this site for reptiles.
Amphibians	No further surveys.
Other Terrestrial Mammals	Badgers No further surveys. However, the following recommendations are given in order to mitigate against potential harm to hedgehogs during the development works. • Any trenches dug should either be covered at night or have a rough sawn plank placed in them to act as a ramp for any wildlife which may fall in. • Security lighting to be directed away from the undergrowth. Any chemicals or pollutants used or created by the development should be stored and disposed of correctly according to COSHH regulations. Water Vole No further surveys. Otter No further surveys. Dormouse No further surveys. Hedgehogs No further surveys are required. See badger mitigation above.

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1.0 Introduction and Context

1.1 Background

Arbtech were commissioned by Mr Gordon McQuade to undertake a preliminary ecological appraisal (PEA) for Land at Willow Tree Farm and Holly Cottage, Wrotham Road, Meopham, Kent DA13 w0AH. The aim of the survey was to complete an extended Phase 1 Habitat Survey of the survey area (all land that will be impacted by the proposals) and analyse this against a desk study.

No previous ecology surveys are known from Arbtech Consulting or others.

1.2 Site Context

The survey site is centred on National Grid Reference TQ 6433 6595 and has an area of approximately 6420m². The survey site consists of a bungalow and outbuildings, amenity grass, ornamental planting, and a stand of ruderal herb and scrub with scattered trees.

1.3 Scope of the report

This report describes the baseline ecological conditions at the site; evaluates habitats within the survey area in the context of the wider environment; and describes the suitability of those habitats for notable or protected species. It identifies significant ecological impacts as a result of the development proposals; summarises the requirements for further surveys and mitigation measures, to inform subsequent mitigation proposals, achieve Planning or other statutory consent, and to comply with wildlife legislation.

The aim of the PEA was to obtain data on existing ecological conditions, and to conduct a preliminary assessment of the likely significance of ecological impacts on the proposed development.

Establishing the baseline conditions for future monitoring. To achieve this, the following steps were taken:

- The desk study area and field survey area (generally 50m from the site boundary/proposed footprint and including the 'zone of influence' of the scheme) have been identified
- A desk study has been carried out.
- Baseline information on the site and surrounding area has been recorded through an 'extended phase 1 habitat survey', including a phase 1 habitat survey (JNCC 2010) and recording further details in relation to notable or protected habitats and species.
- The ecological features present within the survey area have been evaluated where possible (CIEEM, December 2017).
- Invasive plant and animal species (such as those listed on Schedule 9 of the Wildlife & Countryside Act) have been identified.
- Likely impacts on features of value, as a result of the development proposals, have been identified.
- Recommendations for further survey and assessment have been made.
- Recommendations for mitigation and opportunities for enhancement have been provided based on current information.

A survey plan is presented in Appendix 1, proposed plans in Appendix 2 (where available), desk study results in Appendix 3 and a summary of relevant legislation is presented in Appendix 4.

1.4 Project Description

This report is prepared to inform a planning application with Gravesham Borough Council. The proposed development is described as:

- The demolition of an existing bungalow and the construction of eight houses.

2.0 Methodology

2.1 Desk Study methodology

The desk study informing the survey conclusions consists of a review of nearby statutory and non-statutory designated sites, biodiversity action plan (BAP) priority habitats and granted EPSML records held on the Magic database. An assessment of the surrounding landscape structure was also completed using aerial images from Google Earth and OS maps.

Additionally, to conform to best practice guidelines biological data records (BRD) within a 1km radius of the site will need to be obtained from the local biological records centre (Kent and Medway Biological Records Centre, KMBRC). These will be analysed and summarised in the conclusions and recommendations part of the report where relevant upon arrival.

The data search is confidential information that is not suitable for public release and has been analysed and summarised for presentation in this report. They can be provided on request by the LPA.

2.2 Site Survey methodology

The survey was undertaken by Craig Williams BSc, MSc, DIC (Natural England Protected Species Licence Numbers: [Bats] (2018-33540-CLS-CLS) [Great Crested Newts] (2015-16682-CLS-CLS) [Barn Owls] (CL29/00097) on 19th July 2021.

Preliminary ecological appraisal methodology:

The methodology for the Phase 1 habitat survey is based on the best practice publication Phase 1 Habitat Survey Methodology (JNCC, 2010). All land parcels are described and mapped according to JNCC Phase 1 habitat classification (see site map in Appendix 1). Where appropriate, target notes provide supplementary information on habitat conditions, features too small to map to scale, species composition, structure and management.

During the survey, habitats were assessed for their suitability to support protected species, and field signs indicating their presence recorded. The assessment takes into consideration the findings of the desk study, the habitat conditions on site and in the context of the surrounding landscape, and the ecology of the protected species. The likelihood of the presence of protected species is ranked; the habitats on site are evaluated against their likelihood to provide suitable habitat for protected species.

All features that will be impacted by the project proposals were assessed for their bat roosting and/or commuting habitat. The surveyor systematically surveyed all features suitable for bats and signs of bat activity.

Preliminary roost assessment bat survey methodology:

Buildings:

A non-intrusive visual appraisal from the ground using binoculars, inspecting the external features of the building(s) for potential access/egress points, and for signs of bat use. An internal inspection of the building was also made, including the living areas of derelict or abandoned buildings and the accessible roof spaces of all buildings, using an endoscope, torch and ladders. The surveyor paid particular attention to the floor and flat surfaces, window shutters and frames, lintels above doors and windows, and carried out a detailed search of numerous features within the roof space.

The ecological value of the survey area has been assessed based on the Guidelines for Ecological Impact Assessment (CIEEM, 2006), and the Handbook of Biodiversity Methods: Survey, Evaluation and Monitoring (David Hill, 2005), using geographic frames of reference. The biodiversity value of any identified designated sites, habitat types and associated species assemblages has been considered. The distribution and extent of invasive species listed on Schedule 9 of the Wildlife and Countryside Act (1981) were also noted throughout the survey area.

2.3 Suitability Assessment

The habitats on site were evaluated as to their likelihood to provide sheltering, roosting, foraging, basking or nesting habitat. The likelihood of the occurrence of protected species is ranked according to the criteria listed in Table 1 below.

Table 1: showing criteria considered when assessing the likelihood of occurrence of protected species

Present	Species are confirmed as present from the current survey or historical confirmed records.
High	Habitat and features of high quality for species/species assemblage. Species known to be present in wider landscape (desk study records). Good quality surrounding habitat and good connectivity.
Medium	Habitat and features of moderate quality. The site in combination with surrounding land provides all habitat/ecological conditions required by the species/assemblage. Within known national distribution of species and local records in desk study area. Limiting factors to suitability, including small area of suitable habitat, some severance/poor connectivity with wider landscape, poor to moderate habitat suitability in local area.
Low	Habitats within the survey area poor quality. Few or no records from data search. Despite above, presence cannot be discounted as within national range, all required features/conditions present on site and in surrounding landscape. Limiting factors could include isolation, poor quality landscape, or disturbance.
Negligible	Very limited poor-quality habitats and features. No local records from desk study; site on edge of, or outside, national range. Surrounding habitats considered unlikely to support species/species assemblage.

2.4 Limitations – evaluation of the methodology

It should be noted that whilst every effort has been made to describe the baseline conditions within the survey area, and evaluate these features, this report does not provide a complete characterisation of the site. This assessment provides a preliminary view of the likelihood of protected species being present. This is based on suitability of the habitats on the site and in the wider landscape, the ecology and biology of species as currently understood, and the known distribution of species as recovered during the searches of historical biological records.

- There were no specific limitations to the survey regarding access, biotic or abiotic factors (e.g., wasps, asbestos), seasonality, visibility, or adverse weather.
- Therefore, the results of the survey are considered an accurate baseline to support the conclusions and recommendations of the report.

3.0 Results and Evaluation

3.1 Desk Study Results

The desk study methodology as outlined in 2.1 has been carried out, and any relevant findings regarding sites, habitats or species will be incorporated into the conclusions and recommendations section of this report (4.2) for ease of reading.

3.2 Field Survey Results

The site of the proposed development is briefly described as a bungalow and outbuildings, amenity grass, ornamental planting, and a stand of ruderal herb and scrub with scattered trees.

Table 6: Weather conditions during the survey

Date: 19/07/2021	
Temperature	18°C
Humidity	81%
Cloud Cover	10%
Wind	4mph
Rain	None

3.3 Site descriptions and photos

Phase 1 habitat codes in brackets when they first appear in text.

Buildings and hard standing [J3.6]

Building

There are five main buildings on site, designated as B1-B5.

B1 is a brick built chalet bungalow with a half-hipped roof of clay tiles. These are of a good condition without significant loose missing or broken examples including ridge and hip tiles. Hipped roof dormer windows have hung tile cheeks which are also intact. The northern gable end has more intact hung tiles. Plastic soffit, fascia and barge boards are intact without gaps. Exterior walls are rendered without cracks. Window and door frames are tight fitting. The loft of bungalow shallow and narrow above mainly habitable rooms in the loft void, with an intact bitumen felt under the tiles although with vents.

B2 is a modern metal workshop in the south of the site, with a gabled sheet roof and an open interior which was in use during the survey for car maintenance and well illuminated.

B3 and B4 are small timber framed garages used for storage with sloped, gabled roofs and no internal voids.

B5 is a small timber shed with a shallowly gabled roof.

Other small, undesignated outbuildings are found round the site e.g., small garden sheds.

Hard standing

Paving, gravel driveway and small parking areas are found over the site.

Amenity grass [J1.2]

Small areas of closely mown amenity grass lawn are found on site, the largest in the rear, western garden of the bungalow but also found in the front.

Ornamental planting [J1.5]

Small areas of ornamental planting are scattered across the site, mainly in the front garden of the bungalow.

Scattered scrub and Tall ruderal herb [J1.5]

Much of the northern half of the site consists of a stand of unmanaged ground, which has succeeded into scrub and tall ruderal herb with dominant ragwort, frequent nettle, creeping thistle common hogweed, self-heal and curled dock. Rabbit evidence is scattered. A brash pile in the centre could provide refuge to a range of animals. Scattered bramble scrub gradates into the trees along the northern boundary.

Scattered mixed trees [A3.3]

A short hedge hawthorn hedge runs along the eastern boundary with the road. Other tree lines in boundary include ash, hazel, hawthorn and sycamore. Scattered trees inside the site include Thuja, dawn redwood, cedar, elder, cherry, holly, blackthorn, birch, magnolia and strawberry tree. A short conifer screens is found in the east of the site.

None of the trees on site have any observed internal roosting value.



Photo 1: Looking west at the eastern elevation of B1, with the start of the scrub and tall ruderal herb area to the right.



Photo 2: Looking across the northern scrub and ruderal herb area.



Photo 3: Hard standing area to the west of the site



Photo 4: Outbuildings in the south-western corner of the site, with the outbuildings B3, B4 and B5.



Photo 5: Parking area in the west of the site.



Photo 6: Looking south-west at B2.

4.0 Conclusions, Impacts and Recommendations

4.1 Informative guidelines

Likelihood of the presence of protected species

Where physical evidence of the presence of protected species is indeterminate during the survey, the habitats on site are evaluated as to their likelihood to provide sheltering, roosting, foraging, basking or nesting habitat. The likelihood of occupancy of protected species is ranked according to the criteria listed in Table 1.

Where this report supports a planning application, the ecological interest of the study area (including the survey area) and the proposed development has also been evaluated in terms of the planning policies relating to biodiversity. It is clearly stated where a preliminary value can be given and where further information is required.

Appropriate justification for this assessment is provided in Section 2.3 and Table 1 of this report.

4.2 Evaluation

Taking the desk study and site survey results into account, the following conclusions for ecological factors has been reached.

Table 7: Evaluation of site

Ecological Factor	Survey assessment conclusions (with justification)	Foreseen impacts	Recommendations	Enhancements
Designated sites	The site itself is not subject to any statutory or non-statutory designation, and there are none known close by.	The construction of a eight new residential unit on the site could cause an increase in recreational pressure (of a net gain of seven units) on the nearby European designated	No further surveys are required. Planning applications near the SAC may need mitigate the potential impacts of the development to ensure the effects of any increase in visitors are addressed. This may involve payments towards both:	The Local Planning Authority has a duty to ask for enhancements under the NPPF N/A

	The site is ~3.2km north-west from the North Downs Woodlands Special area of Conservation (SAC).	site (SAC) e.g., dog walking, trampling, refuse etc. This could be a likely significant effect. No other impact pathways are foreseen due distance attenuation.	Suitable Alternative Natural Greenspace (SANG) - Contributions are likely required by the local authority for the ongoing management and maintenance of local SANGs. Similar, strategic Access Management and Monitoring (SAMM) - A financial contribution towards SAMM will may be needed for ongoing visitor management projects and monitoring in accordance with the SAMM Strategy. The LPA will be able to provide advice on any SANG and SAMM arrangements if required.	
Notable habitats and plants	No protected, designated or notable habitat is found on site or nearby.	No impacts foreseen.	No further surveys. A biodiversity net gain (BNG) metric report comparing the existing habitat baseline to the proposed site may be required by the council to determine if habitat losses can be compensated for with on or off-site offsetting.	Any hedge shrubs or trees removed should be replaced on site or close by, at a ratio of 1:1 or greater. Any new trees or shrubs planted should be of native species of local provenance.
Invasive / Non-native species	No invasive and non-native species recorded on site.	N/A	No further surveys but remain vigilant.	N/A
Invertebrates	Although they may be useful for a range of generalist invertebrates,	None foreseen.	No further surveys required.	The creation of long grass or nectar rich meadow areas on or

	the habitats on site are widespread even locally and are very unlikely to contain notable or protected assemblages.			around the site would be of benefit to these taxa, as would log and stone piles in sunny areas. Beetle loggeries of semi-sunken vertical timbers would provide habitat for larvae.
Bats	There are no features of bat roosting value on site. The bungalow and outbuildings have no suitable crevices or voids and no evidence was found externally or internally. None of the trees were observed to have any roosting features, although bats are likely to commute and forage along the boundaries at night.	No impacts foreseen on roosting bats. Any new lighting near the boundaries may disrupt commuting bats.	No further surveys required. Lighting mitigation is required for the boundary trees to maintain dark corridors: ➤ Lighting will be controlled across the developed site. Research into the effects of artificial lighting on bats has shown that it can impact upon bat emergence times and lead to a reduced foraging time. ➤ As bats are faithful to their roost sites, often returning to the same site for many years, the impact of lighting on emergence times and in turn reduced foraging times can ultimately result in the roosts being abandoned. ➤ Key areas of the site which are sensitive to artificial lighting are the boundary hedges. ➤ The lighting on the developed site will be limited to the renovated building only. No lighting will be installed within the garden area/along the site boundaries, thereby maintaining the existing dark areas within the developed site for bats. ➤ Low impact lighting strategies will be adopted from the guidance outlined in the new Bats and Lighting Publication produced by the Institution of Lighting Professionals and the Bat Conservation Trust "Guidance Note 08/18 Bats and artificial lighting in the UK Bats and the Built Environment series" publication:	A range of woodcrete bat boxes could be installed on the renovated building or retained trees, between 3-5m in height, on the south or south-east side of the trunk or elevation with clear flightpaths and away from lighting.

			http://www.bats.org.uk/news.php/406/new_guidance_on_bats_and_lighting	
			➤ The lighting on the site will: ▪ Use narrow spectrum light sources to lower the range of species affected by lighting ▪ Use light sources that emit minimal ultra-violet light ▪ Avoid white and blue wavelengths of the light spectrum to reduce insect attraction and where white light sources are required in order to manage the blue short wave length content they should be of a warm / neutral colour temperature <4,200 kelvin. ▪ Not use bare bulbs and any light pointing upwards. The spread of light will be kept in line with or below the horizontal. ▪ Light spill will be reduced via the use of low level lighting used in conjunction with hoods, cowls, louvers and shields. Lights will also be directional to ensure that light is directed to the intended areas only. ▪ External lighting will be positioned below the eaves, be on PIR sensors that are sensitive to large objects only (so that they are not triggered by passing bats), and will be set to the shortest time duration to reduce the amount of time the lights are on. ▪ Wall lights and security lights will be 'dimnable' and set to the lowest light intensity settings. There are several products on the market that allow the control of the light intensity	
Birds	Birds may nest on or within the building, trees and hedges on site in the active season.	Any works on the buildings, trees or shrubs could destroy nests if undertaken within the breeding season.	Works on vegetation should be undertaken outside the period 1st March to 31st August. If this timeframe cannot be avoided, a close inspection of the building should be undertaken immediately prior to the commencement of works by an experienced ecologist. All active nests will need to be retained until the young have fledged.	Install woodcrete bird boxes with a range of hole diameters on retained trees between 3 and 5m in height and out of

	There is no habitat for other schedule 1 birds of the Wildlife and Countryside Act 1981 (as amended) e.g., peregrine falcons, barn owls or black redstart.			direct sunlight, with clear flight paths. Woodcrete swift boxes on the new buildings would be used by a range of bird species. Grass buffer areas around the wider site to grow long for invertebrate diversity, which birds prey upon.
Reptiles	The rough area of scrub and tall ruderal herb in the north of the site offers good habitat for reptiles and links to other suitable areas in fields to the west. Brash piles strewn in the area provide refugia and hibernacula, and quiet areas of hard standing could be used for basking.	The reptile habitat will be lost for the development scheme.	Further presence/likely-absence surveys are recommended; this will confirm if any reptile species are using the grass area on site and provide an indication of abundance and distribution. The survey methodology is described below: ➤ A minimum of 8 visits in suitable weather (9oC - 18oC) are required, one of these is to set-up the survey. ➤ This can be done starting from April, the season ending in October, with the optimal being April, May and September. ➤ Refuges are placed in suitable habitat areas around the site. There is assessed to be ~0.3ha of suitable reptile habitat on site. With a survey density of 100/refugia per hectare there would need to be at least 30 reptile felts placed around the site, ideally more to get a better pattern of any distribution.	Dependant on the results of the further surveys, however included in the ecological plan should be areas of longer grass and meadow would provide reptile habitat, as well as loose piles of logs and stones – hibernacula.

			➤ After a two-week bedding in period these are then checked in subsequent visits. These checks should be at least a week apart. Any reptiles are recorded. If reptiles are found, a reptile mitigation plan will need to be created for the site based on the species and assumed population size. The site is a significant distance from known locations of smooth snake, which is a European protected species. The BNG provisions of replacement scrub and ruderal herb in the local area should compensate for the loss occurred on this site for reptiles.	
Amphibians	No protected amphibian EPSL has been granted within 1km of the survey site, and no previous positive surveys are known nearby. Although there is suitable terrestrial habitat value site for protected amphibians with the scrub and tall ruderal herb, there are no known aquatic habitats i.e ponds on site or nearby. Therefore, as both are	None foreseen.	No further surveys.	A small wildlife pond (no fish or waterfowl provision) would bring the most enhancement for amphibians, also with rough grass habitat and refugia nearby for their terrestrial phase.

	critical for the amphibian life cycle, it is very unlikely that protected amphibians use the site at any time of year.			
Other Terrestrial Mammals	Badgers No badger setts were found and none are suspected within 30m of the survey area. Badgers could be commuting across the site, however.	Badgers No impacts on any badger setts is foreseen, although individuals may become trapped in the works site.	Badgers No further surveys. However, the following recommendations are given in order to mitigate against potential harm to hedgehogs during the development works. - Any trenches dug should either be covered at night or have a rough sawn plank placed in them to act as a ramp for any wildlife which may fall in. - Security lighting to be directed away from the undergrowth. - Any chemicals or pollutants used or created by the development should be stored and disposed of correctly according to COSHH regulations.	Badgers Fruit trees could be planted to increase foraging value for badgers.
	Water Vole No habitat Value.	Water Vole None foreseen.	Water Vole No further surveys.	Water Vole N/A
	Otter No habitat Value.	Otter None foreseen.	Otter No further surveys.	Otter N/A
	Dormouse No suitable habitat on site. No EPSLs for the species are known nearby.	Dormouse None foreseen.	Dormouse No further surveys.	Dormouse N/A
	Hedgehogs	Hedgehogs No impacts foreseen.	Hedgehogs No further surveys are required. See badger mitigation above.	Hedgehogs Permeability of fences is essential to retain

	Hedgehogs may currently use the site for commuting or foraging.			commuting routes, and 13cm² gaps should be included frequently. Hedgehog houses (made of wood without wires) could be installed in quiet corners.
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Appendix 1: Phase 1 Habitat Survey Map



Appendix 1.2 Landscape

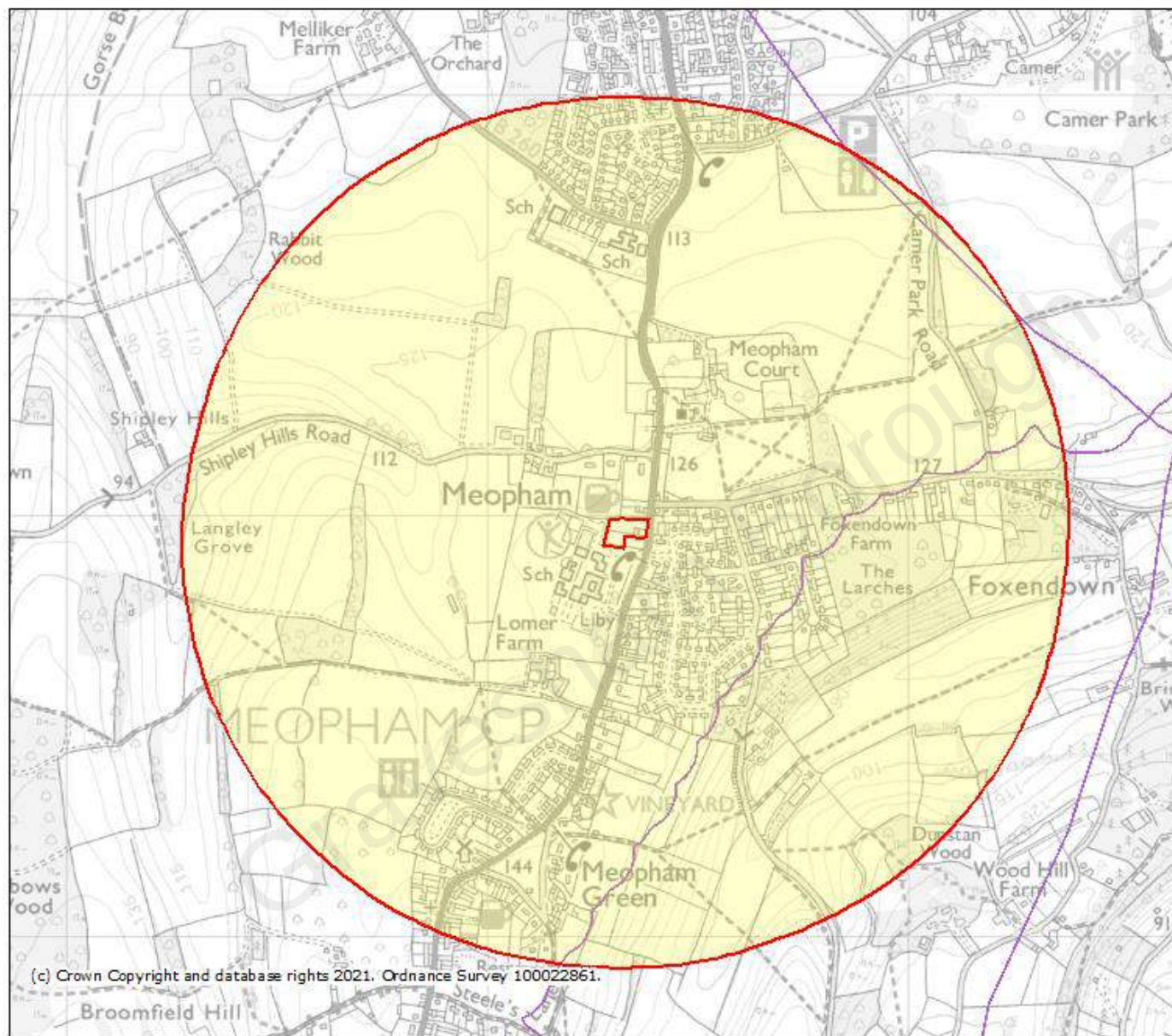


Appendix 2: Proposed Site Plan



Appendix 3: Desk Study Information

Statutory sites



Legend

SSSI Impact Risk Zones -
to assess planning
applications for likely
impacts on
SSSIs/SACs/SPAs &
Ramsar sites (England)

Projection = OSGB36

xmin = 560700

ymin = 164200

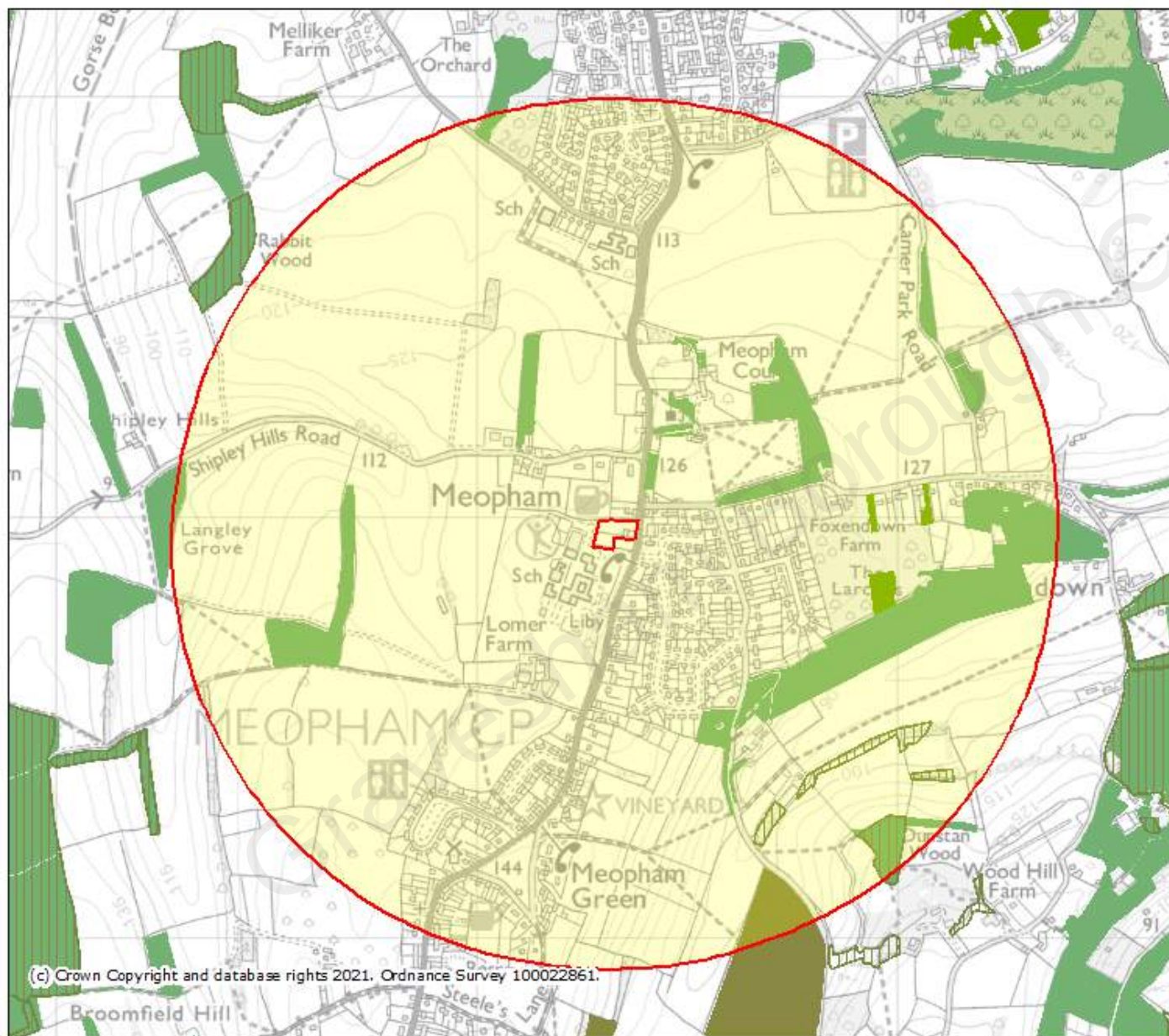
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Map produced by MAGIC on 21 July, 2021.

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Habitats



Legend

Priority Habitat Inventory -
Lowland Calcareous
Grassland (England)

Ancient Woodland (England)

Ancient and Semi-Natural
Woodland

Ancient Replanted
Woodland

Priority Habitat Inventory -
Deciduous Woodland
(England)

Priority Habitat Inventory -
Traditional Orchards
(England)

Woodpasture and
Parkland BAP Priority
Habitat (England)

Projection = OSGB36

xmin = 560700

ymin = 164200

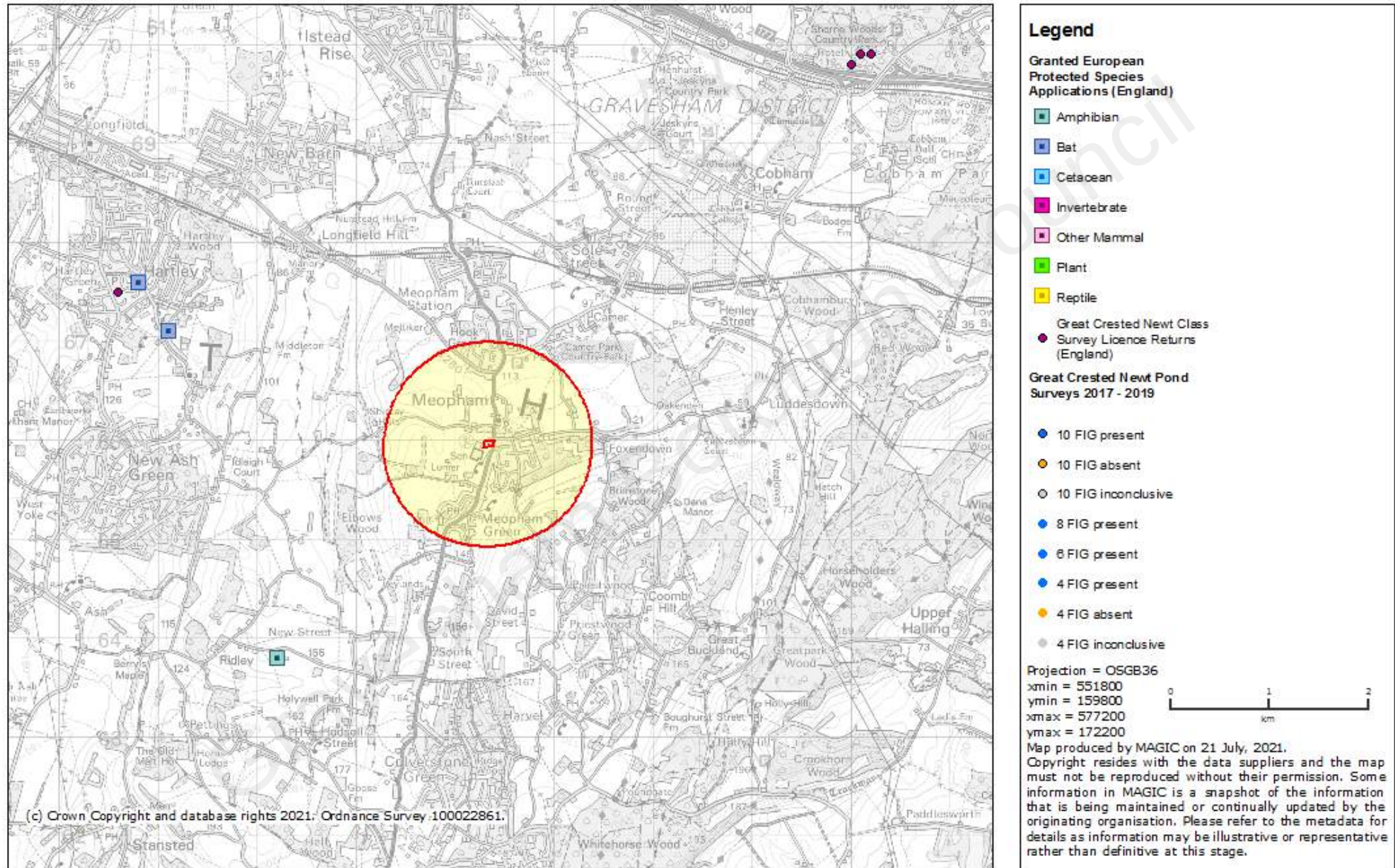
xmax = 567800

ymax = 167700

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EPSMLs



Appendix 4: Legislation and Planning Policy

New legislation (2020)

The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019 came into force when Britain left the European Union on 31st January 2020. It covered amendments relevant to this survey to:

Wildlife and Countryside Act 1981: England and Wales (x1 amendment)

Conservation of Habitats and Species Regulations 2017 (x29 amendments)

LEGAL PROTECTION

National and European Legislation Afforded to Habitats

International Statutory Designations

Special Areas of Conservation (SACs) and Special Protection Areas (SPAs) are sites of European importance and are designated under the EC Habitats Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora (the Habitats Directive) and the EC Birds Directive 2009/147/EC on the conservation of wild birds respectively. Both form part of the wider Natura 2000 network across Europe.

Under the Habitats Directive Article 3 requires the establishment of a network of important conservation sites (SACs) across Europe. Over 1,000 animal and plant species, as well as 200 habitat types, listed in the directive's annexes are protected in various ways:

Annex II species (about 900): core areas of their habitat are designated as sites of Community importance (SCIs) and included in the Natura 2000 network. These sites must be managed in accordance with the ecological needs of the species.

Annex IV species (over 400, including many annex II species): a strict protection regime must be applied across their entire natural range within the EU, both within and outside Natura 2000 sites.

Annex V species (over 90): Member States must ensure that their exploitation and taking in the wild is compatible with maintaining them in a favourable conservation status.

SPAs are classified under Article 2 of the Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds both for rare bird species (as listed on Annex I) and for important migratory species.

SACs and SPAs up to 12 nautical miles from the coast (i.e. 'territorial waters') are afforded protection in the UK under the Conservation of Habitats and Species Regulations 2017 which consolidate all amendments made to the Conservation (Natural Habitats, &c.) Regulations 1994.

The Conservation of Offshore Marine Habitats and Species Regulations 2017 consolidate and update the Offshore Marine Conservation (Natural Habitats, &c.) Regulations 2007. The 2017 Regulations introduce amendments which transfer responsibility for European nature conservation in the Welsh offshore region to Welsh Ministers. This gives Welsh Ministers similar powers in Welsh offshore waters to those currently exercised by Scottish Ministers in Scottish offshore waters. These regulations transpose into national law Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (Habitats Directive), and elements of Council Directive 2009/147/EC on the conservation of wild birds (Wild Birds Directive) in the UK offshore area. They came into force on 30th November 2017. These regulations apply to the UK's offshore marine area which covers waters beyond 12 nautical miles, within British Fishery Limits and the seabed within the UK Continental Shelf Designated Area. The Conservation of Habitats and Species Regulations 2017 form the legal basis for the implementation of the Habitats and Birds Directives in terrestrial areas and territorial waters out to 12nm in England and Wales (including the inshore marine area) and to a limited extent in Scotland and Northern Ireland. Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. The Convention covers all aspects of wetland conservation and recognises the importance of wetland ecosystems in relation to global biodiversity conservation. The Convention refers to wetlands as *"areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres"*. However, they may also include riparian and coastal zones. Ramsar sites are statutorily protected under the Wildlife & Countryside Act 1981 (as amended 01.04.1996) with further protection provided by the Countryside and Rights of Way (CROW) Act 2000. Policy statements have been issued by the Government in England and Wales highlighting the special status of Ramsar sites. The Government in England and Wales has issued policy statements which ensure that Ramsar sites are afforded the same protection as areas designated under the EC Birds and Habitats Directives as part of the Natura 2000 network (e.g. SACs & SPAs). Further provisions for the protection and management of SSSIs have been introduced by the Nature Conservation (Scotland) Act 2004.

National Statutory Designations

Sites of Special Scientific Interest (SSSI) are designated by nature conservation agencies in order to conserve key flora, fauna, geological or physio-geographical features within the UK. The original designations were under the National Parks and Access to the Countryside Act 1949 but SSSIs were then re-designated under the Wildlife & Countryside Act 1981 (as amended). As well as reinforcing other national designations (including National Nature Reserves), the system also provides statutory protection for terrestrial and coastal sites which are important within the European Natura 2000 network and globally.

Local Statutory Designations

Local authorities in consultation with the relevant nature conservation agency can declare Local Nature Reserves (LNRs) under the National Parks and Access to the Countryside Act 1949. LNRs are designated for flora, fauna or geological interest and are managed locally to retain these features and provide research, education and recreational opportunities.

Non- Statutory Designations

All non-statutorily designated sites are referred to as Local Wildlife Sites (LWS) and can be designated by the local authority for supporting local conservation interest. Combined with statutory designation, these sites are considered within Local Development Frameworks under the Town and Country Planning system and are a material consideration during the determination of planning applications. The protection afforded to these sites varies depending on the local authority involved.

Regionally Important Geological Sites (RIGs) are the most important geological and geomorphological areas outside of statutory designations. These sites are also a material consideration during the determination of planning applications.

The Hedgerow Regulations 1997

The Hedgerow Regulations 1997 are designed to protect 'important' countryside hedgerows. Importance is defined by whether the hedgerow (a) has existed for 30 years or more; or (b) satisfies at least one of the criteria listed in Part II of Schedule 1 of the Regulations.

Under the Regulations, it is against the law to remove or destroy hedgerows on or adjacent to common land, village greens, SSSIs (including all terrestrial SACs, NNRs and SPAs), LNRs, land used for agriculture or forestry and land used for the keeping or breeding of horses, ponies or donkeys without the permission of the local authority. Hedgerows 'within or marking the boundary of the curtilage of a dwelling-house' are excluded.

National and European Legislation Afforded to Species

The Habitats Directive

The EC Habitats Directive aims to promote the maintenance of biodiversity by requiring Member States to take measures to maintain or restore wild species listed on the Annexes to the Directive at a favourable conservation status, introducing robust protection for those species of European importance. The Directive is transposed into UK law by The Conservation of Habitats and Species Regulations 2017 (the Conservation Regulations) and the Offshore Marine Conservation (Natural Habitats, &c.) Regulations 2007 (as amended). The following notes are relevant for all species protected under the EC Habitats Directive:

In the Directive, the term 'deliberate' is interpreted as being somewhat wider than intentional and may be thought of as including an element of recklessness.

The Habitats Regulations do not define the act of 'migration' and, therefore, as a precaution, it is recommended that short distance movement of animals for e.g. foraging, breeding or dispersal purposes are also considered.

In order to obtain a European protected species mitigation (EPSM) licence, the application must demonstrate that it meets all of the following three 'tests':

- The action(s) are necessary for the purpose of preserving public health or safety or other imperative reasons of overriding public interest including those of a social or economic nature and beneficial consequence of primary importance for the environment;
- There is no satisfactory alternative; and
- The action authorised will not be detrimental to the maintenance of the species concerned at a favourable conservation status in their natural range.

The Wildlife and Countryside Act (WCA) 1981 (as amended)

The Wildlife and Countryside Act (WCA) 1981 (as amended) implements the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention 1979, implemented 1982) and implements the species protection requirements of EC Birds Directive 2009/147/EC on the conservation of wild birds in Great Britain (the birds Directive). The WCA 1981 has been subject to a number of amendments, the most important of which are through the Countryside and Rights of Way (CROW) Act (2000) and Nature Conservation (Scotland) Act 2004.

Other legislative Acts affording protection to wildlife and their habitats include:

- Deer Act 1991
- Natural Environment & Rural Communities (NERC) Act 2006
- Protection of Badgers Act 1992
- Wild Mammals (Protection) Act 1996

Badgers

Badgers *Meles meles* are protected under The Protection of Badgers Act 1992 which makes it an offence to:

- Wilfully kill, injure, take, or attempt to kill, injure or take a badger
- Cruelly ill-treat a badger, including use of tongs and digging
- Possess or control a dead badger or any part thereof
- Intentionally or recklessly damage, destroy or obstruct access to a badger sett or any part thereof
- Intentionally or recklessly disturb a badger when it is occupying a badger sett

- Intentionally or recklessly cause a dog to enter a badger sett
- Sell or offers for sale, possesses or has under his control, a live badger

Effects on development works:

A development licence will be required from the relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) for any development works likely to affect an active badger sett, or to disturb badgers whilst they occupy a sett. Guidance has been issued by the countryside agency's to define what would constitute a licensable activity. It is no possible to obtain a licence to translocate badgers.

Birds

With certain exceptions, all birds, their nests and eggs are protected under Sections 1-8 of the WCA. Among other things, this makes it an offence to:

- Intentionally (or recklessly in Scotland) kill, injure or take any wild bird
- Intentionally (or recklessly in Scotland) take, damage or destroy (or, in Scotland, otherwise interfere with) the nest of any wild bird while it is in use or being built
- Intentionally take or destroy an egg of any wild bird
- Sell, offer or expose for sale, have in his possession or transport for the purpose of sale any wild bird (dead or alive) or bird egg or part thereof.
- Intentionally or recklessly obstruct or prevent any wild bird from using its nest (Scotland only)

Certain species of bird, for example the barn owl, bittern and kingfisher receive additional protection under Schedule 1 of the WCA and Annex 1 of the European Community Directive on the Conservation of Wild Birds (2009/147/EC) and are commonly referred to as "Schedule 1" birds.

This affords them protection against:

- Intentional or reckless disturbance while it is building a nest or is in, on or near a nest containing eggs or young
- Intentional or reckless disturbance of dependent young of such a bird
- In Scotland only, intentional or reckless disturbance whilst lekking
- In Scotland only, intentional or reckless harassment

Effects on development works:

Works should be planned to avoid the possibility of killing or injuring any wild bird, or damaging or destroying their nests. The most effective way to reduce the likelihood of nest destruction in particular is to undertake work outside the main bird nesting season which typically runs from March to August. Where this is not feasible, it will be necessary to have any areas of suitable habitat thoroughly checked for nests prior to vegetation clearance.

Schedule 1 birds are additionally protected against disturbance during the nesting season. Thus, it will be necessary to ensure that no potentially disturbing works are undertaken in the vicinity of the nest. The most effective way to avoid disturbance is to postpone works until the young have fledged. If this is not feasible, it may be possible to maintain an appropriate buffer zone or standoff around the nest.

Reptiles (Amphibians and reptiles)

The sand lizard *Lacerta agilis*, smooth snake *Coronella austriaca*, natterjack toad *Epidalea calamita*, pool frog *Pelophylax lessonae* and great crested newt *Triturus cristatus* receive full protection under Habitats Regulations through their inclusion on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species
- Deliberate disturbance of species in such a way as:
 - To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
 - To impair their ability to hibernate or migrate
 - To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

With the exception of the pool frog, these species are also listed on Schedule 5 of the WCA and they are additionally protected from:

- Intentional or reckless disturbance (at any level)
- Intentional or reckless obstruction of access to any place of shelter or protection
- Selling, offering or exposing for sale, possession or transporting for purpose of sale.

Other native species of reptiles are protected solely under Schedule 5, Section 9(1) & (5) of the WCA, i.e. the adder *Vipera berus*, grass snake *Natrix natrix*, common lizard *Zootoca vivipara* and slow-worm *Anguis fragilis*. It is prohibited to:

- Intentionally or recklessly kill or injure these species.

Effects on development works:

A European Protected Species Mitigation (EPSM) Licence issued by the relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) will be required for works likely to affect the breeding sites or resting places amphibian and reptile species protected under Habitats Regulations. A licence will also be required for operations liable to result in a level of disturbance which might impair their ability to undertake those activities mentioned above (e.g. survive, breed, rear young and hibernate). The licences are to allow derogation from the relevant legislation, but also to enable appropriate mitigation measures to be put in place and their efficacy to be monitored.

Although not licensable, appropriate mitigation measures may also be required to prevent the intentional killing or injury of adder, grass snake, common lizard and slow worm, thus avoiding contravention of the WCA.

Water voles

The water vole *Arvicola terrestris* is fully protected under Schedule 5 of the WCA. This makes it an offence to:

- Intentionally kill, injure or take (capture) water voles
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection
- Intentionally or recklessly disturb water voles while they are occupying a structure or place used for shelter or protection

Effects on development works:

If development works are likely to affect habitats known to support water voles, the relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) must be consulted. It must be shown that means by which the proposal can be re-designed to avoid contravening the legislation have been fully explored e.g. the use of alternative sites, appropriate timing of works to avoid times of the year in which water voles are most vulnerable, and measures to ensure minimal habitat loss. Conservation licences for the capture and translocation of water voles may be issued by the relevant countryside agency for the purpose of development activities if it can be shown that the activity has been properly planned and executed and thereby contributes to the conservation of the population. The licence will then only be granted to a suitably experienced person if it can be shown that adequate surveys have been undertaken to inform appropriate mitigation measures. Identification and preparation of a suitable receptor site will be necessary prior to the commencement of works.

Otters

Otters *Lutra lutra* are fully protected under the Conservation Regulations through their inclusion on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species
- Deliberate disturbance of species in such a way as:
 - To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
 - To impair their ability to hibernate or migrate
 - To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

Otters are also currently protected under the WCA through their inclusion on Schedule 5. Under this Act, they are additionally protected from:

- Intentional or reckless disturbance (at any level)
- Intentional or reckless obstruction of access to any place of shelter or protection

Effects on development works:

An EPSM Licence issued by the relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) will be required for works likely to affect otter breeding or resting places (often referred to as holts, couches or dens) or for operations likely to result in a level of disturbance which might impair their ability to undertake those activities mentioned above (e.g. survive, breed, and rear young). The licence is to allow derogation from the relevant legislation but also to enable appropriate mitigation measures to be put in place and their efficacy to be monitored

Bats

All species are fully protected by Habitats Regulations 2010 as they are listed on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species (e.g. All bats)
- Deliberate disturbance of bat species in such a way as:
 - To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
 - To impair their ability to hibernate or migrate
 - To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

Bats are afforded the following additional protection through the WCA as they are included on Schedule 5:

- Intentional or reckless disturbance (at any level)
- Intentional or reckless obstruction of access to any place of shelter or protection

Effects on development works:

An EPSM Licence issued by the relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) will be required for works are likely to affect a bat roost or an operation which are likely to result in an illegal level of disturbance to the species will require an EPSM licence. The licence is to allow derogation from the legislation through the application of appropriate mitigation measures and monitoring.

Dormice

Hazel Dormice *Muscardinus avellanarius* are fully protected under Habitats Regulations through their inclusion on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species
- Deliberate disturbance of species in such a way as:
- To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
- To impair their ability to hibernate or migrate
- To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

Dormice are also protected under the WCA through their inclusion on Schedule 5. Under this Act, they are additionally protected from:

- Intentional or reckless disturbance (at any level)
- Intentional or reckless obstruction of access to any place of shelter or protection

Effects on development works:

Works which are liable to affect a dormice habitat or an operation which are likely to result in an illegal level of disturbance to the species will require an EPSM licence issued by the relevant countryside agency (i.e. Natural England, Natural Resources Wales (NB: Hazel Dormouse are entirely absent from Scotland)). The licence is to allow derogation from the legislation through the application of appropriate mitigation measures and monitoring.

White clawed crayfish

There is a considerable amount of legislation in place in an attempt to protect the White-clawed crayfish *Austropotamobius pallipes*. This species is listed under the European Union's (EU) Habitat and Species Directive and is listed under Schedule 5 of the Wildlife and Countryside Act (1981). This makes it an offence to:

- Protected against intentional or reckless taking
- Protected against selling, offering or advertising for sale, possessing or transporting for the purpose of sale

It is also classified as Endangered in the IUCN Red List of Endangered Species. As a result of this and other relevant crayfish legislation such as the Prohibition of Keeping of Live Fish (Crayfish) Order 1996, a series of licences are needed for working with White-clawed and non-native crayfish. These are:

- A licence to handle crayfish (therefore survey work) in England
- A licence for the keeping of crayfish in England and Wales with an exemption for Signal crayfish (England).
- People in the post-code areas listed with crayfish present prior to 1996 do not need to apply for consent for crayfish already established. It does not, however, allow any new stocking of non-native crayfish into waterbodies. Consent for trapping of non-native crayfish for control or consumption is most likely to be granted in Thames and Anglian regions in the areas with "go area" postcodes.
- Harvesting of crayfish is prohibited in much of England and in any part of Scotland and Wales.

Effects on development works:

The relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) will need to be consulted about development which could impact on a watercourse or wetland known to support white clawed crayfish. Conservation licences for the capture and translocation of crayfish can be issued if it can be shown that the activity has been properly planned and executed and thereby contributes to the conservation of the population. The licence will only be granted to a suitably experienced person if it can be shown that adequate surveys have been undertaken to inform appropriate mitigation measures. Identification and preparation of a suitable receptor site will be necessary prior to the commencement of the works.

Wild Mammals (Protection Act) 1996

All wild mammals are protected against intentional acts of cruelty under the above legislation. This makes it an offence to mutilate, kick, beat, nail or otherwise impale, stab, burn, stone, crush, drown, drag or asphyxiate any wild mammal with intent to inflict unnecessary suffering.

To avoid possible contravention, due care and attention should be taken when carrying out works (for example operations near burrows or nests) with the potential to affect any wild mammal in this way, regardless of whether they are legally protected through other conservation legislation or not.

Legislation afforded to Plants

With certain exceptions, all wild plants are protected under the WCA. This makes it an offence for an 'unauthorised' person to intentionally (or recklessly in Scotland) uproot wild plants. An authorised person can be the owner of the land on which the action is taken, or anybody authorised by them.

Certain rare species of plant, for example some species of orchid, are also fully protected under Schedule 8 of the Wildlife and Countryside Act 1981 (as amended). This prohibits any person from:

- Intentionally (or recklessly in Scotland) picking, uprooting or destruction of any wild Schedule 8 species (or seed or spore attached to any such wild plant in Scotland only)
- Selling, offering or exposing for sale, or possessing or transporting for the purpose of sale, any wild live or dead Schedule 8 plant species or part thereof
- In addition to the UK legislation outlined above, several plant species are fully protected under Schedule 5 of The Conservation of Habitats and Species Regulations 2010. These are species of European importance. Regulation 45 makes it an offence to:
 - Deliberately pick, collect, cut, uproot or destroy a wild Schedule 5 species
 - Be in possession of, or control, transport, sell or exchange, or offer for sale or exchange any wild live or dead Schedule 5 species or anything derived from such a plant.

Effects on development works:

An EPSM licence will be required from the relevant countryside agency (i.e. Natural England, Natural Resources Wales, Scottish Natural Heritage) for works which are likely to affect species of planted listed on Schedule 5 of the Conservation of Habitats and Species Regulations 2010. The licence is to allow derogation from the legislation through the application of appropriate mitigation measures and monitoring.

Invasive Species

Part II of Schedule 9 of the WCA lists non-native invasive plant species for which it is a criminal offence in England and Wales to plant or cause to grow in the wild due to their impact on native wildlife. Species included (but not limited to):

- Japanese knotweed *Fallopia japonica*
- Giant hogweed *Heracleum mantegazzianum*
- Himalayan balsam *Impatiens glandulifera*

Effects on development works:

It is not an offence for plants listed in Part II of Schedule 9 of the WCA 1981 to be present on the development site, however, it is an offence to cause them to spread. Therefore, if any of the species are present on site and construction activities may result in further spread (e.g. earthworks, vehicle movements) then it will be necessary to design and implement appropriate mitigation prior to construction commencing.

Injurious weeds

Under the Weeds Act 1959 any land owner or occupier may be required prevent the spread of certain 'injurious weeds' including (but not limited to):

- Spear thistle *Cirsium vulgare*
- Creeping thistle *Cirsium arvense*
- Curled dock *Rumex crispus*
- Broad-leaved dock *Rumex obtusifolius*
- Common ragwort *Senecio jacobaea*

It is a criminal offence to fail to comply with a notice requiring such action to be taken. The Ragwort Control Act 2003 establishes a ragwort control code of practice as common ragwort is poisonous to horses and other livestock. This code provides best practice guidelines and is not legally binding.

National Planning Policy Framework (ENGLAND)

The following sections are relevant to the report:

Making effective use of land

118. Planning policies and decisions should: a) encourage multiple benefits from both urban and rural land, including through mixed use schemes and taking opportunities to achieve net environmental gains – such as developments that would enable new habitat creation or improve public access to the countryside;

Conserving and enhancing the natural environment

170. Planning policies and decisions should contribute to and enhance the natural and local environment by: a) protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan); b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland; c) maintaining the character of the undeveloped coast, while improving public access to it where appropriate; d) minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures; e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

171. Plans should: distinguish between the hierarchy of international, national and locally designated sites; allocate land with the least environmental or amenity value, where consistent with other policies in this Framework⁵³; take a strategic approach to maintaining and enhancing networks of habitats and green infrastructure; and plan for the enhancement of natural capital at a catchment or landscape scale across local authority boundaries.

Habitats and biodiversity

174. To protect and enhance biodiversity and geodiversity, plans should: a) Identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity⁵⁶; wildlife corridors and stepping stones that connect them; and areas identified by national and local partnerships for habitat management, enhancement, restoration or creation⁵⁷; and b) promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity.

175. When determining planning applications, local planning authorities should apply the following principles: a) if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts) adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused; b) development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest; c) development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists; **and d)**

development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to incorporate biodiversity improvements in and around developments should be encouraged, especially where this can secure measurable net gains for biodiversity.

176. The following should be given the same protection as habitats sites: a) potential Special Protection Areas and possible Special Areas of Conservation; b) listed or proposed Ramsar sites⁵⁹; and c) sites identified, or required, as compensatory measures for adverse effects on habitats sites, potential Special Protection Areas, possible Special Areas of Conservation, and listed or proposed Ramsar sites.

177. The presumption in favour of sustainable development does not apply where the plan or project is likely to have a significant effect on a habitats site (either alone or in combination with other plans or projects), unless an appropriate assessment has concluded that the plan or project will not adversely affect the integrity of the habitats site.

Our Reference: **ENQ/21/301**
Your Reference: **Holly Cottage Development**

Kent and Medway Biological Records Centre
report regarding
Holly Cottage Development.

on behalf of
Gordon McQuade
Gordon McQuade Architect

06/07/2021

This report is not a comprehensive ecological survey of the area in question, but can usefully form part of desktop studies to assist competent persons in ecological assessments to determine species and/or habitats reasonably likely to be present in a particular area.

This report was compiled using data held at KMBRC at the time of printing. The KMBRC takes data validation seriously but cannot be held responsible for the accuracy of the data included in this report.

Enclosed within this report is the following information specific to the enquiry site :

- Protected Species Inventory ☒
- Kent Rare and Scarce Species Inventory ☒
- Conservation Concern Species Inventory ☒
- Invasive Species List ☒
- SSSI Risk Zones map and report ☐
- Bird List ☒
- Bat List ☒
- Bat Roost Map ☒
- Designated Areas Map ☒
- Kent Habitat Survey Map ☐
- Biodiversity Action Plan Habitat Map ☐

Bespoke Reports:

Protected Species Inventory

Brogdale Farm Office, Brogdale Road, Faversham ME13 8XZ
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Web: www.kmbrc.org.uk



**Biological
Records Centre**

Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/21/301

2km radius search surrounding - TQ6436165935

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Piptoporus quercinus</i>	Oak polypore	WCA8, CRoW	SR00026500005SA9	28/07/2013	TQ631646	Lullingstone Castle
<i>Galanthus nivalis</i>	Snowdrop	ECH_V, CITES	SR00026500002H80	11/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Galanthus nivalis</i>	Snowdrop	"	SR0001450001NA8M	27/01/2015	TQ6664	Great Buckland north west - Coomb Hill
<i>Galanthus nivalis</i>	Snowdrop	"	SR000266000090YN	1991 - 2000	TQ66S	Great Buckland
<i>Hyacinthoides non-scripta</i>	Bluebell	WCA8	SR0001450002HE4N	24/07/2016	TQ6264	Meopham Green south west - New Street
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450002HE5X	06/10/2016	TQ6265	Meopham Elbows Wood
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500006GTE	04/10/2016	TQ628653	Elbows Wood,etc, Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500003JX9	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003Z2SV	27/06/2019	TQ6363	Culverstone Green north - South Street
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450001MXKY	08/04/2014	TQ6364	Meopham Green south - West Lodge
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450002HXDV	24/07/2016	TQ6364	Meopham Green south - West Lodge
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450002HXDF	12/06/2016	TQ6366	Meopham north west - Shipley Hills
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500002HGO	22/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500002H82	11/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00027800000IBF	12/05/1956	TQ643641	Steeles Wood, S. of Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500003OFN	30/05/2006	TQ643648	Happy Valley, Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500006LOM	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003C7AA	22/08/2017	TQ6463	Culverstone Green north east
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450001MXKX	08/04/2014	TQ6464	Meopham Green south east - David Street

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003DCA6	27/08/2017	TQ6467	Hook Green - Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003DCAR	27/08/2017	TQ6467	Hook Green - Meopham
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003D3I1	15/04/2017	TQ6564	Priestwood
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003BZW8	15/04/2017	TQ6565	Meopham east - Foxendown
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003C7EJ	27/08/2017	TQ6567	Sole Street - Camer
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450001NMSO	19/01/2015	TQ6567	Sole Street - Camer
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500002SB3	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026500002IFQ	12/05/2001	TQ66	Trosley Country Park, Trottiscliffe
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00014500018KFR	01/01/1987	TQ663665	Henley Wood and pasture
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450003CBM1	15/04/2017	TQ6665	Luddesdown south
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450001NMSR	27/01/2015	TQ6666	Luddesdown
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0001450001NMSN	19/01/2015	TQ6667	Luddesdown north - Gold Street - Henley Street west
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600008YWY	1991 - 2000	TQ66G	Culverstone Green
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600008Z79	1991 - 2000	TQ66H	Elbows Wood
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600008ZEA	1991 - 2000	TQ66I	Orange Hill
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600008ZVD	1991 - 2000	TQ66L	Harvel
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600008ZZ5	1991 - 2000	TQ66M	Meopham Green
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600009026	1991 - 2000	TQ66N	Sole Street
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR000266000090Z5	1991 - 2000	TQ66S	Great Buckland
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR0002660000915A	1991 - 2000	TQ66T	Luddesdown
Ruscus aculeatus	Butcher's-broom	ECH_V	SR0001450002HQ2O	04/10/2016	TQ6265	Meopham Elbows Wood
<i>Ruscus aculeatus</i>	Butcher's-broom	"	SR00026500006GVB	04/10/2016	TQ628653	Elbows Wood,etc, Meopham
<i>Ruscus aculeatus</i>	Butcher's-broom	"	SR00026600008Z65	1991 - 2000	TQ66H	Elbows Wood
Anacamptis pyramidalis	Pyramidal Orchid	CITES	SR00026500006VZ9	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00026500006Y19	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR0001450003Z0JY	27/06/2019	TQ6363	Culverstone Green north - South Street
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR0001450003C795	22/08/2017	TQ6463	Culverstone Green north east
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00026500002S9Z	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00014500018KFE	01/01/1987	TQ663665	Henley Wood and pasture
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00026600007LIP	15/06/2001	TQ66H	Elbows Wood
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00026600008ZOR	1991 - 2000	TQ66L	Harvel
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00026600008ZWJ	1991 - 2000	TQ66M	Meopham Green
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR00026600009134	1991 - 2000	TQ66S	Great Buckland
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	"	SR0002660000919J	1991 - 2000	TQ66T	Luddesdown
Cephalanthera damasonium	White Helleborine	CITES	SR00027800000IAW	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026500002DWK	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR0001450000RNBH	13/06/2010	TQ6463	Culverstone Green north east
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR0001450000RNBP	13/06/2010	TQ6463	Culverstone Green north east

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<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00014500018KAV	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600008Z3P	1991 - 2000	TQ66H	Elbows Wood
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600008ZS4	1991 - 2000	TQ66L	Harvel
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600007LHX	01/06/2001	TQ66S	Great Buckland
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR0002660000914I	1991 - 2000	TQ66T	Luddesdown
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	CITES	SR00026500003JXE	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR00026500003JZ3	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR00026500002DVY	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR0001450003CYQC	22/08/2017	TQ6463	Culverstone Green north east
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR00014500018K9X	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	DSS0041900000TJ2	27/06/2015	TQ66	Holly Hill
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR00026500002S9U	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR00026600008ZT5	1991 - 2000	TQ66L	Harvel
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR00026600008ZZH	1991 - 2000	TQ66M	Meopham Green
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	"	SR000266000090YQ	1991 - 2000	TQ66S	Great Buckland
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	CITES	SR00026500006Y1R	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	"	SR00027800000IB4	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	"	SR00026500006LO8	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	"	SR00026500002DWI	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	"	SR0001450003C79C	22/08/2017	TQ6463	Culverstone Green north east
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	"	SR00026600008ZOZ	1991 - 2000	TQ66L	Harvel
<i>Gymnadenia conopsea</i>	Fragrant Orchid	CITES	SR00014500018K9W	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Gymnadenia conopsea</i>	Fragrant Orchid	"	DSS0041900000TJ3	27/06/2015	TQ66	Holly Hill
<i>Gymnadenia conopsea</i>	Fragrant Orchid	"	SR00026600007LHU	01/06/2001	TQ66S	Great Buckland
<i>Herminium monorchis</i>	Musk Orchid	CITES	DSS0041900000TIP	27/06/2015	TQ66	Holly Hill
<i>Herminium monorchis</i>	Musk Orchid	"	SR00014500000R26	1954	TQ66	Trottiscliffe
<i>Herminium monorchis</i>	Musk Orchid	"	SR00014500018KFM	01/01/1987	TQ663665	Henley Wood and pasture
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	CITES	SR00026500006LQH	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	"	SR0001450003CYQ3	22/08/2017	TQ6463	Culverstone Green north east
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	"	DSS0041900000VH0	22/08/2017	TQ66	Happy Valley
<i>Neottia ovata</i>	Common Twayblade	CITES	SR00026500003JX1	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Neottia ovata</i>	Common Twayblade	"	SR00026500002IF5	12/05/2001	TQ66	Trosley Country Park, Trottiscliffe
<i>Neottia ovata</i>	Common Twayblade	"	DSS0041900000TJ4	27/06/2015	TQ66	Holly Hill
<i>Neottia ovata</i>	Common Twayblade	"	SR00026600008ZP9	1991 - 2000	TQ66L	Harvel
<i>Neottia ovata</i>	Common Twayblade	"	SR00026600008ZWQ	1991 - 2000	TQ66M	Meopham Green
<i>Neottia ovata</i>	Common Twayblade	"	SR00026600007LHV	01/06/2001	TQ66S	Great Buckland
<i>Ophrys apifera</i>	Bee Orchid	CITES	SR00026500002DWC	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Ophrys apifera</i>	Bee Orchid	"	SR00026500002SAN	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Ophrys apifera</i>	Bee Orchid	"	SR00026600008ZQ0	1991 - 2000	TQ66L	Harvel
<i>Ophrys apifera</i>	Bee Orchid	"	SR0002660000900Q	1991 - 2000	TQ66M	Meopham Green

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<i>Ophrys insectifera</i>	Fly Orchid	CITES	SR00027800000IC8	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026500002DW1	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR0001450000RX8L	13/06/2010	TQ6463	Culverstone Green north east
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00014500018KAX	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026600008ZOY	1991 - 2000	TQ66L	Harvel
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026600008ZYC	1991 - 2000	TQ66M	Meopham Green
<i>Ophrys insectifera</i>	Fly Orchid	"	SR000266000090ZT	1991 - 2000	TQ66S	Great Buckland
<i>Orchis anthropophora</i>	Man Orchid	CITES	SR00026500002DWH	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Orchis anthropophora</i>	Man Orchid	"	SR0001450000RSYE	13/06/2010	TQ6463	Culverstone Green north east
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000R14	1951	TQ66	Wrotham nr
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000QAN	1837	TQ66	
<i>Orchis anthropophora</i>	Man Orchid	"	DSS0041900000TJ1	27/06/2015	TQ66	Holly Hill
<i>Orchis anthropophora</i>	Man Orchid	"	SR00026600008ZUC	1991 - 2000	TQ66L	Harvel
<i>Orchis anthropophora</i>	Man Orchid	"	SR000266000090ZU	1991 - 2000	TQ66S	Great Buckland
<i>Orchis mascula</i>	Early-purple Orchid	CITES	SR00026500003JX2	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Orchis mascula</i>	Early-purple Orchid	"	SR0001450002HYTV	12/06/2016	TQ6366	Meopham north west - Shipley Hills
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00027800000IBM	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00026500002DWA	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00014500018KAW	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00026500002IFE	12/05/2001	TQ66	Trosley Country Park, Trottiscliffe
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00014500018KG0	01/01/1987	TQ663665	Henley Wood and pasture
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00026600007PFM	23/01/2004	TQ66I	Orange Hill
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00026600008ZRS	1991 - 2000	TQ66L	Harvel
<i>Orchis mascula</i>	Early-purple Orchid	"	SR00026600008ZXT	1991 - 2000	TQ66M	Meopham Green
<i>Orchis mascula</i>	Early-purple Orchid	"	SR0002660000917Q	1991 - 2000	TQ66T	Luddesdown
<i>Orchis purpurea</i>	Lady Orchid	CITES	SR0001450000RX9N	16/05/2010	TQ6463	Culverstone Green north east
<i>Orchis purpurea</i>	Lady Orchid	"	SR00014500000R13	1951	TQ66	Wrotham nr
<i>Orchis purpurea</i>	Lady Orchid	"	SR00026600008ZOL	1991 - 2000	TQ66L	Harvel
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	CITES	SR0001450000RXQR	13/06/2010	TQ6463	Culverstone Green north east
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR0001450000RXR1	13/06/2010	TQ6463	Culverstone Green north east
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR0001450000RXR7	13/06/2010	TQ6463	Culverstone Green north east
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR0001450000RXQS	10/06/2010	TQ6564	Priestwood
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR00026600008ZSG	1991 - 2000	TQ66L	Harvel
<i>Cyclamen hederifolium</i>	Sowbread	CITES	SR0001450003DBXD	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Gentianella anglica</i>	Early Gentian	ECH_II, ECH_IV, Bern I, WCA8	SR00014500000RR0	1971	TQ66	Trottiscliffe
<i>Satyrrium w-album</i>	White-letter Hairstreak	WCA5(p)	SR00026600009981	11/05/2002	TQ66H	
<i>Euplagia quadripunctaria</i>	Jersey Tiger	Bern_II	SR0001450004CYMU	27/08/2019	TQ64496551	Lomer Fm

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Euplagia quadripunctaria</i>	Jersey Tiger	"	SR0001450004CYMW	31/08/2019	TQ64506552	Lomer Fm
<i>Euplagia quadripunctaria</i>	Jersey Tiger	"	SR0001450004CYMY	03/09/2019	TQ64506552	Lomer Fm
Bufo bufo	Common Toad	WCA5(p)	SR0001450004AVV1	March 2009	TQ645671	[Private Residence]
<i>Bufo bufo</i>	Common Toad	"	SR0001450004AVV2	2008	TQ645671	[Private Residence]
<i>Bufo bufo</i>	Common Toad	"	SR000266000044CJ	31/01/1993	TQ66G	Culverstone Green
Rana temporaria	Common Frog	ECH_V, Bern_III, WCA5(p)	SR0001450004B16F	11/06/2019	TQ64506717	No Site Name Provided
<i>Rana temporaria</i>	Common Frog	"	SR0001450004AVV0	March 2009	TQ645671	[Private Residence]
<i>Rana temporaria</i>	Common Frog	"	SR0001450004B99E	March 2009	TQ645671	[Private Residence]
<i>Rana temporaria</i>	Common Frog	"	SR0002660000A757	24/10/2011	TQ6664	
<i>Rana temporaria</i>	Common Frog	"	SR00026600003KCM	02/07/2004	TQ66G	Culverstone Green
Triturus cristatus	Great Crested Newt	ECH_II, Bern_II, WCA5, CRoW	SR00026600003R8H	1981 - 1990	TQ66T	Luddesdown
Anguis fragilis	Slow-worm	Bern_III, WCA5(p)	SR00026500003K0H	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
Zootoca vivipara	Common Lizard	Bern_III, WCA5(p)	SR0001450004ARFS	01/10/2010	TQ652662	Camer Country Park
Natrix helvetica	Grass Snake	Bern_III, WCA5(p)	SR0001450004B8E5	12/07/2006	TQ645656	[Private Residence]
<i>Natrix helvetica</i>	Grass Snake	"	SR0001450004AVSS	13/06/2007	TQ648660	[Private Residence]
Meles meles	Eurasian Badger†	Bern_III, Badger Act	SR00026500003K0J	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR00026500006Y17	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR0004050000021S	26/05/1970	TQ6364	Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR00040500000256	01/04/1982	TQ6367	Longfield
<i>Meles meles</i>	Eurasian Badger	"	SR00014500005UZD	12/01/2004	TQ637642	Wrotham Rd
<i>Meles meles</i>	Eurasian Badger	"	SR00014500005VTH	23/10/2000	TQ638672	Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR000405000012K1	27/06/2013	TQ63876486	
<i>Meles meles</i>	Eurasian Badger	"	SR00026500002H7A	11/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR00026500003OEL	30/05/2006	TQ643648	Happy Valley, Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR000405000006G0	01/10/2011	TQ643672	meopham
<i>Meles meles</i>	Eurasian Badger	"	SR00040500000261	29/09/1987	TQ6464	Meopham Green
<i>Meles meles</i>	Eurasian Badger	"	SR00014500005VNF	21/06/2000	TQ653647	Priestwood, Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR00014500018KAN	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Meles meles</i>	Eurasian Badger	"	SR00040500002L6F	02/08/2016	TQ66	
<i>Meles meles</i>	Eurasian Badger	"	SR00014500018KFT	01/01/1987	TQ663665	Henley Wood and pasture
<i>Meles meles</i>	Eurasian Badger	"	SR00026600003836	17/09/1999	TQ66G	Culverstone Green
<i>Meles meles</i>	Eurasian Badger	"	SR00040500000275	31/01/1993	TQ66G	Calvestone
<i>Meles meles</i>	Eurasian Badger	"	SR000266000044CP	31/01/1993	TQ66G	Culverstone Green
<i>Meles meles</i>	Eurasian Badger	"	SR00026600003E66	24/09/2001	TQ66G	Culverstone Green
<i>Meles meles</i>	Eurasian Badger	"	SR000266000035E4	April 1999	TQ66H	Elbows Wood
<i>Meles meles</i>	Eurasian Badger	"	SR00026600002Y0J	16/04/1997	TQ66I	Orange Hill
<i>Meles meles</i>	Eurasian Badger	"	SR00026600003CEX	23/10/2000	TQ66I	Orange Hill

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<i>Meles meles</i>	Eurasian Badger	"	SR00026600003C0K	01/09/2000	TQ66I	Orange Hill
<i>Meles meles</i>	Eurasian Badger	"	SR00026600003AJW	21/06/2000	TQ66M	Meopham Green
<i>Meles meles</i>	Eurasian Badger	"	SR0004050000024P	17/09/1983	TQ66S	Luddesdown
<i>Meles meles</i>	Eurasian Badger	"	SR00026600009B9C	09/03/2005	TQ66T	
<i>Meles meles</i>	Eurasian Badger	"	SR00026600003G8B	07/08/2002	TQ66T	Luddesdown
<i>Meles meles</i>	Eurasian Badger	"	SR000266000034K0	02/09/1998	TQ66T	Luddesdown
<i>Meles meles</i>	Eurasian Badger	"	SR000266000036YJ	02/07/1999	TQ66T	Luddesdown
<i>Mustela erminea</i>	Stoat	Bern_III	SR000405000001LC	06/06/1969	TQ6463	Harvel
<i>Mustela erminea</i>	Stoat	"	SR000405000001KM	1966	TQ6466	Upper Halling
<i>Mustela erminea</i>	Stoat	"	SR00040500002LX6	02/06/2017	TQ65676710	Sole Street Camer Park
<i>Plecotus auritus</i>	Brown Long-eared Bat[#]	ECH_IV, Bonn_II, Bern_II, WCA5	SR000266000044I5	27/03/1993	TQ66G	Culverstone Green
<i>Plecotus auritus</i>	Brown Long-eared Bat	"	SR000266000041AT	19/05/1991	TQ66M	Meopham Green
<i>Plecotus auritus</i>	Brown Long-eared Bat	"	SR000266000042KD	14/09/1991	TQ66N	Sole Street
<i>Erinaceus europaeus</i>	West European Hedgehog	Bern_III	SR000405000015B1	30/05/2013	TQ633675	
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00014500005VWH	24/12/2000	TQ638671	Hook Green, Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00014500005UZ5	11/10/2002	TQ641678	A227 Meopham Station
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0001450000P06V	26/05/2010	TQ642658	Meopham School
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000011FK	26/05/2010	TQ642658	Meopham School
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFG	12/11/2018	TQ64386766	Meopham DA13 ONF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFI	11/11/2018	TQ64386766	Meopham DA13 ONF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFE	30/10/2018	TQ644676	Meopham DA13 ONF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000012K4	06/07/2013	TQ64596744	
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000FG	26/08/1974	TQ6465	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00027800000C4V	2005	TQ646658	Arnold Avenue, Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500000035	19/05/1964	TQ6467	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000BZ	23/05/1971	TQ6664	Great Buckland
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003D6H	16/06/2001	TQ66G	Culverstone Green
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000331Q	July 1998	TQ66G	Culverstone Green
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000034XP	December 1998	TQ66H	Elbows Wood
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003CIW	24/12/2000	TQ66I	Orange Hill
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003EEF	30/12/2001	TQ66L	Harvel
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000H1	29/05/1978	TQ66N	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000JC	06/09/1980	TQ66T	Sole Street
<i>Sorex araneus</i>	Eurasian Common Shrew	Bern_III	SR00014500007SVA	02/09/2005	TQ6465	
<i>Sorex araneus</i>	Eurasian Common Shrew	"	SR0002660000460N	04/08/1993	TQ66T	Luddesdown
<i>Muscardinus avellanarius</i>	Hazel Dormouse	ECH_IV, Bern_III, WCA5, CRoW	SR00040500001520	30/10/2013	TQ660666	henley wood, sole street

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EU	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EV	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EW	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EX	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L1	20/04/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L2	18/07/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L3	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L4	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L5	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L6	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000004BF	17/05/1965	TQ6664	Great Buckland
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR00026600003BW0	23/08/2000	TQ66T	Luddesdown

[#] The prominent bat dataset is displayed in the enclosed Kent Bat Group Bat Report.

[†] The prominent badger dataset is held with another recording group, please refer to cover sheets for further details.

Gravesham Borough

Kent Rare & Scarce Species Inventory

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**Biological
Records Centre**

Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/20/301

2km radius search surrounding - TQ6436165935

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Sarcoscypha austriaca</i>	Sarcoscypha austriaca	Kent RDB3	SR00026500002H8E	11/02/2001	TQ640645	on dead yew
<i>Sarcoscypha austriaca</i>	Sarcoscypha austriaca	"	SR00026500002HG0	22/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Daldinia fissa</i>	Gorse Cramp Ball	Kent RDB2	SR00026500005MH6	04/11/2012	TQ66	Cuxton
<i>Amanita eliae</i>	Amanita eliae	Kent RDB1	SR00026500002JCO	11/08/2001	TQ66	Trosley Country Park, Trottiscliffe
<i>Cortinarius infractus</i>	Bitter Webcap	Kent RDB3	SR00026500002APO	19/10/1999	TQ643648	Happy Valley, Meopham
<i>Entoloma bloxamii</i>	Big Blue Pinkgill	Kent RDB1	SR000265000033YU	1984 - 1995	TQ66	Trosley Country Park, Trottiscliffe
<i>Pluteus aurantiorugosus</i>	Flame Shield	Kent RDB1	SR00026500006XHW	28/10/2019	TQ653668	Camer Country Park, Meopham
<i>Tricholoma atosquamosum</i>	Tricholoma atosquamosum	Kent RDB1	SR00026500002LDY	21/10/2001	TQ660655	New Ash Green environs
<i>Tricholoma atosquamosum</i>	Tricholoma atosquamosum	"	SR00026500002M1C	2002	TQ660655	New Ash Green environs
<i>Leccinum scabrum</i>	Blushing Bolete	RedList_GB_post2001-DD	SR000265000033XT	1984 - 1995	TQ66	Trosley Country Park, Trottiscliffe
<i>Leccinum scabrum</i>	Blushing Bolete	"	SR00026500002M2C	2002	TQ660655	New Ash Green environs
<i>Coriolopsis gallica</i>	Brownflesh Bracket	Kent RDB3	SR00026500002H8B	11/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Coriolopsis gallica</i>	Brownflesh Bracket	"	SR00026500002CH5	11/02/2000	TQ655670	Camer Country Park, Meopham
<i>Coriolopsis gallica</i>	Brownflesh Bracket	"	SR00026500002D9Q	12/05/2000	TQ66	Upper Halling
<i>Coriolopsis gallica</i>	Brownflesh Bracket	"	SR00026500003425	1984 - 1995	TQ66	Trosley Country Park, Trottiscliffe
<i>Skeletocutis carneogrisea</i>	Skeletocutis carneogrisea	Kent RDB2	SR00026500002AXJ	03/11/1999	TQ66	Trosley Country Park, Trottiscliffe
<i>Peltigera rufescens</i>	Peltigera rufescens	Kent RDB1	SR00014500018KA3	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Physcia aipolia</i>	Physcia aipolia	Kent RDB1	SR00026500002CH0	11/02/2000	TQ655670	Camer Country Park, Meopham
<i>Juniperus communis</i>	Juniper	RedList_ENG_post2001-NT	DSS0041900000TJ9	27/06/2015	TQ66	Holly Hill
<i>Juniperus communis</i>	Juniper	"	SR00026600008ZX2	1991 - 2000	TQ66M	Meopham Green
<i>Pinus sylvestris</i>	Scots Pine	NS-excludes	SR00026600008Z39	1991 - 2000	TQ66H	Elbows Wood
<i>Pinus sylvestris</i>	Scots Pine	"	SR000266000099AL	28/01/2005	TQ66N	
<i>Pinus sylvestris</i>	Scots Pine	"	SR0002660000911J	1991 - 2000	TQ66S	Great Buckland

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Pinus sylvestris</i>	Scots Pine	"	SR0002660000916O	1991 - 2000	TQ66T	Luddesdown
<i>Sanicula europaea</i>	Sanicle	RedList_ENG_post2001-NT	SR00026500003JZY	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Sanicula europaea</i>	Sanicle	"	SR00026500002HFX	22/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Sanicula europaea</i>	Sanicle	"	SR00027800000IBW	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Sanicula europaea</i>	Sanicle	"	SR00014500003CR7D	15/04/2017	TQ6564	Priestwood
<i>Sanicula europaea</i>	Sanicle	"	SR00014500001NUN5	29/11/2015	TQ6565	Meopham east - Foxendown
<i>Sanicula europaea</i>	Sanicle	"	SR00026500002IFI	12/05/2001	TQ66	Trosley Country Park, Trottiscliffe
<i>Sanicula europaea</i>	Sanicle	"	SR00026600008ZTC	1991 - 2000	TQ66L	Harvel
<i>Sanicula europaea</i>	Sanicle	"	SR00026600008ZYV	1991 - 2000	TQ66M	Meopham Green
<i>Sanicula europaea</i>	Sanicle	"	SR00026600007LHZ	01/06/2001	TQ66S	Great Buckland
<i>Sanicula europaea</i>	Sanicle	"	SR0002660000918E	1991 - 2000	TQ66T	Luddesdown
<i>Scandix pecten-veneris</i>	Shepherd's-needle	Kent RDB3, RedList_ENG_post2001-EN, RedList_GB_post2001-CR	SR00014500000QK4	1902	TQ66	Cobham
<i>Torilis arvensis</i>	Spreading Hedge-parsley	NS-excludes, RedList_ENG_post2001-EN	SR00014500000QE2	1875	TQ66	Snodland roadside nr
<i>Cephalanthera damasonium</i>	White Helleborine	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00027800000IAW	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026500002DWK	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00014500000RNB	13/06/2010	TQ6463	Culverstone Green north east
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00014500000RNB	13/06/2010	TQ6463	Culverstone Green north east
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR000145000018KAV	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600008Z3P	1991 - 2000	TQ66H	Elbows Wood
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600008ZS4	1991 - 2000	TQ66L	Harvel
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600007LHX	01/06/2001	TQ66S	Great Buckland
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR0002660000914I	1991 - 2000	TQ66T	Luddesdown
<i>Herminium monorchis</i>	Musk Orchid	NS-excludes, RedList_ENG_post2001-EN, RedList_GB_post2001-VU	DSS0041900000TIP	27/06/2015	TQ66	Holly Hill
<i>Herminium monorchis</i>	Musk Orchid	"	SR00014500000R26	1954	TQ66	Trottiscliffe
<i>Herminium monorchis</i>	Musk Orchid	"	SR000145000018KFM	01/01/1987	TQ663665	Henley Wood and pasture

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	RedList_ENG_post2001-VU, RedList_GB_post2001-NT	SR00026500006LQH	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	"	SR0001450003CYQ3	22/08/2017	TQ6463	Culverstone Green north east
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	"	DSS0041900000VH0	22/08/2017	TQ66	Happy Valley
<i>Ophrys insectifera</i>	Fly Orchid	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00027800000IC8	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026500002DW1	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR0001450000RX8L	13/06/2010	TQ6463	Culverstone Green north east
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00014500018KAX	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026600008ZOY	1991 - 2000	TQ66L	Harvel
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026600008ZYC	1991 - 2000	TQ66M	Meopham Green
<i>Ophrys insectifera</i>	Fly Orchid	"	SR000266000090ZT	1991 - 2000	TQ66S	Great Buckland
<i>Orchis anthropophora</i>	Man Orchid	NS-excludes, RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00026500002DWH	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000RSYE	13/06/2010	TQ6463	Culverstone Green north east
<i>Orchis anthropophora</i>	Man Orchid	"	DSS0041900000TJ1	27/06/2015	TQ66	Holly Hill
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000QAN	1837	TQ66	
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000R14	1951	TQ66	Wrotham nr
<i>Orchis anthropophora</i>	Man Orchid	"	SR00026600008ZUC	1991 - 2000	TQ66L	Harvel
<i>Orchis anthropophora</i>	Man Orchid	"	SR000266000090ZU	1991 - 2000	TQ66S	Great Buckland
<i>Orchis purpurea</i>	Lady Orchid	NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR0001450000RX9N	16/05/2010	TQ6463	Culverstone Green north east
<i>Orchis purpurea</i>	Lady Orchid	"	SR00014500000R13	1951	TQ66	Wrotham nr
<i>Orchis purpurea</i>	Lady Orchid	"	SR00026600008ZOL	1991 - 2000	TQ66L	Harvel
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	RedList_GB_post2001-NT	SR0001450000RXQR	13/06/2010	TQ6463	Culverstone Green north east
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR0001450000RXR1	13/06/2010	TQ6463	Culverstone Green north east
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR0001450000RXR7	13/06/2010	TQ6463	Culverstone Green north east
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR0001450000RXQS	10/06/2010	TQ6564	Priestwood
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	"	SR00026600008ZSG	1991 - 2000	TQ66L	Harvel

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Anthemis cotula</i>	Stinking Chamomile	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR0002660000912S	1991 - 2000	TQ66S	Great Buckland
<i>Anthemis cotula</i>	Stinking Chamomile	"	SR0002660000917E	1991 - 2000	TQ66T	Luddesdown
<i>Carlina vulgaris</i>	Carlina Thistle	RedList_ENG_post2001-NT	SR00026500003JYV	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR0001450003C79M	22/08/2017	TQ6463	Culverstone Green north east
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR00014500018K9T	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR00026500002S9S	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR00014500018KFU	01/01/1987	TQ663665	Henley Wood and pasture
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR0001450001MRUX	27/01/2015	TQ6666	Luddesdown
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR00026600008ZOF	1991 - 2000	TQ66L	Harvel
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR00026600008ZVV	1991 - 2000	TQ66M	Meopham Green
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR000266000090WZ	1991 - 2000	TQ66S	Great Buckland
<i>Carlina vulgaris</i>	Carlina Thistle	"	SR0002660000919E	1991 - 2000	TQ66T	Luddesdown
<i>Cichorium intybus</i>	Chicory	RedList_ENG_post2001-VU	SR0001450003YTCM	27/06/2019	TQ6363	Culverstone Green north - South Street
<i>Cichorium intybus</i>	Chicory	"	SR0001450002HKP3	24/07/2016	TQ6364	Meopham Green south - West Lodge
<i>Cichorium intybus</i>	Chicory	"	SR0001450002HKP2	24/07/2016	TQ6365	Meopham west
<i>Cichorium intybus</i>	Chicory	"	SR0001450003D7T8	01/07/2017	TQ6367	Longfield Hill south east - Gorse Bottom
<i>Cichorium intybus</i>	Chicory	"	SR0001450003CFR9	01/07/2017	TQ6367	Longfield Hill south east - Gorse Bottom
<i>Cichorium intybus</i>	Chicory	"	SR0001450003C78V	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Cichorium intybus</i>	Chicory	"	SR0001450002HKOO	09/08/2016	TQ6466	Meopham north
<i>Cichorium intybus</i>	Chicory	"	SR0001450003DC9S	27/08/2017	TQ6567	Sole Street - Camer
<i>Cichorium intybus</i>	Chicory	"	SR0001450003YZSB	07/04/2019	TQ6666	Luddesdown
<i>Cichorium intybus</i>	Chicory	"	SR00026600008Z0H	1991 - 2000	TQ66G	Culverstone Green
<i>Cichorium intybus</i>	Chicory	"	SR00026600008ZA5	1991 - 2000	TQ66I	Orange Hill
<i>Cichorium intybus</i>	Chicory	"	SR00026600009174	1991 - 2000	TQ66T	Luddesdown
<i>Campanula patula</i>	Spreading Bellflower	NS-excludes, RedList_ENG_post2001-CR, RedList_GB_post2001-EN	SR00014500000QGY	1899	TQ66	Cobham
<i>Campanula rotundifolia</i>	Harebell	RedList_ENG_post2001-NT	SR00026500006LNQ	22/08/2017	TQ643648	Happy Valley, Meopham

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Campanula rotundifolia</i>	Harebell	"	SR0001450003C79J	22/08/2017	TQ6463	Culverstone Green north east
<i>Campanula rotundifolia</i>	Harebell	"	SR00026600008Z2L	1991 - 2000	TQ66H	Elbows Wood
<i>Campanula rotundifolia</i>	Harebell	"	SR00026600008ZRF	1991 - 2000	TQ66L	Harvel
<i>Iberis amara</i>	Wild Candytuft	Kent RDB1, NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00014500000QH0	1899	TQ66	Cobham
<i>Cerastium brachypetalum</i>	Grey Mouse-ear	Kent RDBK	SR00014500003SZE	2000	TQ66	Longfield, NR
<i>Dianthus deltoides</i>	Maiden Pink	NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-NT	SR00014500000QH1	1899	TQ66	Cobham
<i>Knautia arvensis</i>	Field Scabious	RedList_ENG_post2001-NT	SR0001450002HNNH0	24/07/2016	TQ6265	Meopham Elbows Wood
<i>Knautia arvensis</i>	Field Scabious	"	SR00026500006GTI	04/10/2016	TQ628653	Elbows Wood,etc, Meopham
<i>Knautia arvensis</i>	Field Scabious	"	SR00026500006Y20	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Knautia arvensis</i>	Field Scabious	"	SR00026500006W09	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Knautia arvensis</i>	Field Scabious	"	SR0001450002HNNH1	24/07/2016	TQ6364	Meopham Green south - West Lodge
<i>Knautia arvensis</i>	Field Scabious	"	SR00026500003NZQ	22/05/2006	TQ643647	Chalk meadows,Happy Valley,Meopham
<i>Knautia arvensis</i>	Field Scabious	"	SR00026500006LOR	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Knautia arvensis</i>	Field Scabious	"	SR0001450003DBYL	22/08/2017	TQ6463	Culverstone Green north east
<i>Knautia arvensis</i>	Field Scabious	"	SR0001450003DBY6	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Knautia arvensis</i>	Field Scabious	"	SR0001450003CZ28	27/08/2017	TQ6567	Sole Street - Camer
<i>Knautia arvensis</i>	Field Scabious	"	SR0001450003C7DV	27/08/2017	TQ6667	Luddesdown north - Gold Street - Henley Street west
<i>Knautia arvensis</i>	Field Scabious	"	SR0001450003CZ3Q	27/08/2017	TQ6667	Luddesdown north - Gold Street - Henley Street west
<i>Knautia arvensis</i>	Field Scabious	"	SR00026500002WQF	13/06/2004	TQ6667	Henley St environs
<i>Knautia arvensis</i>	Field Scabious	"	SR00026600008Z18	1991 - 2000	TQ66G	Culverstone Green
<i>Knautia arvensis</i>	Field Scabious	"	SR00026600008Z5X	1991 - 2000	TQ66H	Elbows Wood
<i>Knautia arvensis</i>	Field Scabious	"	SR00026600008Z9L	1991 - 2000	TQ66I	Orange Hill
<i>Knautia arvensis</i>	Field Scabious	"	SR00026600008ZPI	1991 - 2000	TQ66L	Harvel
<i>Knautia arvensis</i>	Field Scabious	"	SR00026600008ZZS	1991 - 2000	TQ66M	Meopham Green
<i>Knautia arvensis</i>	Field Scabious	"	SR00026600009106	1991 - 2000	TQ66S	Great Buckland

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Knautia arvensis</i>	Field Scabious	"	SR0002660000917M	1991 - 2000	TQ66T	Luddesdown
<i>Valeriana officinalis</i>	Common Valerian	RedList_ENG_post2001-NT	DSS0041900000TJ6	27/06/2015	TQ66	Holly Hill
<i>Valerianella dentata</i>	Narrow-fruited Cornsalad	RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR0001450001D2SH	23/06/2012	TQ6367	Longfield Hill south east - Gorse Bottom
<i>Valerianella dentata</i>	Narrow-fruited Cornsalad	"	SR00026500002WQ8	13/06/2004	TQ6667	Henley St environs
<i>Valerianella dentata</i>	Narrow-fruited Cornsalad	"	SR000266000008ZAS	1991 - 2000	TQ66I	Orange Hill
<i>Valerianella dentata</i>	Narrow-fruited Cornsalad	"	SR00026600000912C	1991 - 2000	TQ66S	Great Buckland
<i>Genista tinctoria</i> subsp. <i>tinctoria</i>	Dyer's Greenweed	RedList_ENG_post2001-VU	SR00014500003RYH	1998	TQ66	Longfield
<i>Onobrychis viciifolia</i>	Sainfoin	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00026600000916S	1991 - 2000	TQ66T	Luddesdown
<i>Trifolium fragiferum</i>	Strawberry Clover	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00026600000901S	1991 - 2000	TQ66M	Meopham Green
<i>Vicia parviflora</i>	Slender Tare	NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00014500000QAH	1836	TQ66	Cobham nr
<i>Gentianella amarella</i>	Autumn Gentian	RedList_ENG_post2001-NT	SR00026500003K0B	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Gentianella amarella</i>	Autumn Gentian	"	SR00014500018K9R	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Gentianella amarella</i>	Autumn Gentian	"	SR00014500018KFV	01/01/1987	TQ663665	Henley Wood and pasture
<i>Gentianella amarella</i>	Autumn Gentian	"	SR000266000008Z54	1991 - 2000	TQ66H	Elbows Wood
<i>Gentianella amarella</i>	Autumn Gentian	"	SR000266000008ZU9	1991 - 2000	TQ66L	Harvel
<i>Gentianella amarella</i>	Autumn Gentian	"	SR0002660000090ZC	1991 - 2000	TQ66S	Great Buckland
<i>Gentianella anglica</i>	Early Gentian	Kent RDB3	SR00014500000RR0	1971	TQ66	Trottiscliffe
<i>Cruciata laevipes</i>	Crosswort	RedList_ENG_post2001-NT	SR0001450002HL8X	24/07/2016	TQ6264	Meopham Green south west - New Street
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450002HL9O	24/07/2016	TQ6265	Meopham Elbows Wood
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450002HL9J	12/06/2016	TQ6266	Hartley Hill east - Shipley Hills west
<i>Cruciata laevipes</i>	Crosswort	"	SR000265000006GSR	04/10/2016	TQ628653	Elbows Wood,etc, Meopham
<i>Cruciata laevipes</i>	Crosswort	"	SR000265000006VZT	03/07/2019	TQ628653	Elbows Wood,etc, Meopham

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450003YTYF	27/06/2019	TQ6363	Culverstone Green north - South Street
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450002HL9N	24/07/2016	TQ6364	Meopham Green south - West Lodge
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450002HL9I	12/06/2016	TQ6366	Meopham north west - Shipley Hills
<i>Cruciata laevipes</i>	Crosswort	"	SR00027800000IBA	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Cruciata laevipes</i>	Crosswort	"	SR00026500003NZZ	22/05/2006	TQ643647	Chalk meadows, Happy Valley, Meopham
<i>Cruciata laevipes</i>	Crosswort	"	SR00026500006LQD	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450003CYQJ	22/08/2017	TQ6463	Culverstone Green north east
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450001NIWM	08/04/2014	TQ6464	Meopham Green south east - David Street
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450001M9CI	29/11/2015	TQ6564	Priestwood
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450003CR6K	15/04/2017	TQ6565	Meopham east - Foxendown
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450001N9S3	29/11/2015	TQ6664	Great Buckland north west - Coomb Hill
<i>Cruciata laevipes</i>	Crosswort	"	SR0001450001M9CH	29/11/2015	TQ6665	Luddesdown south
<i>Cruciata laevipes</i>	Crosswort	"	SR00026600008Z4O	1991 - 2000	TQ66H	Elbows Wood
<i>Cruciata laevipes</i>	Crosswort	"	SR00026600008ZPA	1991 - 2000	TQ66L	Harvel
<i>Cruciata laevipes</i>	Crosswort	"	SR00026600008ZZ2	1991 - 2000	TQ66M	Meopham Green
<i>Cruciata laevipes</i>	Crosswort	"	SR0002660000910W	1991 - 2000	TQ66S	Great Buckland
<i>Cruciata laevipes</i>	Crosswort	"	SR0002660000918K	1991 - 2000	TQ66T	Luddesdown
<i>Galium parisiense</i>	Wall Bedstraw	Kent RDB2, NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00026500004ZJ9	06/05/1979	TQ631646	Lullingstone Castle
<i>Clinopodium acinos</i>	Basil Thyme	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR0001450003C79O	22/08/2017	TQ6463	Culverstone Green north east
<i>Clinopodium acinos</i>	Basil Thyme	"	DSS0041900000VGX	22/08/2017	TQ66	Happy Valley
<i>Clinopodium acinos</i>	Basil Thyme	"	SR00026600008ZOK	1991 - 2000	TQ66L	Harvel
<i>Clinopodium calamintha</i>	Lesser Calamint	NS-excludes	SR00014500000QGZ	1899	TQ66	Cobham
<i>Mentha arvensis</i>	Corn Mint	RedList_ENG_post2001-NT	SR0001450002H61Y	24/07/2016	TQ6364	Meopham Green south - West Lodge
<i>Mentha arvensis</i>	Corn Mint	"	SR00026600007PZU	02/07/2004	TQ66G	Culverstone Green
<i>Mentha arvensis</i>	Corn Mint	"	SR00026600008Z47	1991 - 2000	TQ66H	Elbows Wood
<i>Mentha arvensis</i>	Corn Mint	"	SR00026600008ZC5	1991 - 2000	TQ66I	Orange Hill

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<i>Mentha arvensis</i>	Corn Mint	"	SR00026600009122	1991 - 2000	TQ66S	Great Buckland
<i>Nepeta cataria</i>	Cat-mint	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR0001450003CK8C	27/08/2017	TQ6567	Sole Street - Camer
<i>Nepeta cataria</i>	Cat-mint	"	SR0001450000RX40	29/07/2011	TQ6666	Luddesdown
<i>Stachys arvensis</i>	Field Woundwort	RedList_ENG_post2001-NT, RedList_GB_post2001-NT	SR0001450002HI3J	24/07/2016	TQ6365	Meopham west
<i>Euphrasia nemorosa</i>	Eyebright	RedList_ENG_post2001-NT	SR00026500003K0C	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Euphrasia nemorosa</i>	Eyebright	"	SR00026500006LOC	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Euphrasia nemorosa</i>	Eyebright	"	SR0001450003C79K	22/08/2017	TQ6463	Culverstone Green north east
<i>Euphrasia nemorosa</i>	Eyebright	"	SR0001450003DBWS	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Euphrasia nemorosa</i>	Eyebright	"	SR00014500018KA9	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Euphrasia nemorosa</i>	Eyebright	"	SR00026600008Z2A	1991 - 2000	TQ66H	Elbows Wood
<i>Euphrasia nemorosa</i>	Eyebright	"	SR00026600008ZTF	1991 - 2000	TQ66L	Harvel
<i>Euphrasia nemorosa</i>	Eyebright	"	SR0002660000901R	1991 - 2000	TQ66M	Meopham Green
<i>Euphrasia nemorosa</i>	Eyebright	"	SR000266000091AO	1991 - 2000	TQ66T	Luddesdown
<i>Euphrasia pseudokernerii</i>	Eyebright	NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-EN	SR00026500006LOD	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Euphrasia pseudokernerii</i>	Eyebright	"	SR0001450003C796	22/08/2017	TQ6463	Culverstone Green north east
<i>Euphrasia pseudokernerii</i>	Eyebright	"	SR00014500000QLX	1930	TQ66	Cobham
<i>Euphrasia pseudokernerii</i>	Eyebright	"	DSS0041900000VGW	22/08/2017	TQ66	Happy Valley
<i>Orobanche elatior</i>	Knapweed Broomrape	Kent RDB3	SR00026500002SAH	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Plantago media</i>	Hoary Plantain	RedList_ENG_post2001-NT	SR0001450002H6OO	24/07/2016	TQ6264	Meopham Green south west - New Street
<i>Plantago media</i>	Hoary Plantain	"	SR00026500003NZY	22/05/2006	TQ643647	Chalk meadows,Happy Valley,Meopham
<i>Plantago media</i>	Hoary Plantain	"	SR00026500002SA1	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Plantago media</i>	Hoary Plantain	"	SR00026600007LIS	15/06/2001	TQ66H	Elbows Wood
<i>Veronica officinalis</i>	Heath Speedwell	RedList_ENG_post2001-NT	SR0001450002HS08	24/07/2016	TQ6264	Meopham Green south west - New Street
<i>Veronica officinalis</i>	Heath Speedwell	"	SR0001450002HIT0	06/10/2016	TQ6265	Meopham Elbows Wood
<i>Veronica officinalis</i>	Heath Speedwell	"	SR00026600008Z5G	1991 - 2000	TQ66H	Elbows Wood

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<i>Veronica officinalis</i>	Heath Speedwell	"	SR0002660000912T	1991 - 2000	TQ66S	Great Buckland
<i>Verbascum lychnitis</i>	White Mullein	NS-excludes	DSS0041900000TJD	27/06/2015	TQ66	Holly Hill
<i>Verbascum lychnitis</i>	White Mullein	"	SR00014500000QF1	1884	TQ66	Longfield
<i>Euphorbia cyparissias</i>	Cypress Spurge	Kent RDB2	SR0001450000RVAN	29/07/2011	TQ6567	Sole Street - Camer
<i>Euphorbia exigua</i>	Dwarf Spurge	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR0001450002HLVH	04/10/2016	TQ6265	Meopham Elbows Wood
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR00026500006GVA	04/10/2016	TQ628653	Elbows Wood,etc, Meopham
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0001450001CTSE	23/06/2012	TQ6367	Longfield Hill south east - Gorse Bottom
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR00026500006LQG	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0001450003C7BW	22/08/2017	TQ6463	Culverstone Green north east
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0001450003C7AO	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0001450003CZ2R	27/08/2017	TQ6567	Sole Street - Camer
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0001450000S0VA	29/07/2011	TQ6667	Luddesdown north - Gold Street - Henley Street west
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR00026600008Z5D	1991 - 2000	TQ66H	Elbows Wood
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR00026600008ZB7	1991 - 2000	TQ66I	Orange Hill
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR00026600008ZSJ	1991 - 2000	TQ66L	Harvel
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0002660000913K	1991 - 2000	TQ66S	Great Buckland
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR0002660000915Q	1991 - 2000	TQ66T	Luddesdown
<i>Hypopitys monotropa</i>	Yellow Bird's-nest	RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00026600008ZV1	1991 - 2000	TQ66L	Harvel
<i>Helianthemum nummularium</i>	Common Rock-rose	RedList_ENG_post2001-NT	SR00026500006W05	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026500006Y1X	03/07/2019	TQ628653	Elbows Wood,etc, Meopham
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026500003K0A	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026500006LOK	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026500002DW4	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026500002SAA	14/06/2003	TQ66	Trosley Country Park, Trottiscliffe
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR0001450003ZS1U	07/04/2019	TQ6666	Luddesdown
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026600008Z4P	1991 - 2000	TQ66H	Elbows Wood
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR00026600008ZSB	1991 - 2000	TQ66L	Harvel
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR000266000090XC	1991 - 2000	TQ66S	Great Buckland
<i>Helianthemum nummularium</i>	Common Rock-rose	"	SR0002660000916B	1991 - 2000	TQ66T	Luddesdown

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<i>Oxalis acetosella</i>	Wood-sorrel	RedList_ENG_post2001-NT	SR00026600008ZUH	1991 - 2000	TQ66L	Harvel
<i>Oxalis acetosella</i>	Wood-sorrel	"	SR000266000090ZW	1991 - 2000	TQ66S	Great Buckland
<i>Apera spica-venti</i>	Loose Silky-bent	RedList_GB_post2001-NT	SR0002660000916W	1991 - 2000	TQ66T	Luddesdown
<i>Briza media</i>	Quaking-grass	RedList_ENG_post2001-NT	SR0001450002HK5B	06/10/2016	TQ6265	Meopham Elbows Wood
<i>Briza media</i>	Quaking-grass	"	SR00026500003JYO	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Briza media</i>	Quaking-grass	"	SR00026500006LNO	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Briza media</i>	Quaking-grass	"	SR00026600008ZPH	1991 - 2000	TQ66L	Harvel
<i>Briza media</i>	Quaking-grass	"	SR00026600009015	1991 - 2000	TQ66M	Meopham Green
<i>Briza media</i>	Quaking-grass	"	SR00026600007LI0	01/06/2001	TQ66S	Great Buckland
<i>Briza media</i>	Quaking-grass	"	SR0002660000919K	1991 - 2000	TQ66T	Luddesdown
<i>Cynodon dactylon</i>	Bermuda-grass	NR-excludes	SR00014500003LZO	1956	TQ66	Longfield, Southwark refuse tip
<i>Vulpia unilateralis</i>	Mat-grass Fescue	Kent RDB3, NS-excludes	SR00014500000S3M	1988	TQ656643	Lenniker Wood
<i>Vulpia unilateralis</i>	Mat-grass Fescue	"	SR00014500000R5O	1959	TQ66	Halling Warren
<i>Vulpia unilateralis</i>	Mat-grass Fescue	"	SR00014500000R5V	1959	TQ66	Trottiscliffe
<i>Vulpia unilateralis</i>	Mat-grass Fescue	"	SR00014500000R5W	1959	TQ66	Trottiscliffe foot of downs
<i>Vulpia unilateralis</i>	Mat-grass Fescue	"	SR00014500000R7N	1960	TQ66	Wrotham Water nr
<i>Fumaria parviflora</i>	Fine-leaved Fumitory	NS-excludes, RedList_ENG_post2001-NT, RedList_GB_post2001-VU	SR00014500000QIG	1899	TQ66	Luddesdown
<i>Fumaria vaillantii</i>	Few-flowered Fumitory	Kent RDB1, NS-excludes, RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00014500000QJV	1900	TQ66	Longfield
<i>Meconopsis cambrica</i>	Welsh Poppy	NS-excludes	SR0001450003DBXE	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Helleborus foetidus</i>	Stinking Hellebore	NS-excludes	SR0001450002H4LQ	21/02/2016	TQ6267	Longfield Hill south
<i>Helleborus foetidus</i>	Stinking Hellebore	"	SR00026500002HGD	22/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Helleborus foetidus</i>	Stinking Hellebore	"	SR00014500000R0M	1950	TQ66	Wrotham Holly Hill nr
<i>Helleborus foetidus</i>	Stinking Hellebore	"	SR00014500000R0U	1951	TQ66	Luddesdown
<i>Helleborus foetidus</i>	Stinking Hellebore	"	SR0001450001NACR	29/11/2015	TQ6664	Great Buckland north west - Coomb Hill
<i>Helleborus foetidus</i>	Stinking Hellebore	"	SR000266000090XW	1991 - 2000	TQ66S	Great Buckland

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<i>Fragaria vesca</i>	Wild Strawberry	RedList_ENG_post2001-NT	SR0001450002H3YX	24/07/2016	TQ6265	Meopham Elbows Wood
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00026500003JY4	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00027800000IB7	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0001450003C7A7	22/08/2017	TQ6463	Culverstone Green north east
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0001450001NKZA	08/04/2014	TQ6464	Meopham Green south east - David Street
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0001450001MVO4	29/11/2015	TQ6565	Meopham east - Foxendown
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0001450001MVO3	29/11/2015	TQ6665	Luddesdown south
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0001450001MVMW	27/01/2015	TQ6666	Luddesdown
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0001450001MVMU	19/01/2015	TQ6667	Luddesdown north - Gold Street - Henley Street west
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00026600008YVZ	1991 - 2000	TQ66G	Culverstone Green
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00026600008Z58	1991 - 2000	TQ66H	Elbows Wood
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00026600008ZB3	1991 - 2000	TQ66I	Orange Hill
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00026600008ZSO	1991 - 2000	TQ66L	Harvel
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0002660000901B	1991 - 2000	TQ66M	Meopham Green
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00026600009126	1991 - 2000	TQ66S	Great Buckland
<i>Fragaria vesca</i>	Wild Strawberry	"	SR0002660000914A	1991 - 2000	TQ66T	Luddesdown
<i>Hyoscyamus niger</i>	Henbane	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00026500002SJ1	03/07/2003	TQ660655	edge of arable field atTQ612648
<i>Cynoglossum officinale</i>	Hound's-tongue	RedList_ENG_post2001-NT, RedList_GB_post2001-NT	SR00014500018KAB	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Cynoglossum officinale</i>	Hound's-tongue	"	SR0001450000RUS7	29/07/2011	TQ6666	Luddesdown
<i>Helicigona lapicida</i>	Lapidary Snail	Kent RDB2	SR00026600003SRW	17/09/1983	TQ66S	Great Buckland
<i>Helicella itala</i>	Heath Snail	Kent RDB2	SR00026600003SWN	20/03/1984	TQ66S	Great Buckland
<i>Backeljaia gigaxii</i>	Backeljaia gigaxii	NS-includes	SR00026600003SO7	23/07/1983	TQ66S	Great Buckland
<i>Kalcapion semivittatum</i>	Kalcapion semivittatum	Notable-A	SR0002660000A1OP	11/08/2000	TQ66H	Elbows Wood
<i>Diplocoelus fagi</i>	Diplocoelus fagi	Notable-B	SR00026600003LM9	08/04/1974	TQ66S	Great Buckland
<i>Demetrias monostigma</i>	Demetrias monostigma	Notable-B, NS-includes	SR00056500003LA2	January 1959	TQ66M	Meopham
<i>Lebia chlorocephala</i>	Lebia chlorocephala	Notable-B, NS-includes	SR00056500003LPG	1960	TQ66T	Luddesdowne
<i>Prionus coriarius</i>	Tanner Beetle	Notable-A	SR0001450003YFYM	02/08/2019	TQ66	Rochester ME2 3UL, UK

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<i>Altica brevicollis</i>	Altica brevicollis	Notable-A, NS- includes	SR00056500003LP1	1960	TQ66T	Luddesdowne
<i>Chrysolina sturmi</i>	Chrysolina sturmi	Notable-B, NS- includes	SR00026600003SRA	17/09/1983	TQ66S	Great Buckland
<i>Cryptocephalus hypochaeridis</i>	Cryptocephalus hypochaeridis	NS- includes	SR00026600003D63	15/06/2001	TQ66H	Elbows Wood
<i>Mantura rustica</i>	Mantura rustica	Notable-B, NS- includes	SR00026600003O5P	26/01/1977	TQ66M	Meopham Green
<i>Gymnetron melanarium</i>	Gymnetron melanarium	Notable-B	SR00014500045THK	15/05/1963	TQ66	Trotisscliffe
<i>Rhinusa linariae</i>	Rhinusa linariae	Notable-A	SR00026600002VO6	20/07/1996	TQ66L	Harvel
<i>Taphrorychus bicolor</i>	Taphrorychus bicolor	Notable-A	SR00026600003LM6	08/04/1974	TQ66S	Great Buckland
<i>Mordellistena brevicauda</i>	Mordellistena brevicauda	NR- includes, RedList_GB_post2001- DD	SR00056500003OV1	1958	TQ66T	Luddesdowne
<i>Variimorda villosa</i>	Variimorda villosa	Notable-B, NS- includes	SR00026600003PQ0	17/08/1978	TQ66S	Great Buckland
<i>Meligethes solidus</i>	Meligethes solidus	Notable	SR00056500003OXV	1958	TQ66T	Luddesdowne
<i>Erynnis tages</i>	Dingy Skipper	RedList_GB_post2001- VU	SR00014500018J0J	13/05/1992	TQ6464	Meopham Green Happy Valley
<i>Erynnis tages</i>	Dingy Skipper	"	SR00014500018J2V	27/05/1992	TQ6464	Meopham Green
<i>Erynnis tages</i>	Dingy Skipper	"	SR000266000035X8	14/05/1999	TQ66H	Elbows Wood
<i>Pyrgus malvae</i>	Grizzled Skipper	RedList_GB_post2001- VU	SR00014500018J2W	27/05/1992	TQ6464	Meopham Green
<i>Pyrgus malvae</i>	Grizzled Skipper	"	SR00014500018J0I	13/05/1992	TQ6464	Meopham Green Happy Valley
<i>Pyrgus malvae</i>	Grizzled Skipper	"	SR000266000035X7	14/05/1999	TQ66H	Elbows Wood
<i>Pyrgus malvae</i>	Grizzled Skipper	"	SR00026600002YBP	12/05/1997	TQ66S	Great Buckland
<i>Satyrrium w-album</i>	White-letter Hairstreak	RedList_GB_post2001- EN	SR00026600009981	11/05/2002	TQ66H	
<i>Argynnis paphia</i>	Silver-washed Fritillary	Kent RDB1	SR000266000030C1	29/07/1997	TQ66S	Great Buckland
<i>Limenitis camilla</i>	White Admiral	RedList_GB_post2001- VU	SR0001450001CID2	10/08/2012	TQ644655	Meopham
<i>Limenitis camilla</i>	White Admiral	"	SR0002660000A8HG	05/08/2012	TQ6664	
<i>Coenonympha pamphilus</i>	Small Heath	RedList_GB_post2001- NT	SR0001450000OSVT	14/07/2009	TQ6265	Meopham, alongside Elbows Wood
<i>Coenonympha pamphilus</i>	Small Heath	"	DSS0041900000TIK	27/06/2015	TQ66	Holly Hill
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026500002WQT	13/06/2004	TQ6667	Henley St environs
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000043GY	13/06/1992	TQ66L	Harvel
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000042GB	29/08/1991	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600003I6O	25/06/2003	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600002Z14	09/06/1997	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600002Z1V	09/06/1997	TQ66T	Luddesdown

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000036UC	26/06/1999	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000036YK	02/07/1999	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600002UV4	12/06/1996	TQ66T	Luddesdown
<i>Coenonympha pamphilus pamphilus</i>	Small Heath	RedList_GB_post2001-NT	SR00014500018J2X	27/05/1992	TQ6464	Meopham Green
<i>Coenonympha pamphilus pamphilus</i>	Small Heath	"	SR00014500018J0K	13/05/1992	TQ6464	Meopham Green Happy Valley
<i>Coenonympha pamphilus pamphilus</i>	Small Heath	"	SR0001450003AMJC	21/06/2013	TQ661666	Sole Street near Gravesend
<i>Lasiommata megera</i>	Wall	RedList_GB_post2001-NT	SR0002660000429A	11/08/1991	TQ66T	Luddesdown
<i>Stigmella aceris</i>	Scarce Maple Pigmy	Kent RDB3	SR0001450000TRNH	23/09/2009	TQ6502366986	Gravesend, Sole Street (Camer Park Country Park)
<i>Acompsia schmidtellus</i>	Marjoram Crest	Notable-B	SR00014500002PN0	09/06/1996	TQ628650	Meopham
<i>Calamotropha paludella</i>	Bulrush Veneer	Notable-B	SR0001450001KON7	20/06/2011	TQ640678	Meopham, Gravesend
<i>Moitrelia obductella</i>	Kent Knot-horn	RedList_GB_Pre94-VU	SR00014500002PN2	09/06/1996	TQ628650	Meopham
<i>Oncocera semirubella</i>	Rosy-striped Knot-horn	Notable-B	SR0001450004DMN2	23/07/2019	TQ64496551	Lomer Fm
<i>Yponomeuta irrorella</i>	Scarce Ermine	Kent RDB2	SR00014500002PMO	09/06/1996	TQ628650	Meopham
<i>Dicranomyia chorea</i>	Dicranomyia chorea	RedList_GB_Pre94-R	SR00014500006SDH	01/06/1979	TQ6666	Luddesdowne
<i>Limonia nigropunctata</i>	Limonia nigropunctata	RedList_GB_Pre94-R	SR000145000070NS	31/05/1973	TQ6464	David Street
<i>Cheilosia carbonaria</i>	Cheilosia carbonaria	Notable, NS-excludes	SR00014500006Y56	21/08/1968	TQ66	Cuxton
<i>Omalus puncticollis</i>	Omalus puncticollis	Notable-A	SR00026600003SQ2	08/08/1983	TQ66T	Luddesdown
<i>Ponera coarctata</i>	Indolent Ant	Notable-B	SR00026600003SR3	16/09/1983	TQ66S	Great Buckland
<i>Sphecodes crassus</i>	Swollen-thighed Blood Bee	Notable-B	SR00026600003LVA	30/06/1974	TQ66N	Sole Street
<i>Osmia pilicornis</i>	Fringe-horned Mason Bee	Notable-A	SR0002830000215B	16/05/1921	TQ6465	Meopham
<i>Triturus cristatus</i>	Great Crested Newt	Kent RDB	SR00026600003R8H	1981 - 1990	TQ66T	Luddesdown
<i>Plecotus auritus</i>	Brown Long-eared Bat[#]	Kent RDB2	SR000266000044I5	27/03/1993	TQ66G	Culverstone Green
<i>Plecotus auritus</i>	Brown Long-eared Bat	"	SR000266000041AT	19/05/1991	TQ66M	Meopham Green
<i>Plecotus auritus</i>	Brown Long-eared Bat	"	SR000266000042KD	14/09/1991	TQ66N	Sole Street
<i>Erinaceus europaeus</i>	West European Hedgehog	RedList_GB_post2001-VU	SR000405000015B1	30/05/2013	TQ633675	
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00014500005VWH	24/12/2000	TQ638671	Hook Green, Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00014500005UZ5	11/10/2002	TQ641678	A227 Meopham Station
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0001450000P06V	26/05/2010	TQ642658	Meopham School
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000011FK	26/05/2010	TQ642658	Meopham School
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFG	12/11/2018	TQ64386766	Meopham DA13 0NF

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFI	11/11/2018	TQ64386766	Meopham DA13 0NF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFE	30/10/2018	TQ644676	Meopham DA13 0NF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000012K4	06/07/2013	TQ64596744	
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000FG	26/08/1974	TQ6465	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00027800000C4V	2005	TQ646658	Arnold Avenue, Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500000035	19/05/1964	TQ6467	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000BZ	23/05/1971	TQ6664	Great Buckland
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003D6H	16/06/2001	TQ66G	Culverstone Green
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000331Q	July 1998	TQ66G	Culverstone Green
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000034XP	December 1998	TQ66H	Elbows Wood
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003CIW	24/12/2000	TQ66I	Orange Hill
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003EEF	30/12/2001	TQ66L	Harvel
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000H1	29/05/1978	TQ66N	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000JC	06/09/1980	TQ66T	Sole Street
Lepus europaeus	Brown Hare	Kent RDB2	SR000405000002AT	13/04/1962	TQ6465	Meopham
<i>Lepus europaeus</i>	Brown Hare	"	SR00026600002VNP	20/07/1996	TQ66T	Luddesdown
Oryctolagus cuniculus	European Rabbit	RedList_Global_post2001_NT	SR00026500006GS4	04/10/2016	TQ628653	Elbows Wood,etc, Meopham
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026500003K0I	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000002WK	26/06/1969	TQ6363	Vigo
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003C0	06/05/1983	TQ6367	Orange Hill
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026500002H7Z	11/02/2001	TQ640645	Steeles Wood, Happy Valley, Meopham
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00014500005V11	13/06/2000	TQ641644	Meopham
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000002WU	20/05/1969	TQ6467	Meopham
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00014500005VN7	21/06/2000	TQ655657	Brimstone Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000002ZI	16/01/1972	TQ6564	Priestwood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0004050000030T	23/05/1971	TQ6567	Sole Street
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003PY	22/02/1991	TQ6666	Busley Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0001450000TAW1	03/09/2002	TQ6666	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003AHC	18/06/2000	TQ66G	Culverstone Green
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003D60	15/06/2001	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000034XO	December 1998	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000035X2	14/05/1999	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002Z97	19/06/1997	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0002660000383K	17/09/1999	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000044D1	31/01/1993	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003RH	31/01/1993	TQ66H	Elbows Wood
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0004050000038I	28/03/1973	TQ66I	Orange Hill

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003C0E	01/09/2000	TQ66I	Orange Hill
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003K3C	23/01/2004	TQ66I	Orange Hill
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003AHD	18/06/2000	TQ66L	Harvel
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000035E6	April 1999	TQ66L	Harvel
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002TRP	29/02/1996	TQ66M	Meopham Green
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003AD4	13/06/2000	TQ66M	Meopham Green
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003FS	22/07/1984	TQ66N	Paddlesworth
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003DL	17/09/1983	TQ66S	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0004050000034O	05/06/1975	TQ66S	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003AK0	21/06/2000	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003CZ3	20/05/2001	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002U7T	05/05/1996	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002RRO	20/05/1995	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002YBS	12/05/1997	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0002660000331D	01/07/1998	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000044EZ	10/03/1993	TQ66S	Great Buckland
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000046DL	31/08/1993	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002Z1W	09/06/1997	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000038IV	27/12/1999	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000039LO	22/05/2000	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002RRX	20/05/1995	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002U7V	05/05/1996	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000040WF	22/02/1991	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003ES	24/03/1984	TQ66T	Luddesdown
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR0004050000038J	28/03/1973	TQ66T	Cobham
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600009B9D	09/03/2005	TQ66T	
<i>Muscardinus avellanarius</i>	Hazel Dormouse	Kent RDB, RedList_GB_post2001- VU	SR00040500001520	30/10/2013	TQ660666	henley wood, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EU	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EV	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EW	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EX	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L1	20/04/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L2	18/07/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L3	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L4	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L5	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L6	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000004BF	17/05/1965	TQ6664	Great Buckland
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR00026600003BW0	23/08/2000	TQ66T	Luddesdown

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
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[#] The prominent bat dataset is displayed in the enclosed Kent Bat Group Bat Report.

Gravesham Borough Council

Conservation Concern Species Inventory

Brogdale Farm Office, Brogdale Road, Faversham ME13 8XZ
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**Biological
Records Centre**

Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/21/301

2km radius search surrounding - TQ6436165935

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Entoloma bloxamii</i>	Big Blue Pinkgill	UKBAP_P, NERC_S.41	SR000265000033YU	1984 - 1995	TQ66	Trosley Country Park, Trottiscliffe
<i>Piptoporus quercinus</i>	Oak polypore	UKBAP_P, NERC_S.41	SR00026500005SA9	28/07/2013	TQ631646	Lullingstone Castle
<i>Juniperus communis</i>	Juniper	UKBAP_P, NERC_S.41	DSS0041900000TJ9	27/06/2015	TQ66	Holly Hill
<i>Juniperus communis</i>	Juniper	"	SR00026600008ZX2	1991 - 2000	TQ66M	Meopham Green
<i>Scandix pecten-veneris</i>	Shepherd's-needle	UKBAP_P, NERC_S.41	SR00014500000QK4	1902	TQ66	Cobham
<i>Torilis arvensis</i>	Spreading Hedge-parsley	Status-NS, UKBAP_P, NERC_S.41	SR00014500000QE2	1875	TQ66	Snodland roadside nr
<i>Cephalanthera damasonium</i>	White Helleborine	UKBAP_P, NERC_S.41	SR00027800000IAW	12/05/1956	TQ643641	Steels Wood, S. of Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026500002DWK	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00014500000RNB	13/06/2010	TQ6463	Culverstone Green north east
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00014500000RNB	13/06/2010	TQ6463	Culverstone Green north east
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00014500018KAV	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600008Z3P	1991 - 2000	TQ66H	Elbows Wood
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600008ZS4	1991 - 2000	TQ66L	Harvel
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR00026600007LHX	01/06/2001	TQ66S	Great Buckland
<i>Cephalanthera damasonium</i>	White Helleborine	"	SR0002660000914I	1991 - 2000	TQ66T	Luddesdown
<i>Herminium monorchis</i>	Musk Orchid	Status-NS, UKBAP_P, NERC_S.41	DSS0041900000TIP	27/06/2015	TQ66	Holly Hill
<i>Herminium monorchis</i>	Musk Orchid	"	SR00014500000R26	1954	TQ66	Trottiscliffe
<i>Herminium monorchis</i>	Musk Orchid	"	SR00014500018KFM	01/01/1987	TQ663665	Henley Wood and pasture
<i>Ophrys insectifera</i>	Fly Orchid	UKBAP_P, NERC_S.41	SR00027800000IC8	12/05/1956	TQ643641	Steels Wood, S. of Meopham

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026500002DW1	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR0001450000RX8L	13/06/2010	TQ6463	Culverstone Green north east
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00014500018KAX	01/01/1987	TQ655651	Strawberry Hill, Meopham
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026600008ZOY	1991 - 2000	TQ66L	Harvel
<i>Ophrys insectifera</i>	Fly Orchid	"	SR00026600008ZYC	1991 - 2000	TQ66M	Meopham Green
<i>Ophrys insectifera</i>	Fly Orchid	"	SR000266000090ZT	1991 - 2000	TQ66S	Great Buckland
<i>Orchis anthropophora</i>	Man Orchid	Status-NS, UKBAP_P, NERC_S.41	SR00026500002DWH	24/05/2000	TQ643648	Happy Valley, Meopham
<i>Orchis anthropophora</i>	Man Orchid	"	SR0001450000RSYE	13/06/2010	TQ6463	Culverstone Green north east
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000QAN	1837	TQ66	
<i>Orchis anthropophora</i>	Man Orchid	"	SR00014500000R14	1951	TQ66	Wrotham nr
<i>Orchis anthropophora</i>	Man Orchid	"	DSS0041900000TJ1	27/06/2015	TQ66	Holly Hill
<i>Orchis anthropophora</i>	Man Orchid	"	SR00026600008ZUC	1991 - 2000	TQ66L	Harvel
<i>Orchis anthropophora</i>	Man Orchid	"	SR000266000090ZU	1991 - 2000	TQ66S	Great Buckland
<i>Campanula patula</i>	Spreading Bellflower	Status-NS, UKBAP_P, NERC_S.41	SR00014500000QGY	1899	TQ66	Cobham
<i>Iberis amara</i>	Wild Candytuft	Status-NS, UKBAP_P, NERC_S.41	SR00014500000QH0	1899	TQ66	Cobham
<i>Gentianella anglica</i>	Early Gentian	UKBAP_P, NERC_S.41	SR00014500000RR0	1971	TQ66	Trottiscliffe
<i>Clinopodium acinos</i>	Basil Thyme	UKBAP_P, NERC_S.41	SR0001450003C79O	22/08/2017	TQ6463	Culverstone Green north east
<i>Clinopodium acinos</i>	Basil Thyme	"	DSS0041900000VGX	22/08/2017	TQ66	Happy Valley
<i>Clinopodium acinos</i>	Basil Thyme	"	SR00026600008ZOK	1991 - 2000	TQ66L	Harvel
<i>Euphrasia pseudokernerii</i>	Eyebright	Status-NS, UKBAP_P, NERC_S.41	SR00026500006LOD	22/08/2017	TQ643648	Happy Valley, Meopham
<i>Euphrasia pseudokernerii</i>	Eyebright	"	SR0001450003C796	22/08/2017	TQ6463	Culverstone Green north east
<i>Euphrasia pseudokernerii</i>	Eyebright	"	DSS0041900000VGW	22/08/2017	TQ66	Happy Valley
<i>Euphrasia pseudokernerii</i>	Eyebright	"	SR00014500000QLX	1930	TQ66	Cobham
<i>Erynnis tages</i>	Dingy Skipper	UKBAP_P, NERC_S.41	SR00014500018J0J	13/05/1992	TQ6464	Meopham Green Happy Valley
<i>Erynnis tages</i>	Dingy Skipper	"	SR00014500018J2V	27/05/1992	TQ6464	Meopham Green
<i>Erynnis tages</i>	Dingy Skipper	"	SR000266000035X8	14/05/1999	TQ66H	Elbows Wood
<i>Pyrgus malvae</i>	Grizzled Skipper	UKBAP_P, NERC_S.41	SR00014500018J2W	27/05/1992	TQ6464	Meopham Green
<i>Pyrgus malvae</i>	Grizzled Skipper	"	SR00014500018J0I	13/05/1992	TQ6464	Meopham Green Happy Valley

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Pyrgus malvae</i>	Grizzled Skipper	"	SR000266000035X7	14/05/1999	TQ66H	Elbows Wood
<i>Pyrgus malvae</i>	Grizzled Skipper	"	SR00026600002YBP	12/05/1997	TQ66S	Great Buckland
<i>Satyrion w-album</i>	White-letter Hairstreak	UKBAP_P, NERC_S.41	SR00026600009981	11/05/2002	TQ66H	
<i>Limenitis camilla</i>	White Admiral	UKBAP_P, NERC_S.41	SR0001450001CID2	10/08/2012	TQ644655	Meopham
<i>Limenitis camilla</i>	White Admiral	"	SR0002660000A8HG	05/08/2012	TQ6664	
<i>Coenonympha pamphilus</i>	Small Heath	UKBAP_P, NERC_S.41	SR0001450000OSVT	14/07/2009	TQ6265	Meopham, alongside Elbows Wood
<i>Coenonympha pamphilus</i>	Small Heath	"	DSS0041900000TIK	27/06/2015	TQ66	Holly Hill
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026500002WQT	13/06/2004	TQ6667	Henley St environs
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000043GY	13/06/1992	TQ66L	Harvel
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000042GB	29/08/1991	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600002Z14	09/06/1997	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600002Z1V	09/06/1997	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000036UC	26/06/1999	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR000266000036YK	02/07/1999	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600003I6O	25/06/2003	TQ66T	Luddesdown
<i>Coenonympha pamphilus</i>	Small Heath	"	SR00026600002UV4	12/06/1996	TQ66T	Luddesdown
<i>Coenonympha pamphilus pamphilus</i>	Small Heath	"	SR00014500018J2X	27/05/1992	TQ6464	Meopham Green
<i>Coenonympha pamphilus pamphilus</i>	Small Heath	"	SR00014500018J0K	13/05/1992	TQ6464	Meopham Green Happy Valley
<i>Coenonympha pamphilus pamphilus</i>	Small Heath	"	SR0001450003AMJC	21/06/2013	TQ661666	Sole Street near Gravesend
<i>Lasiommata megera</i>	Wall	UKBAP_P, NERC_S.41	SR0002660000429A	11/08/1991	TQ66T	Luddesdown
<i>Hepialus humuli</i>	Ghost Moth	UKBAP_P, NERC_S.41	SR00026600003MD8	09/06/1975	TQ66N	Sole Street
<i>Hepialus humuli humuli</i>	Ghost Moth	"	SR00026600003MD7	09/06/1975	TQ66N	Sole Street
<i>Watsonalla binaria</i>	Oak Hook-tip	UKBAP_P, NERC_S.41	SR0001450004CDOR	27/08/2019	TQ64496551	Lomer Fm
<i>Ennomos fuscantaria</i>	Dusky Thorn	UKBAP_P, NERC_S.41	SR0001450000H54S	30/08/2005	TQ641678	Gravesend, Meopham (John's Road)
<i>Ennomos fuscantaria</i>	Dusky Thorn	"	SR0001450004CTWF	26/08/2019	TQ64496551	Lomer Fm
<i>Ennomos fuscantaria</i>	Dusky Thorn	"	SR0001450004CTWM	27/08/2019	TQ64496551	Lomer Fm
<i>Ennomos fuscantaria</i>	Dusky Thorn	"	SR0001450004CTYG	22/09/2019	TQ64496551	Lomer Fm
<i>Ennomos fuscantaria</i>	Dusky Thorn	"	SR0001450004CTWX	31/08/2019	TQ64506552	Lomer Fm
<i>Ennomos fuscantaria</i>	Dusky Thorn	"	SR00026600003IV3	01/08/2003	TQ66I	Orange Hill

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Hemistola chrysoprasaria</i>	Small Emerald	UKBAP_P, NERC_S.41	SR00026600003MFG	20/06/1975	TQ66N	Sole Street
<i>Melanthia procellata</i>	Pretty Chalk Carpet	UKBAP_P, NERC_S.41	SR0001450004CGBM	17/07/2019	TQ64496551	Lomer Fm
<i>Melanthia procellata</i>	Pretty Chalk Carpet	"	SR0001450000PVFW	10/06/2008	TQ6575065627	Strood, Brimstone Wood
<i>Timandra comae</i>	Blood-vein	UKBAP_P, NERC_S.41	SR0001450000FTZF	25/07/2006	TQ641678	Gravesend, Meopham (John's Road)
<i>Timandra comae</i>	Blood-vein	"	SR0001450004C6JX	30/08/2019	TQ64496552	Lomer Fm
<i>Timandra comae</i>	Blood-vein	"	SR00026600003MGD	27/06/1975	TQ66N	Sole Street
<i>Spilosoma lubricipeda</i>	White Ermine	UKBAP_P, NERC_S.41	SR0001450001LDLC	20/06/2011	TQ640678	Meopham, Gravesend
<i>Spilosoma lutea</i>	Buff Ermine	UKBAP_P, NERC_S.41	SR0001450000FW2Y	25/07/2006	TQ641678	Gravesend, Meopham (John's Road)
<i>Spilosoma lutea</i>	Buff Ermine	"	SR0001450000QFKQ	10/06/2008	TQ6575065627	Strood, Brimstone Wood
<i>Spilosoma lutea</i>	Buff Ermine	"	SR00026600009I00	23/07/2004	TQ66G	
<i>Tyria jacobaeae</i>	Cinnabar	UKBAP_P, NERC_S.41	SR000266000030C3	29/07/1997	TQ66T	Luddesdown
<i>Pechipogo strigilata</i>	Common Fan-foot	UKBAP_P, NERC_S.41	SR00026600009I1C	23/07/2004	TQ66G	
<i>Acronicta rumicis</i>	Knot Grass	UKBAP_P, NERC_S.41	SR0001450000W1EG	01/01/2010	TQ639678	Gravesend, Meopham
<i>Acronicta rumicis</i>	Knot Grass	"	SR00026600009I15	23/07/2004	TQ66G	
<i>Acronicta rumicis</i>	Knot Grass	"	SR00026600003IUJY	01/08/2003	TQ66I	Orange Hill
<i>Amphipyra tragopoginis</i>	Mouse Moth	UKBAP_P, NERC_S.41	SR0001450000H5KK	30/08/2005	TQ641678	Gravesend, Meopham (John's Road)
<i>Amphipyra tragopoginis</i>	Mouse Moth	"	SR0001450004DALN	26/08/2019	TQ64496551	Lomer Fm
<i>Amphipyra tragopoginis</i>	Mouse Moth	"	SR0001450004DALV	28/08/2019	TQ64496551	Lomer Fm
<i>Amphipyra tragopoginis</i>	Mouse Moth	"	SR0001450004D58K	01/08/2019	TQ64496552	Lomer Fm
<i>Melanchra persicariae</i>	Dot Moth	UKBAP_P, NERC_S.41	SR0001450000FSWR	25/07/2006	TQ641678	Gravesend, Meopham (John's Road)
<i>Melanchra persicariae</i>	Dot Moth	"	SR00026600009I13	23/07/2004	TQ66G	
<i>Melanchra persicariae</i>	Dot Moth	"	SR00026600003IVS	01/08/2003	TQ66I	Orange Hill
<i>Tholera decimalis</i>	Feathered Gothic	UKBAP_P, NERC_S.41	SR0001450004D91C	05/09/2019	TQ64506551	Lomer Fm
<i>Tholera decimalis</i>	Feathered Gothic	"	SR0001450004D91I	08/09/2019	TQ64506551	Lomer Fm
<i>Eugnorisma glareosa</i>	Autumnal Rustic	UKBAP_P, NERC_S.41	SR0001450004F4NZ	22/09/2019	TQ64496551	Lomer Fm
<i>Eugnorisma glareosa</i>	Autumnal Rustic	"	SR0001450004FCV8	04/10/2019	TQ64496551	Lomer Fm
<i>Eugnorisma glareosa</i>	Autumnal Rustic	"	SR0001450004FJE0	17/09/2019	TQ64496551	Lomer Fm

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Eugnorisma glareosa</i>	Autumnal Rustic	"	SR0001450004FJE7	21/09/2019	TQ64496551	Lomer Fm
<i>Eugnorisma glareosa</i>	Autumnal Rustic	"	SR0001450004FJDY	08/09/2019	TQ64506551	Lomer Fm
<i>Eugnorisma glareosa</i>	Autumnal Rustic	"	SR0001450004FCVD	05/10/2019	TQ64506552	Lomer Fm
<i>Allophyes oxyacanthae</i>	Green-brindled Crescent	UKBAP_P, NERC_S.41	SR0001450004D59F	07/10/2019	TQ64506552	Lomer Fm
<i>Allophyes oxyacanthae</i>	Green-brindled Crescent	"	SR0001450004D0KA	23/10/2019	TQ64506552	Lomer Fm
<i>Hydraecia micacea</i>	Rosy Rustic	UKBAP_P, NERC_S.41	SR0001450000FY1C	25/07/2006	TQ641678	Gravesend, Meopham (John's Road)
<i>Caradrina morpheus</i>	Mottled Rustic	UKBAP_P, NERC_S.41	SR0001450004D0OH	19/06/2019	TQ64496551	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR0001450004D5L2	10/07/2019	TQ64496551	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR0001450004D2T9	06/06/2019	TQ64496551	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR0001450004D2TD	07/06/2019	TQ64496551	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR0001450004DB3Q	03/06/2019	TQ64496551	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR0001450004DB3Y	04/06/2019	TQ64496551	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR0001450004D2UD	26/06/2019	TQ64506552	Lomer Fm
<i>Caradrina morpheus</i>	Mottled Rustic	"	SR00026600009I09	23/07/2004	TQ66G	
<i>Hoplodrina blanda</i>	Rustic	UKBAP_P, NERC_S.41	SR00026600009I08	23/07/2004	TQ66G	
<i>Agrochola lychnidis</i>	Beaded Chestnut	UKBAP_P, NERC_S.41	SR0001450004D3YH	20/09/2019	TQ64496551	Lomer Fm
<i>Agrochola lychnidis</i>	Beaded Chestnut	"	SR0001450004D3YQ	23/09/2019	TQ64496551	Lomer Fm
<i>Agrochola lychnidis</i>	Beaded Chestnut	"	SR0001450004D811	03/10/2019	TQ64496551	Lomer Fm
<i>Agrochola lychnidis</i>	Beaded Chestnut	"	SR0001450004DFVS	27/09/2019	TQ64496551	Lomer Fm
<i>Agrochola lychnidis</i>	Beaded Chestnut	"	SR0001450004DFWJ	05/10/2019	TQ64506552	Lomer Fm
<i>Agrochola lychnidis</i>	Beaded Chestnut	"	SR0001450004DFWT	06/10/2019	TQ64506552	Lomer Fm
<i>Agrochola lychnidis</i>	Beaded Chestnut	"	SR0001450004D1SU	07/10/2019	TQ64506552	Lomer Fm
<i>Agrochola litura</i>	Brown-spot Pinion	UKBAP_P, NERC_S.41	SR0001450004DFYH	14/09/2019	TQ64506551	Lomer Fm
<i>Aporophyla lutulenta</i>	Deep-brown Dart	UKBAP_P, NERC_S.41	SR0001450004DGTJ	03/10/2019	TQ64496551	Lomer Fm
<i>Aporophyla lutulenta</i>	Deep-brown Dart	"	SR0001450004D47A	05/10/2019	TQ64506552	Lomer Fm
<i>Atethmia centrigo</i>	Centre-barred Sallow	UKBAP_P, NERC_S.41	SR0001450000H7LY	30/08/2005	TQ641678	Gravesend, Meopham (John's Road)
<i>Atethmia centrigo</i>	Centre-barred Sallow	"	SR0001450004DGOL	18/09/2019	TQ64496551	Lomer Fm
<i>Atethmia centrigo</i>	Centre-barred Sallow	"	SR0001450004DGOY	22/09/2019	TQ64496551	Lomer Fm
<i>Atethmia centrigo</i>	Centre-barred Sallow	"	SR0001450004DGNT	07/09/2019	TQ64506551	Lomer Fm
<i>Atethmia centrigo</i>	Centre-barred Sallow	"	SR0001450004D45D	02/09/2019	TQ64506552	Lomer Fm
<i>Bufo bufo</i>	Common Toad	UKBAP_P, NERC_S.41	SR0001450004AVV1	March 2009	TQ645671	[Private Residence]
<i>Bufo bufo</i>	Common Toad	"	SR0001450004AVV2	2008	TQ645671	[Private Residence]

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Bufo bufo</i>	Common Toad	"	SR000266000044CJ	31/01/1993	TQ66G	Culverstone Green
<i>Triturus cristatus</i>	Great Crested Newt	UKBAP_P, NERC_S.41	SR00026600003R8H	1981 - 1990	TQ66T	Luddesdown
<i>Anguis fragilis</i>	Slow-worm	UKBAP_P, NERC_S.41	SR00026500003K0H	07/05/1995	TQ628653	Elbows Wood,etc, Meopham
<i>Zootoca vivipara</i>	Common Lizard	UKBAP_P, NERC_S.41	SR0001450004ARFS	01/10/2010	TQ652662	Camer Country Park
<i>Natrix helvetica</i>	Grass Snake	UKBAP_P, NERC_S.41	SR0001450004B8E5	12/07/2006	TQ645656	[Private Residence]
<i>Natrix helvetica</i>	Grass Snake	"	SR0001450004AVSS	13/06/2007	TQ648660	[Private Residence]
<i>Plecotus auritus</i>	Brown Long-eared Bat [#]	UKBAP_P, NERC_S.41	SR000266000044I5	27/03/1993	TQ66G	Culverstone Green
<i>Plecotus auritus</i>	Brown Long-eared Bat	"	SR000266000041AT	19/05/1991	TQ66M	Meopham Green
<i>Plecotus auritus</i>	Brown Long-eared Bat	"	SR000266000042KD	14/09/1991	TQ66N	Sole Street
<i>Erinaceus europaeus</i>	West European Hedgehog	UKBAP_P, NERC_S.41	SR000405000015B1	30/05/2013	TQ633675	
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00014500005VWH	24/12/2000	TQ638671	Hook Green, Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00014500005UZ5	11/10/2002	TQ641678	A227 Meopham Station
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0001450000P06V	26/05/2010	TQ642658	Meopham School
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000011FK	26/05/2010	TQ642658	Meopham School
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFG	12/11/2018	TQ64386766	Meopham DA13 ONF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFI	11/11/2018	TQ64386766	Meopham DA13 ONF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500002MFE	30/10/2018	TQ644676	Meopham DA13 ONF
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000012K4	06/07/2013	TQ64596744	
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000FG	26/08/1974	TQ6465	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00027800000C4V	2005	TQ646658	Arnold Avenue, Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500000035	19/05/1964	TQ6467	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000BZ	23/05/1971	TQ6664	Great Buckland
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000331Q	July 1998	TQ66G	Culverstone Green
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003D6H	16/06/2001	TQ66G	Culverstone Green
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000034XP	December 1998	TQ66H	Elbows Wood
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003CIW	24/12/2000	TQ66I	Orange Hill
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003EEF	30/12/2001	TQ66L	Harvel
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000H1	29/05/1978	TQ66N	Meopham
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000JC	06/09/1980	TQ66T	Sole Street
<i>Lepus europaeus</i>	Brown Hare	UKBAP_P, NERC_S.41	SR000405000002AT	13/04/1962	TQ6465	Meopham
<i>Lepus europaeus</i>	Brown Hare	"	SR00026600002VNP	20/07/1996	TQ66T	Luddesdown
<i>Muscardinus avellanarius</i>	Hazel Dormouse	UKBAP_P, NERC_S.41	SR00040500001520	30/10/2013	TQ660666	henley wood, sole street

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L1	20/04/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L2	18/07/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L3	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L4	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L5	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000565000012L6	03/10/2011	TQ660667	Henley Wood
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EU	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EV	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EW	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000011EX	15/10/2012	TQ660667	henley farm, sole street
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR000405000004BF	17/05/1965	TQ6664	Great Buckland
<i>Muscardinus avellanarius</i>	Hazel Dormouse	"	SR00026600003BW0	23/08/2000	TQ66T	Luddesdown

[#] The prominent bat dataset is displayed in the enclosed Kent Bat Group Bat Report.

Invasive Non-native Species Inventory

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**Biological
Records Centre**

Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/21/301

2km radius search surrounding - TQ6436165935

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Heracleum mantegazzianum</i>	Giant Hogweed	WCA9ii	SR0001450003Z06U	27/06/2019	TQ6363	Culverstone Green north - South Street
<i>Heracleum mantegazzianum</i>	Giant Hogweed	"	SR00026600008YVS	1991 - 2000	TQ66G	Culverstone Green
<i>Crocsmia pottsii x aurea = C. x crocosmiiflora</i>	Montbretia	WCA9ii	SR0001450003DBX1	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Petasites fragrans</i>	Winter Heliotrope	N/A	SR0001450003ZAID	12/07/2019	TQ6267	Longfield Hill south
<i>Petasites fragrans</i>	Winter Heliotrope	"	SR0001450003ZAI1	27/06/2019	TQ6363	Culverstone Green north - South Street
<i>Petasites fragrans</i>	Winter Heliotrope	"	SR00026600008YZZ	1991 - 2000	TQ66G	Culverstone Green
<i>Petasites fragrans</i>	Winter Heliotrope	"	SR00026600007PFN	23/01/2004	TQ66I	Orange Hill
<i>Petasites fragrans</i>	Winter Heliotrope	"	SR0002660000905K	1991 - 2000	TQ66N	Sole Street
<i>Fallopia japonica</i>	Japanese Knotweed	WCA9ii	SR00026600008YWQ	1991 - 2000	TQ66G	Culverstone Green
<i>Fallopia japonica</i>	Japanese Knotweed	"	SR00026600008ZUZ	1991 - 2000	TQ66L	Harvel
<i>Fallopia japonica</i>	Japanese Knotweed	"	SR00026600008ZW1	1991 - 2000	TQ66M	Meopham Green
<i>Fallopia japonica</i>	Japanese Knotweed	"	SR00026600009066	1991 - 2000	TQ66N	Sole Street
<i>Impatiens glandulifera</i>	Indian Balsam	WCA9ii	SR00026600008ZSD	1991 - 2000	TQ66L	Harvel
<i>Rhododendron ponticum</i>	Rhododendron ponticum	WCA9ii	SR0001450002HPLV	24/07/2016	TQ6364	Meopham Green south - West Lodge
<i>Rhododendron ponticum</i>	Rhododendron ponticum	"	SR0001450001N3NX	01/11/2015	TQ6466	Meopham north
<i>Rhododendron ponticum</i>	Rhododendron ponticum	"	SR0001450001N3NZ	29/11/2015	TQ6564	Priestwood
<i>Rhododendron ponticum</i>	Rhododendron ponticum	"	SR00026600008Z1D	1991 - 2000	TQ66G	Culverstone Green
<i>Lamiastrum galeobdolon subsp. argentatum</i>	Yellow Archangel	WCA9ii	SR0001450003DBX9	22/08/2017	TQ6464	Meopham Green south east - David Street
<i>Lamiastrum galeobdolon subsp. argentatum</i>	Yellow Archangel	"	SR0001450001MYDP	19/01/2015	TQ6567	Sole Street - Camer
<i>Lamiastrum galeobdolon subsp. argentatum</i>	Yellow Archangel	"	SR0001450003C7E5	27/08/2017	TQ6567	Sole Street - Camer

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Lamiastrum galeobdolon</i> subsp. <i>argentatum</i>	Yellow Archangel	"	SR0001450003YTP0	07/04/2019	TQ6666	Luddesdown
<i>Lamiastrum galeobdolon</i> subsp. <i>argentatum</i>	Yellow Archangel	"	SR0002660000905A	1991 - 2000	TQ66N	Sole Street
<i>Cotoneaster horizontalis</i>	Wall Cotoneaster	WCA9ii	SR00014500003NGE	1984	TQ66	New Ash Green
<i>Cotoneaster simonsii</i>	Himalayan Cotoneaster	WCA9ii	SR0001450003BOXJ	11/08/2015	TQ6419365752	Meopham Library
<i>Leptoglossus occidentalis</i>	Western Conifer Seed Bug	N/A	SR0001450003SHWA	04/12/2018	TQ654677	Sole Street, Cobham, Kent. DA13 9BN



Kent Bird Records Summary

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Biological
Records Centre

Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/21/301

This search area contained sensitive breeding bird records which are not included below. For further details, please contact KMBRC.

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Little Egret	<i>Egretta garzetta</i>	Berne:A2; BoCC4:Green; ECCITES:A; BirdsDir:A1; KRDB3	1		03/01/2016	Hook Green (TQ6467)	03/01/2016	N
Grey Heron	<i>Ardea cinerea</i>	Berne:A3; KRDB3	2	14/04/2002	09/09/2004	Meopham (Happy Valley) (TQ6465)	09/09/2004	N
Red Kite	<i>Milvus milvus</i>	Berne:A3; BoCC4:Green; Bonn:A2; ECCITES:A; BirdsDir:A1; WCA1	3	20/04/2017	11/11/1982	Meopham (TQ6466)	20/04/2017	N
Sparrowhawk	<i>Accipiter nisus</i>	Berne:A3; Bonn:A2; ECCITES:A	5		14/03/2014	Meopham (Happy Valley) (TQ6465)	30/10/2004	N
Common Buzzard	<i>Buteo buteo</i>	Berne:A3; Bonn:A2; ECCITES:A	18	11/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	15/05/2019	N
Kestrel	<i>Falco tinnunculus</i>	Berne:A2; BoCC4:Amber; Bonn:A2; ECCITES:A	20	01/06/2018	21/09/2018	Meopham (Happy Valley) (TQ6465)	06/09/2004	Y
Hobby	<i>Falco subbuteo</i>	Berne:A2; Bonn:A2; ECCITES:A; WCA1	2	15/05/2019		Meopham (Happy Valley) (TQ6465)	15/05/2019	N
Peregrine	<i>Falco peregrinus</i>	Berne:A2; BoCC4:Green (subsp. Amber); Bonn:A2; ECCITES:A; BirdsDir:A1; KRDB1; WCA1	1	07/04/2015		Hook Green (TQ6467)	07/04/2015	N
Red-legged Partridge	<i>Alectoris rufa</i>	Berne:A3; BirdsDir:A2.1	4	01/06/1989		TQ66 (TQ66H)	01/06/1989	Y
Grey Partridge	<i>Perdix perdix</i>	BAP; Berne:A3; BoCC4:Red; BirdsDir:A2.1; KRDB2; S41	2	01/06/1989		TQ66 (TQ66N)	01/06/1968	Y

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Quail	<i>Coturnix coturnix</i>	Berne:A3; BoCC4:Amber; Bonn:A2; BirdsDir:A2.2; KRDB1; WCA1	1	01/06/1989		TQ66 (TQ66I)	01/06/1989	N
Pheasant	<i>Phasianus colchicus</i>	Berne:A3; BirdsDir:A2.1	26	24/05/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Moorhen	<i>Gallinula chloropus</i>	Berne:A3; Bonn:A2; BirdsDir:A2.2	2	21/06/2013		Camer Park (TQ6566)	21/06/2013	N
Lapwing	<i>Vanellus vanellus</i>	BAP; Berne:A3; BoCC4:Red; Bonn:A2; BirdsDir:A2.2; KRDB2; S41	5	01/06/1989	18/12/1996	TQ66 (TQ66I)	01/06/1989	Y
Dunlin	<i>Calidris alpina</i>	Berne:A2; BoCC4:Amber; Bonn:A2; BirdsDir:A1; KRDB2	1	03/06/2013		Henley Wood (Luddesdown) (TQ665665)	03/06/2013	N
Woodcock	<i>Scolopax rusticola</i>	Berne:A3; BoCC4:Red; Bonn:A2; BirdsDir:A2.1	1	01/06/1979		Churchlands Wood (Luddesdown) CBC Site (TQ6664)	01/06/1979	Y
Black-headed Gull	<i>Larus ridibundus</i>	Berne:A3; BoCC4:Amber; BirdsDir:A2.2	5	03/04/2005	23/09/2019	Meopham (Happy Valley) (TQ6465)	03/04/2005	N
Common Gull	<i>Larus canus</i>	Berne:A3; BoCC4:Amber; BirdsDir:A2.2; KRDB1	5		06/03/2017	Meopham (Happy Valley) (TQ6465)	01/01/2016	N
Feral Pigeon	<i>Columba livia</i>	Berne:A3; ECCITES:A; BirdsDir:A2.1	4	01/06/1989	08/09/2018	Meopham (TQ6466)	08/09/2018	Y
Stock Dove	<i>Columba oenas</i>	Berne:A3; BoCC4:Amber; BirdsDir:A2.2	6	11/06/2019		Camer Park (TQ6566)	11/06/2019	N
Wood Pigeon	<i>Columba palumbus</i>	BirdsDir:A2.1	60	11/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Collared Dove	<i>Streptopelia decaocto</i>	Berne:A3; BirdsDir:A2.2	20	11/06/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	15/05/2019	Y
Turtle Dove	<i>Streptopelia turtur</i>	BAP; Berne:A3; BoCC4:Red; Bonn:A2; ECCITES:A; BirdsDir:A2.2; KRDB2; S41	17	03/06/2013		Meopham (Happy Valley) (TQ6465)	13/06/2003	Y
Ring-necked Parakeet	<i>Psittacula krameri</i>	Berne:A3; ECCITES:C	8	02/06/2017	08/09/2018	Meopham (Happy Valley) (TQ6465)	18/01/2016	N
Cuckoo	<i>Cuculus canorus</i>	BAP; Berne:A3; BoCC4:Red; S41; KRDB2	20	05/05/2017		Meopham (Happy Valley) (TQ6465)	05/05/2017	Y
Barn Owl	<i>Tyto alba</i>	Berne:A2; BoCC4:Green; ECCITES:A; WCA1	1	01/06/1989		TQ66 (TQ66N)	01/06/1989	N
Little Owl	<i>Athene noctua</i>	Berne:A2; ECCITES:A	5	01/06/1989	06/02/2012	TQ66 (TQ66M)	01/06/1989	Y

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Tawny Owl	<i>Strix aluco</i>	Berne:A2; BoCC4:Amber; ECCITES:A	13	12/05/2016	06/01/2017	Meopham (Happy Valley) (TQ6465)	06/01/2017	Y
Short-eared Owl	<i>Asio flammeus</i>	Berne:A2; BoCC4:Amber; ECCITES:A; BirdsDir:A1	2	10/04/1994	02/11/2003	Meopham (TQ6466)	02/11/2003	N
Swift	<i>Apus apus</i>	Berne:A3; BoCC4:Amber	7	01/06/2018	23/08/2015	Meopham (Happy Valley) (TQ6465)	23/08/2015	Y
Wryneck	<i>Jynx torquilla</i>	BAP; Berne:A2; WCA1	1		19/09/1991	Meopham (TQ6466)	19/09/1991	N
Green Woodpecker	<i>Picus viridis</i>	Berne:A2; BoCC4:Green	33	11/06/2019	26/01/2018	Meopham (Happy Valley) (TQ6465)	29/04/2019	Y
Great Spotted Woodpecker	<i>Dendrocopus major</i>	Berne:A2; BoCC4:Green	30	11/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	03/01/2017	Y
Lesser Spotted Woodpecker	<i>Dendrocopus minor</i>	BAP; Berne:A2; BoCC4:Red; KRDB2; S41	1	01/06/1989		TQ66 (TQ66M)	01/06/1989	N
Skylark	<i>Alauda arvensis</i>	BAP; Berne:A3; BoCC4:Red; BirdsDir:A2.2; KRDB2; S41	14	11/06/2019	27/03/2015	Meopham (TQ6466)	13/03/2014	Y
Sand Martin	<i>Riparia riparia</i>	Berne:A2; BoCC4:Green	1		23/09/2019	Camer Park (TQ6566)	23/09/2019	N
Swallow	<i>Hirundo rustica</i>	Berne:A2; BoCC4:Green	18	14/07/2017	26/09/2004	Meopham (Happy Valley) (TQ6465)	09/04/2011	Y
House Martin	<i>Delichon urbica</i>	Berne:A2; BoCC4:Amber	24	19/05/2016	08/09/2018	Meopham (Happy Valley) (TQ6465)	19/05/2016	Y
Tree Pipit	<i>Anthus trivialis</i>	BAP; Berne:A2; BoCC4:Red; KRDB2; S41	1	01/06/1989		TQ66 (TQ66N)	01/06/1989	N
Pied Wagtail	<i>Motacilla alba yarrellii</i>	Berne:A2; BoCC4:Green (subsp. Amber)	8	01/06/1989	27/03/2015	Meopham (TQ6466)	31/01/2012	Y
White Wagtail	<i>Motacilla alba alba</i>	Berne:A2	1		22/11/2016	Hook Green (TQ6467)	22/11/2016	N
Waxwing	<i>Bombycilla garrulus</i>	Berne:A2	7	02/04/2013	22/01/2017	Meopham (TQ6466)	22/01/2017	N
Wren	<i>Troglodytes troglodytes</i>	Berne:A2	50	11/06/2019	05/02/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Dunnock	<i>Prunella modularis</i>	BAP; Berne:A2; BoCC4:Amber; S41	47	15/05/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	15/05/2019	Y
Robin	<i>Erithacus rubecula</i>	Berne:A2; Bonn:A2	59	14/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	15/05/2019	Y
Nightingale	<i>Luscinia megarhynchos</i>	Berne:A2; BoCC4:Red; Bonn:A2; KRDB3	4	01/06/1989		TQ66 (TQ66M)	01/06/1989	Y
Blackbird	<i>Turdus merula</i>	Berne:A3; BirdsDir:A2.2	73	14/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Fieldfare	<i>Turdus pilaris</i>	Berne:A3; BoCC4:Red; BirdsDir:A2.2; WCA1	5		13/03/2013	Meopham (Happy Valley) (TQ6465)	21/11/2005	N
Song Thrush	<i>Turdus philomelos</i>	BAP; Berne:A3; BoCC4:Red; BirdsDir:A2.2; KRDB2; S41	41	11/06/2019	05/02/2019	Meopham (Happy Valley) (TQ6465)	29/04/2019	Y
Redwing	<i>Turdus iliacus</i>	Berne:A3; BoCC4:Red; BirdsDir:A2.2; WCA1	10	05/04/2007	05/02/2019	Meopham (Happy Valley) (TQ6465)	27/09/2010	N
Mistle Thrush	<i>Turdus viscivorus</i>	Berne:A3; BoCC4:Red; BirdsDir:A2.2	25	14/07/2017	23/09/2019	Meopham (Happy Valley) (TQ6465)	03/01/2017	Y
Lesser Whitethroat	<i>Sylvia curruca</i>	Berne:A2	13	24/05/2019	06/09/2004	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Whitethroat	<i>Sylvia communis</i>	Berne:A2; BoCC4:Green	30	11/06/2019	26/09/2004	Meopham (Happy Valley) (TQ6465)	20/05/2019	Y
Garden Warbler	<i>Sylvia borin</i>	Berne:A2	6	17/05/2004		TQ66 (TQ66H)	01/06/1989	Y
Blackcap	<i>Sylvia atricapilla</i>	Berne:A2	47	11/06/2019	08/01/2017	Meopham (Happy Valley) (TQ6465)	20/05/2019	Y
Wood Warbler	<i>Phylloscopus sibilatrix</i>	BAP; Berne:A2; BoCC4:Red; S41	1	01/06/1989		TQ66 (TQ66H)	01/06/1989	N
Chiffchaff	<i>Phylloscopus collybita</i>	Berne:A2	53	11/06/2019	21/03/2016	Meopham (Happy Valley) (TQ6465)	29/04/2019	Y
Willow Warbler	<i>Phylloscopus trochilus</i>	Berne:A2; BoCC4:Amber	12	28/04/2007		Meopham (Happy Valley) (TQ6465)	28/04/2007	Y
Goldcrest	<i>Regulus regulus</i>	Berne:A2	12	02/06/2017	05/01/2016	Meopham (TQ6466)	23/11/2015	Y
Spotted Flycatcher	<i>Muscicapa striata</i>	BAP; Berne:A2; BoCC4:Red; Bonn:A2; KRDB2; S41	6	12/05/2015		Meopham (Happy Valley) (TQ6465)	20/06/2004	Y
Long-tailed Tit	<i>Aegithalos caudatus</i>	Berne:A3; BoCC4:Green (subsp. Amber)	21	01/06/2018	26/01/2018	Meopham (Happy Valley) (TQ6465)	28/04/2007	Y
Marsh Tit	<i>Parus palustris</i>	BAP; Berne:A2; BoCC4:Red; S41; KRDB2	10	01/06/1989	04/01/2015	TQ66 (TQ66M)	01/06/1968	Y
Coal Tit	<i>Parus ater</i>	Berne:A2; BoCC4:Green (subsp. Amber)	13	02/06/2017	30/03/2019	Meopham (Happy Valley) (TQ6465)	30/03/2019	Y
Blue Tit	<i>Parus caeruleus</i>	Berne:A2; BoCC4:Green (subsp. Amber)	60	11/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Great Tit	<i>Parus major</i>	Berne:A2	52	11/06/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	29/04/2019	Y
Nuthatch	<i>Sitta europaea</i>	Berne:A2	25	11/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	07/02/2018	Y
Treecreeper	<i>Certhia familiaris</i>	Berne:A2; BoCC4:Green (subsp. Amber)	9	01/06/1989	21/03/2016	TQ66 (TQ66H)	01/06/1989	Y

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Jay	<i>Garrulus glandarius</i>	BoCC4:Green (subsp. Amber); BirdsDir:A2.2	19	30/04/2013	15/09/2014	Meopham (Happy Valley) (TQ6465)	12/09/2004	Y
Magpie	<i>Pica pica</i>	BirdsDir:A2.2	46	15/05/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	15/05/2019	Y
Jackdaw	<i>Corvus monedula</i>	BirdsDir:A2.2	35	24/05/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Rook	<i>Corvus frugilegus</i>	BirdsDir:A2.2	25	14/07/2017	08/09/2018	Meopham (Happy Valley) (TQ6465)	06/01/2017	Y
Carrion Crow	<i>Corvis corone corone</i>	BirdsDir:A2.2	67	11/06/2019	23/09/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Starling	<i>Sturnus vulgaris</i>	BAP; BoCC4:Red; BirdsDir:A2.2; S41; KRDB2	44	24/05/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
House Sparrow	<i>Passer domesticus</i>	BAP; BoCC4:Red; KRDB2; S41	19	24/05/2019	16/09/2018	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Tree Sparrow	<i>Passer montanus</i>	BAP; Berne:A3; BoCC4:Red; KRDB2; S41	5	01/06/1989		TQ66 (TQ66I)	01/06/1968	Y
Chaffinch	<i>Fringilla coelebs</i>	Berne:A3; BoCC4:Green (subsp. Amber)	63	11/06/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	20/05/2019	Y
Brambling	<i>Fringilla montifringilla</i>	Berne:A3; WCA1	9		04/03/2016	Meopham (Happy Valley) (TQ6465)	04/03/2016	N
Greenfinch	<i>Carduelis chloris</i>	Berne:A2; BoCC4:Green (subsp. Red)	25	24/05/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Goldfinch	<i>Carduelis carduelis</i>	Berne:A2; BoCC4:Green (subsp. Amber)	44	11/06/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	24/05/2019	Y
Siskin	<i>Carduelis spinus</i>	Berne:A2; KRDB1	1		06/09/2015	Hook Green (TQ6467)	06/09/2015	N
Linnet	<i>Carduelis cannabina</i>	BAP; Berne:A2; BoCC4:Red; KRDB2; S41	20	11/06/2019	25/03/2005	Meopham (Happy Valley) (TQ6465)	29/04/2019	Y
Lesser Redpoll	<i>Carduelis cabaret</i>	BAP; Berne:A3; BoCC4:Red; KRDB1; S41	7	01/06/1989	31/03/2018	Meopham (Happy Valley) (TQ6465)	31/03/2018	Y
Bullfinch	<i>Pyrrhula pyrrhula</i>	BAP; Berne:A3; BoCC4:Amber; S41	8	15/05/1993	17/03/2009	Meopham (Happy Valley) (TQ6465)	17/03/2009	Y
Hawfinch	<i>Coccothraustes coccothraustes</i>	BAP; Berne:A2; BoCC4:Red; KRDB1; S41	4	01/06/1989		TQ66 (TQ66H)	01/06/1989	N
Yellowhammer	<i>Emberiza citrinella</i>	BAP; Berne:A2; BoCC4:Red; KRDB2; S41	25	20/05/2019	30/03/2019	Meopham (Happy Valley) (TQ6465)	20/05/2019	Y
Corn Bunting	<i>Miliaria calandra</i>	BAP; Berne:A3; BoCC4:Red; KRDB2; S41	7	30/04/2016		TQ66 (TQ66H)	01/06/1989	Y



**Kent
Bat
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**Biological
Records Centre**

Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/21/301

5km radius search surrounding TQ6436165935

9 species of bat, of the 15 species recorded in Kent, have been recorded in this area.

Only 10 of the 15 species found in Kent have been recorded more than a few times.

Common Name	Latin Name	Designation Summary See supporting information for further information.	Number of		Nearest Location	Date of Nearest
			Non-Roost Records	Roost Records		
Serotine Bat	<i>Eptesicus serotinus</i>	HabDir:A4; Berne:A2; Bonn:A2; WCA5; KRDB3	10	2	TQ650671	01/08/2019
Alcathoe Bat	<i>Myotis alcathoe</i>		0	0		
Bechstein's Bat	<i>Myotis bechsteinii</i>		0	0		
Brandt's Bat	<i>Myotis brandtii</i>		0	0		
Daubenton's Bat	<i>Myotis daubentonii</i>	HabDir:A4; Berne:A2; Bonn:A2; WCA5	0	39	TQ658617	20/02/2000
Greater Mouse-Eared Bat	<i>Myotis myotis</i>		0	0		
Whiskered Bat	<i>Myotis mystacinus</i>	HabDir:A4; Berne:A2; Bonn:A2; WCA5; KRDB1	0	2	TQ668686	17/04/1995
Natterer's Bat	<i>Myotis nattereri</i>	HabDir:A4; Berne:A2; Bonn:A2; WCA5; KRDB2	0	41	TQ647686	28/12/2009
Leisler's Bat	<i>Nyctalus leisleri</i>	HabDir:A4; Berne:A2; Bonn:A2; WCA5; KRDB1	9	52	TQ650671	22/08/2019
Noctule Bat	<i>Nyctalus noctula</i>	HabDir:A4; Berne:A2; Bonn:A2; BAP; S41; WCA5; KRDB2	6	1	TQ650671	01/08/2019
Nathusius' Pipistrelle Bat	<i>Pipistrellus nathusii</i>		0	0		
Pipistrelle Bat (45kHz)	<i>Pipistrellus pipistrellus</i>	HabDir:A4; Berne:A3; Bonn:A2; WCA5	67	9	TQ644660	09/10/2003
Pipistrelle Bat (55kHz)	<i>Pipistrellus pygmaeus</i>	HabDir:A4; Berne:A2; Bonn:A2; BAP; S41; WCA5	21	1	TQ644678	10/08/2017
Long-eared Bat Brown	<i>Plecotus auritus</i>	HabDir:A4; Berne:A2; Bonn:A2; BAP; S41; WCA5; KRDB2	18	34	TQ645658	19/05/1991
Long-Eared Bat Grey	<i>Plecotus austriacus</i>		0	0		

Note that **all** bats have at least the following designations: HabDir:A4; Berne:A2; Bonn:A2; WCA5



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Area requested - Holly Cottage Development.

Enquiry on behalf of Gordon McQuade, Gordon McQuade Architect

06/07/2021 ENQ/21/301

5km radius search surrounding TQ6436165935

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ5964	TQ595646	5.0 (4.9 - 5.0)	Long-Eared Bat Brown	Roost (unknown type)	1	Examined In Hand	04/11/2005
TQ5964	TQ596644	4.9 (4.9 - 5.0)	Pipistrelle Bat (45kHz)	Roost (unknown type)	15	Examined in Hand	04/07/1998
TQ5964	TQ597646	4.8 (4.7 - 4.8)	Long-Eared Bat Brown	Grounded Bat	1	Examined in Hand	29/09/2003
TQ6063	TQ603638	4.5 (4.5 - 4.6)	Long-Eared Bat Brown	Roost (unknown type)	8	Sight Record Only	12/07/1996
TQ6063	TQ603638	4.5 (4.5 - 4.6)	Long-Eared Bat Brown	Roost (unknown type)	1	Examined in Hand	19/07/1996
TQ6063	TQ6090463 850	4.0 (4.0 - 4.0)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	13/06/2005
TQ6064	TQ6017464 199	4.5 (4.5 - 4.5)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	13/06/2005
TQ6064	TQ602646	4.3 (4.2 - 4.4)	Long-Eared Bat Brown	Flying Bat	1	Bat Detector	13/07/2015
TQ6064	TQ602646	4.3 (4.2 - 4.4)	Noctule Bat	Flying Bat Feeding	2	Bat Detector	13/07/2015
TQ6064	TQ602646	4.3 (4.2 - 4.4)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	6	Sight & Bat Detector	13/07/2015
TQ6064	TQ603646	4.2 (4.1 - 4.3)	Bat	Roost (unknown type)	N/A	Droppings Only	09/09/1992
TQ6064	TQ603646	4.2 (4.1 - 4.3)	Bat	Roost (unknown type)	2	Sight Record Only	10/01/1993
TQ6064	TQ603646	4.2 (4.1 - 4.3)	Bat	Roost (unknown type)	N/A	Sight Record Only	01/06/1996
TQ6064	TQ603646	4.2 (4.1 - 4.3)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	1	Sight Record Only	13/05/1993
TQ6064	TQ603646	4.2 (4.1 - 4.3)	Pipistrellus species	Roost (unknown type)	N/A	Close Observation	24/01/1993
TQ6065	TQ600651	4.4 (4.3 - 4.4)	Pipistrelle Bat (45kHz)	Flying Bat	4	Sight & Bat Detector	03/09/2012
TQ6065	TQ600651	4.4 (4.3 - 4.4)	Serotine Bat	Flying Bat	1	Sight & Bat Detector	03/09/2012
TQ6065	TQ6017765 383	4.2 (4.2 - 4.2)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6065	TQ603655	4.0 (4.0 - 4.1)	Pipistrelle Bat (55kHz)	Grounded Bat	1	Examined in Hand	24/08/1999
TQ6065	TQ604659	3.9 (3.9 - 4.0)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	10/07/1994
TQ6065	TQ605658	3.8 (3.8 - 3.9)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined in Hand	21/06/2003
TQ6065	TQ606653	3.8 (3.7 - 3.8)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	3	Sound Analysis	04/07/2019

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6065	TQ606653	3.8 (3.7 - 3.8)	Pipistrelle Bat (55kHz)	Flying Bat Feeding	1	Sound Analysis	04/07/2019
TQ6065	TQ6078665346	3.6 (3.6 - 3.6)	Leisler's Bat	Flying Bat	1	Bat Detector	01/08/2006
TQ6065	TQ608651	3.6 (3.5 - 3.7)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	05/07/2011
TQ6065	TQ608654	3.5 (3.5 - 3.6)	Pipistrelle Bat (55kHz)	Grounded Bat	1	Examined In Hand	18/02/2016
TQ6065	TQ608658	3.5 (3.5 - 3.6)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	04/11/2019
TQ6065	TQ609651	3.5 (3.4 - 3.6)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	08/05/1998
TQ6065	TQ609652	3.5 (3.4 - 3.5)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	05/07/2011
TQ6066	TQ604668	4.0 (4.0 - 4.1)	Long-Eared species	Roost (unknown type)	N/A	Droppings Only	10/09/2008
TQ6067	TQ604677	4.3 (4.2 - 4.4)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	07/06/1993
TQ6067	TQ606671	3.9 (3.8 - 4.0)	Long-Eared Bat Brown	Flying Bat	1	Bat Detector	28/07/2011
TQ6067	TQ606671	3.9 (3.8 - 4.0)	Long-Eared Bat Brown	Grounded Bat	1	Close Observation	28/07/2011
TQ6067	TQ606674	4.0 (3.9 - 4.1)	Bat	Roost (unknown type)	1	Sight Record Only	10/09/1992
TQ6067	TQ606674	4.0 (3.9 - 4.1)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	16/07/1993
TQ6067	TQ607674	3.9 (3.9 - 4.0)	Myotis species	Roost (unknown type)	1	Droppings Only	08/03/2003
TQ6067	TQ609674	3.7 (3.7 - 3.8)	Bat	Roost (unknown type)	N/A	Droppings Only	07/11/1994
TQ6067	TQ609675	3.8 (3.7 - 3.8)	Leisler's Bat	Grounded Bat	1	Examined in Hand	01/08/1995
TQ6067	TQ609677	3.9 (3.8 - 3.9)	Bat	Roost (unknown type)	10	Sight Record Only	29/05/1998
TQ6068	TQ603681	4.6 (4.5 - 4.7)	Pipistrelle Bat (45kHz)	Roost (unknown type)	59	Examined in Hand	03/07/1999
TQ6068	TQ604681	4.5 (4.4 - 4.6)	Bat	Roost (unknown type)	28	Sight Record Only	16/07/1996
TQ6068	TQ605685	4.6 (4.6 - 4.7)	Pipistrelle Bat (45kHz)	Roost (unknown type)	1	Bat Detector	03/06/2010
TQ6068	TQ605686	4.7 (4.6 - 4.7)	Long-Eared Bat Brown	Grounded Bat	1	Examined In Hand	03/09/2016
TQ6068	TQ605687	4.7 (4.7 - 4.8)	Pipistrellus (45 or 55kHz) species	Flying Bat	2	Sight Record Only	01/07/2015
TQ6068	TQ606684	4.5 (4.4 - 4.6)	Pipistrelle Bat (55kHz)	Grounded Bat	1	Examined In Hand	20/09/2015
TQ6162	TQ6133462910	4.3 (4.3 - 4.3)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	13/06/2005
TQ6162	TQ6142862574	4.5 (4.5 - 4.5)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	13/06/2005
TQ6163	TQ613633	4.0 (3.9 - 4.0)	Long-Eared Bat Brown	Maternity Roost	50	Close Observation	26/06/1989
TQ6163	TQ613633	4.0 (3.9 - 4.0)	Long-Eared species	Maternity Roost	149	Droppings Only	18/05/1990
TQ6163	TQ613633	4.0 (3.9 - 4.0)	Long-Eared species	Roost (unknown type)	N/A	Droppings Only	06/06/1990
TQ6163	TQ615638	3.5 (3.4 - 3.6)	Bat	Roost (unknown type)	N/A	Sight Record Only	10/10/1995
TQ6163	TQ6163	3.8 (3.1 - 4.5)	Bat	Roost (unknown type)	2	Sight Record Only	29/04/1997

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Bat	Maternity Roost	3	Sight Record Only	01/07/1999
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	125	Sight Record Only	01/06/1988
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	66	Examined in Hand	12/06/1989
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	80	Sight Record Only	16/06/1989
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	14	Sight Record Only	03/05/1990
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	103	Sight Record Only	12/05/1990
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	117	Sight Record Only	16/05/1990
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	104	Sight Record Only	23/06/1990
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	2	Sight Record Only	10/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	11	Sight Record Only	13/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	14	Sight Record Only	14/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	5	Sight Record Only	18/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	4	Sight Record Only	19/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	29	Sight Record Only	20/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	49	Sight Record Only	21/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	32	Sight Record Only	22/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	58	Sight Record Only	23/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	60	Sight Record Only	24/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	87	Sight Record Only	25/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	106	Sight Record Only	28/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	32	Sight Record Only	31/05/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	48	Sight Record Only	01/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	35	Sight Record Only	03/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	37	Sight Record Only	04/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	35	Sight Record Only	05/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	38	Sight Record Only	06/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	79	Sight Record Only	07/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	83	Sight Record Only	08/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	83	Sight Record Only	09/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	71	Sight Record Only	10/06/1991

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	57	Sight Record Only	13/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	70	Sight Record Only	14/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	70	Sight Record Only	15/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	93	Sight Record Only	16/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	81	Sight Record Only	28/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	80	Sight Record Only	29/06/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	2	Sight Record Only	01/07/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	50	Sight Record Only	07/07/1991
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	14	Sight Record Only	15/05/1993
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	119	Sight Record Only	29/05/1993
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	93	Sight Record Only	04/06/1993
TQ6165	TQ613651	3.1 (3.1 - 3.2)	Pipistrellus (45 or 55kHz) species	Maternity Roost	97	Sight Record Only	15/07/1993
TQ6165	TQ614652	3.0 (2.9 - 3.1)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	25/06/1998
TQ6165	TQ614655	2.9 (2.9 - 3.0)	Pipistrellus species	Maternity Roost	N/A	Droppings Only	10/08/2008
TQ6166	TQ611660	3.2 (3.2 - 3.3)	Pipistrelle Bat (55kHz)	Grounded Bat	1	Examined In Hand	19/06/2017
TQ6166	TQ613666	3.1 (3.0 - 3.2)	Pipistrellus species	Roost (unknown type)	N/A	Droppings Only	29/11/2000
TQ6166	TQ613667	3.1 (3.1 - 3.2)	Bat	Roost (unknown type)	1	Sight Record Only	01/07/1989
TQ6167	TQ611671	3.4 (3.4 - 3.5)	Serotine Bat	Hibernating Bat	1	Examined in Hand	30/03/2000
TQ6167	TQ612679	3.7 (3.6 - 3.8)	Bat	Roost (unknown type)	N/A	Droppings Only	18/03/2004
TQ6167	TQ613673	3.3 (3.3 - 3.4)	Pipistrellus (45 or 55kHz) species	Maternity Roost	2	Examined in Hand	02/07/1997
TQ6167	TQ614677	3.4 (3.4 - 3.5)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	3	Sight & Bat Detector	22/05/2012
TQ6167	TQ616674	3.1 (3.0 - 3.2)	Bat	Roost (unknown type)	N/A	Droppings Only	01/11/1993
TQ6167	TQ616674	3.1 (3.0 - 3.2)	Bat	Roost (unknown type)	N/A	Droppings Only	10/11/1994
TQ6168	TQ611686	4.2 (4.1 - 4.3)	Serotine Bat	Flying Bat	2	Sight & Bat Detector	12/10/1986
TQ6168	TQ615687	4.0 (3.9 - 4.0)	Bat	Flying Bat	N/A	Sight Record Only	12/06/1993
TQ6168	TQ6168	3.8 (3.1 - 4.5)	Leisler's Bat	Roost (unknown type)	1	Examined in Hand	03/03/1996
TQ6168	TQ618688	3.8 (3.8 - 3.9)	Bat	Flying Bat	2	Sight Record Only	27/07/1986
TQ6168	TQ618688	3.8 (3.8 - 3.9)	Long-Eared Bat Brown	Grounded Bat	1	Examined In Hand	19/08/2013
TQ6168	TQ619687	3.7 (3.6 - 3.8)	Bat	Flying Bat	3	Sight Record Only	01/11/1997
TQ6168	TQ619688	3.8 (3.7 - 3.9)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	1	Examined in Hand	03/03/1989

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6169	TQ615694	4.5 (4.4 - 4.6)	Bat	Flying Bat	1	Sight Record Only	06/04/1995
TQ6169	TQ619692	4.1 (4.0 - 4.2)	Leisler's Bat	Grounded Bat	1	Examined in Hand	03/03/1996
TQ6169	TQ619692	4.1 (4.0 - 4.2)	Long-Eared Bat Brown	Grounded Bat	1	Examined in Hand	20/05/1991
TQ6261	TQ621616	4.8 (4.8 - 4.9)	Bat	Roost (unknown type)	N/A	Examined in Hand	03/10/1986
TQ6261	TQ621616	4.8 (4.8 - 4.9)	Bat	Roost (unknown type)	N/A	Droppings Only	11/11/1994
TQ6261	TQ621616	4.8 (4.8 - 4.9)	Bat	Roost (unknown type)	25	Sight Record Only	08/08/1995
TQ6261	TQ624613	5.0 (4.9 - 5.0)	Pipistrelle Bat (45kHz)	Grounded Bat	N/A	Examined in Hand	28/06/2002
TQ6262	TQ624629	3.5 (3.5 - 3.6)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	1	Examined in Hand	26/09/1998
TQ6265	TQ6203365488	2.4 (2.4 - 2.4)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6267	TQ621678	2.9 (2.9 - 3.0)	Bat	Flying Bat	2	Sight Record Only	18/09/1986
TQ6268	TQ621689	3.7 (3.7 - 3.8)	Bat	Flying Bat	2	Sight Record Only	22/11/1992
TQ6268	TQ623687	3.5 (3.4 - 3.5)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	17/05/1997
TQ6268	TQ623687	3.5 (3.4 - 3.5)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	28/07/1997
TQ6268	TQ624686	3.3 (3.2 - 3.4)	Bat	Roost (unknown type)	N/A	Close Observation	04/11/2002
TQ6268	TQ624689	3.6 (3.5 - 3.6)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	18/09/1990
TQ6269	TQ621691	3.9 (3.8 - 4.0)	Pipistrelle Bat (45kHz)	Roost (unknown type)	2	Examined in Hand	13/07/1998
TQ6269	TQ621692	4.0 (3.9 - 4.1)	Leisler's Bat	Hibernating Bat	1	Examined in Hand	17/12/1987
TQ6269	TQ621698	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	2	Close Observation	15/01/2006
TQ6269	TQ622697	4.4 (4.3 - 4.4)	Long-Eared species	Droppings Only	N/A	Droppings Only	23/01/2015
TQ6269	TQ625691	3.7 (3.6 - 3.8)	Bat	Flying Bat	1	Sight Record Only	03/09/1986
TQ6269	TQ625691	3.7 (3.6 - 3.8)	Bat	Flying Bat	10	Sight Record Only	20/06/1989
TQ6269	TQ625691	3.7 (3.6 - 3.8)	Bat	Flying Bat	2	Sight & Bat Detector	18/09/1996
TQ6269	TQ626692	3.7 (3.7 - 3.8)	Leisler's Bat	Hibernating Bat	1	Examined in Hand	21/01/2001
TQ6361	TQ632618	4.2 (4.2 - 4.3)	Pipistrelle Bat (45kHz)	Flying Bat	10	Sight & Bat Detector	12/06/2011
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Bat	Flying Bat	10	Sight & Bat Detector	03/06/1993
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Bat	Flying Bat	11	Sight & Bat Detector	23/07/1994
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Bat	Flying Bat	10	Sight & Bat Detector	14/07/1995
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Long-Eared Bat Brown	Flying Bat	1	Sight & Bat Detector	03/06/1993
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Noctule Bat	Flying Bat	1	Sight & Bat Detector	03/06/1993
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Noctule Bat	Flying Bat	2	Sight & Bat Detector	23/07/1994

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Pipistrelle Bat (55kHz)	Flying Bat	10	Sight & Bat Detector	23/07/1994
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Pipistrelle Bat (55kHz)	Flying Bat	10	Sight & Bat Detector	05/07/1996
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Pipistrelle Bat (55kHz)	Flying Bat	6	Sight & Bat Detector	05/07/1997
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Serotine Bat	Flying Bat	1	Sight & Bat Detector	03/06/1993
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Serotine Bat	Flying Bat	3	Sight & Bat Detector	23/07/1994
TQ6361	TQ633611	4.9 (4.8 - 5.0)	Serotine Bat	Flying Bat	2	Sight & Bat Detector	14/07/1995
TQ6361	TQ637613	4.6 (4.6 - 4.7)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	23/07/2009
TQ6361	TQ637614	4.5 (4.5 - 4.6)	Pipistrelle Bat (55kHz)	Flying Bat	1	Bat Detector	23/07/2009
TQ6361	TQ637615	4.4 (4.4 - 4.5)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	02/08/2016
TQ6361	TQ637617	4.2 (4.2 - 4.3)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	16/07/1990
TQ6361	TQ638617	4.2 (4.2 - 4.3)	Bat	Hibernating Bat	1	Close Observation	08/12/1990
TQ6362	TQ63066207	4.1 (4.1 - 4.1)	Long-Eared species	Flying Bat	N/A	Bat Detector Only	26/06/2017
TQ6362	TQ63066207	4.1 (4.1 - 4.1)	Pipistrelle Bat (45kHz)	Flying Bat	N/A	Bat Detector Only	13/06/2017
TQ6362	TQ63066207	4.1 (4.1 - 4.1)	Pipistrelle Bat (45kHz)	Flying Bat	N/A	Bat Detector Only	26/06/2017
TQ6362	TQ63066207	4.1 (4.1 - 4.1)	Pipistrelle Bat (45kHz)	Flying Bat	N/A	Bat Detector Only	01/08/2017
TQ6362	TQ63066207	4.1 (4.1 - 4.1)	Pipistrelle Bat (55kHz)	Flying Bat	N/A	Bat Detector Only	26/06/2017
TQ6362	TQ63066207	4.1 (4.1 - 4.1)	Pipistrelle Bat (55kHz)	Flying Bat	N/A	Bat Detector Only	01/08/2017
TQ6362	TQ631622	3.9 (3.8 - 3.9)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	30/01/2017
TQ6362	TQ634623	3.7 (3.6 - 3.8)	Long-Eared Bat Brown	Grounded Bat	1	Examined In Hand	17/09/2007
TQ6362	TQ634623	3.7 (3.6 - 3.8)	Serotine Bat	Roost (unknown type)	N/A	Droppings Only	17/09/2007
TQ6362	TQ636625	3.5 (3.4 - 3.5)	Bat	Roost (unknown type)	N/A	Sight Record Only	26/06/1992
TQ6362	TQ637620	3.9 (3.9 - 4.0)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	1	Bat Detector	17/08/2009
TQ6362	TQ637628	3.1 (3.1 - 3.2)	Pipistrelle Bat (55kHz)	Flying Bat Feeding	1	Bat Detector	17/08/2009
TQ6362	TQ637629	3.0 (3.0 - 3.1)	Pipistrelle Bat (55kHz)	Flying Bat Feeding	1	Sight & Bat Detector	20/08/2009
TQ6362	TQ638629	3.0 (3.0 - 3.1)	Bat	Roost (unknown type)	2	Sight Record Only	31/10/1987
TQ6363	TQ637630	2.9 (2.9 - 3.0)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Droppings Only	09/04/2014
TQ6363	TQ637633	2.7 (2.6 - 2.7)	Long-Eared Bat Brown	Hibernating Bat	2	Close Observation	27/03/1993
TQ6363	TQ638630	2.9 (2.9 - 3.0)	Bat	Roost (unknown type)	1	Sight Record Only	17/06/1988
TQ6364	TQ63946409	1.9 (1.9 - 1.9)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	1	Sight & Bat Detector	05/06/2010
TQ6364	TQ639641	1.8 (1.8 - 1.9)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	1	Sight & Bat Detector	05/06/2010

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6366	TQ6378466 173	0.6 (0.6 - 0.6)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6369	TQ632699	4.2 (4.1 - 4.2)	Long-Eared Bat Brown	Roost (unknown type)	13	Close Observation	03/09/2002
TQ6369	TQ635692	3.4 (3.4 - 3.5)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	27	Sight & Bat Detector	06/05/1997
TQ6369	TQ637697	3.9 (3.8 - 3.9)	Long-Eared Bat Brown	Grounded Bat	1	Examined in Hand	30/05/1990
TQ6370	TQ634703	4.5 (4.4 - 4.6)	Pipistrellus (45 or 55kHz) species	Flying Bat	2	Sight Record Only	04/10/2015
TQ6370	TQ639700	4.1 (4.1 - 4.2)	Bat	Maternity Roost	32	Sight Record Only	28/02/2005
TQ6370	TQ639700	4.1 (4.1 - 4.2)	Vespertilionidae	Unknown	32	Sight Record Only	20/02/2005
TQ6461	TQ641610	4.9 (4.8 - 4.9)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	23/05/2011
TQ6461	TQ6430615 6	4.4 (4.4 - 4.4)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	23/07/2014
TQ6461	TQ6461	4.4 (3.9 - 5.0)	Pipistrellus species	Maternity Roost	37	Sight Record Only	23/06/2009
TQ6462	TQ641628	3.1 (3.0 - 3.1)	Bat	Flying Bat	2	Sight Record Only	07/07/2014
TQ6462	TQ641628	3.1 (3.0 - 3.1)	Long-Eared Bat Brown	Grounded Bat	1	Examined In Hand	28/12/2017
TQ6462	TQ647620	3.9 (3.8 - 4.0)	Pipistrelle Bat (55kHz)	Grounded Bat	1	Examined In Hand	23/05/2020
TQ6463	TQ641631	2.8 (2.7 - 2.8)	Pipistrellus (45 or 55kHz) species	Maternity Roost	1	Examined in Hand	30/07/1996
TQ6463	TQ641633	2.6 (2.5 - 2.6)	Pipistrellus (45 or 55kHz) species	Maternity Roost	N/A	Droppings Only	07/03/2006
TQ6464	TQ6404641 3	1.8 (1.8 - 1.8)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	1	Sight & Bat Detector	05/06/2010
TQ6465	TQ644658	0.1 (0.1 - 0.2)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined In Hand	07/02/2011
TQ6465	TQ645655	0.4 (0.4 - 0.5)	Pipistrelle Bat (45kHz)	Hibernating Bat	2	Examined In Hand	20/12/2004
TQ6465	TQ645658	0.2 (0.1 - 0.3)	Bat	Roost (unknown type)	1	Examined in Hand	28/04/1987
TQ6465	TQ645658	0.2 (0.1 - 0.3)	Long-Eared Bat Brown	Grounded Bat	1	Examined in Hand	19/05/1991
TQ6465	TQ646656	0.4 (0.3 - 0.5)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	50	Close Observation	27/06/1987
TQ6465	TQ646656	0.4 (0.3 - 0.5)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	2	Sight Record Only	17/05/1992
TQ6465	TQ648657	0.5 (0.5 - 0.6)	Pipistrellus (45 or 55kHz) species	Grounded Bat	2	Examined in Hand	17/06/1986
TQ6466	TQ644660	0.1 (0.1 - 0.2)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	09/10/2003
TQ6466	TQ644660	0.1 (0.1 - 0.2)	Pipistrellus (45 or 55kHz) species	Grounded Bat	2	Examined in Hand	28/07/1984
TQ6466	TQ644661	0.2 (0.2 - 0.3)	Long-Eared Bat Brown	Roost (unknown type)	1	Examined in Hand	14/09/1991
TQ6467	TQ643672	1.3 (1.3 - 1.4)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	01/09/1989
TQ6467	TQ643673	1.4 (1.4 - 1.5)	Bat	Flying Bat	6	Sight Record Only	28/11/1994
TQ6467	TQ644678	1.9 (1.9 - 2.0)	Pipistrelle Bat (55kHz)	Grounded Bat	1	Examined In Hand	10/08/2017
TQ6467	TQ645675	1.6 (1.6 - 1.7)	Pipistrelle Bat (45kHz)	Roost (unknown type)	1	Examined In Hand	24/06/2006

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6468	TQ641683	2.4 (2.4 - 2.5)	Long-Eared Bat Brown	Droppings Only	1	Droppings Only	23/06/2011
TQ6468	TQ641683	2.4 (2.4 - 2.5)	Pipistrelle Bat (45kHz)	Flying Bat	5	Sight & Bat Detector	23/06/2011
TQ6468	TQ6429268 326	2.4 (2.4 - 2.4)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6468	TQ6435068 273	2.3 (2.3 - 2.3)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6468	TQ6449068 217	2.3 (2.3 - 2.3)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6468	TQ646687	2.8 (2.8 - 2.9)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	14/01/2017
TQ6468	TQ646687	2.8 (2.8 - 2.9)	Natterer's Bat	Hibernating Bat	1	Close Observation	28/12/2009
TQ6468	TQ646687	2.8 (2.8 - 2.9)	Whiskered / Brandt's / Alcahoo Bat	Hibernating Bat	1	Close Observation	23/01/2016
TQ6468	TQ646687	2.8 (2.8 - 2.9)	Whiskered / Brandt's / Alcahoo Bat	Hibernating Bat	1	Close Observation	20/02/2016
TQ6468	TQ646687	2.8 (2.8 - 2.9)	Whiskered / Brandt's / Alcahoo Bat	Hibernating Bat	1	Close Observation	14/01/2018
TQ6468	TQ647684	2.5 (2.5 - 2.6)	Long-Eared Bat Brown	Hibernating Bat	3	Examined in Hand	06/11/1998
TQ6468	TQ647686	2.7 (2.7 - 2.8)	Natterer's Bat	Hibernating Bat	1	Close Observation	28/12/2009
TQ6469	TQ640697	3.8 (3.8 - 3.9)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	05/07/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Bat	Hibernating Bat	1	Close Observation	15/12/1996
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Bat	Hibernating Bat	2	Close Observation	18/12/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	02/02/1989
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	18/11/1989
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	01/01/1991
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	2	Close Observation	19/02/1992
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	3	Close Observation	01/01/1993
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	4	Close Observation	14/02/1993
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	21/02/1998
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	2	Close Observation	20/12/1998
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	3	Close Observation	12/01/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	4	Close Observation	14/02/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	18/12/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	16/01/2000
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Daubenton's Bat	Hibernating Bat	1	Close Observation	20/02/2000

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	02/02/1989
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	01/01/1991
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	01/01/1993
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	11/02/1996
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	2	Close Observation	15/12/1996
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	3	Close Observation	26/01/1997
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	14/12/1997
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	17/01/1998
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	3	Close Observation	20/12/1998
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	2	Close Observation	12/01/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	2	Close Observation	18/12/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	16/01/2000
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	1	Close Observation	02/02/1989
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	1	Close Observation	26/02/1989
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	3	Close Observation	11/02/1996
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	2	Close Observation	15/12/1996
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	2	Close Observation	26/01/1997
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	2	Close Observation	21/02/1998
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	3	Close Observation	20/12/1998
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	1	Close Observation	12/01/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Natterer's Bat	Hibernating Bat	1	Close Observation	16/01/2000
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	05/02/1995
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	15/12/1996
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	26/01/1997
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	12/01/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	14/02/1999
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	16/01/2000
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered / Brandt's Bat	Hibernating Bat	3	Close Observation	20/02/2000
TQ6561	TQ658617	4.4 (4.4 - 4.5)	Whiskered Bat	Hibernating Bat	1	Close Observation	18/11/1989
TQ6563	TQ651632	2.8 (2.7 - 2.9)	Pipistrellus (45 or 55kHz) species	Maternity Roost	12	Sight Record Only	10/09/2015

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6564	TQ651643	1.8 (1.7 - 1.8)	Bat	Roost (unknown type)	5	Sight Record Only	30/05/1992
TQ6564	TQ659640	2.5 (2.4 - 2.5)	Long-Eared Bat Brown	Roost (unknown type)	1	Examined in Hand	08/10/1987
TQ6567	TQ650671	1.4 (1.3 - 1.5)	Leisler's Bat	Flying Bat Feeding	1	Sound Analysis	22/08/2019
TQ6567	TQ650671	1.4 (1.3 - 1.5)	Long-Eared Bat Brown	Flying Bat	1	Sound Analysis	01/08/2019
TQ6567	TQ650671	1.4 (1.3 - 1.5)	Noctule Bat	Flying Bat	1	Sound Analysis	01/08/2019
TQ6567	TQ650671	1.4 (1.3 - 1.5)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	6	Sound Analysis	01/08/2019
TQ6567	TQ650671	1.4 (1.3 - 1.5)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	5	Sound Analysis	22/08/2019
TQ6567	TQ650671	1.4 (1.3 - 1.5)	Serotine Bat	Flying Bat	1	Sound Analysis	01/08/2019
TQ6567	TQ6558367481	2.0 (2.0 - 2.0)	Pipistrellus species	Flying Bat	1	Sight Record Only	02/09/2011
TQ6567	TQ657677	2.3 (2.2 - 2.4)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	12/04/2011
TQ6567	TQ657678	2.4 (2.3 - 2.4)	Bat	Flying Bat	3	Sight Record Only	12/05/2014
TQ6569	TQ6579269163	3.5 (3.5 - 3.5)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6569	TQ6585469162	3.6 (3.6 - 3.6)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6570	TQ65137005	4.2 (4.2 - 4.2)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	14/10/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Bat	Hibernating Bat	1	Close Observation	26/02/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Bat	Hibernating Bat	1	Close Observation	24/01/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Bat	Hibernating Bat	2	Close Observation	04/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Bat	Hibernating Bat	1	Close Observation	09/02/2019
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Bat	Hibernating Bat	1	Close Observation	25/01/2020
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	6	Close Observation	30/01/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	8	Close Observation	27/02/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	5	Close Observation	22/01/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	4	Close Observation	26/02/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	21/01/2007
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	25/02/2007
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	3	Close Observation	27/01/2008
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	7	Close Observation	24/02/2008
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	24/01/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	1	Close Observation	21/02/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	1	Close Observation	05/03/2011

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	1	Close Observation	04/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	4	Close Observation	26/01/2013
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	4	Close Observation	25/01/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	1	Close Observation	22/02/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	5	Close Observation	24/01/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	4	Close Observation	21/02/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	3	Close Observation	23/01/2016
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	4	Close Observation	20/02/2016
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	14/01/2017
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	1	Close Observation	11/02/2017
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	3	Close Observation	14/01/2018
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	25/02/2018
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	1	Close Observation	09/02/2019
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	25/01/2020
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Daubenton's Bat	Hibernating Bat	2	Close Observation	22/02/2020
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	24/01/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Long-Eared Bat Brown	Hibernating Bat	1	Close Observation	04/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Long-Eared Bat Brown	Hibernating Bat	2	Close Observation	26/01/2013
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Myotis species	Hibernating Bat	1	Close Observation	30/01/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Myotis species	Hibernating Bat	1	Close Observation	22/01/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Myotis species	Hibernating Bat	3	Close Observation	29/01/2011
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Myotis species	Hibernating Bat	1	Close Observation	25/01/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Myotis species	Hibernating Bat	1	Close Observation	21/02/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	30/01/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	3	Close Observation	27/02/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	22/01/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	26/02/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	21/01/2007
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	27/01/2008
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	24/02/2008

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	5	Close Observation	24/01/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	21/02/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	3	Close Observation	23/01/2010
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	5	Close Observation	13/02/2010
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	6	Close Observation	29/01/2011
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	3	Close Observation	05/03/2011
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	04/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	25/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	4	Close Observation	26/01/2013
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	7	Close Observation	23/02/2013
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	25/01/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	7	Close Observation	24/01/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	5	Close Observation	21/02/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	3	Close Observation	23/01/2016
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	3	Close Observation	20/02/2016
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	3	Close Observation	14/01/2017
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	4	Close Observation	11/02/2017
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	14/01/2018
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	25/02/2018
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	4	Close Observation	09/02/2019
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	1	Close Observation	25/01/2020
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Natterer's Bat	Hibernating Bat	2	Close Observation	22/02/2020
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	30/01/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	2	Close Observation	27/02/2005
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	3	Close Observation	22/01/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	3	Close Observation	26/02/2006
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	6	Close Observation	21/01/2007
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	6	Close Observation	25/02/2007
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	9	Close Observation	27/01/2008
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	12	Close Observation	24/02/2008

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	7	Close Observation	24/01/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	9	Close Observation	21/02/2009
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	23/01/2010
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's Bat	Hibernating Bat	1	Close Observation	13/02/2010
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	3	Close Observation	29/01/2011
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	2	Close Observation	05/03/2011
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	4	Close Observation	04/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	3	Close Observation	25/02/2012
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	1	Close Observation	26/01/2013
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	2	Close Observation	23/02/2013
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	1	Close Observation	25/01/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	1	Close Observation	22/02/2014
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	2	Close Observation	24/01/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	3	Close Observation	21/02/2015
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	4	Close Observation	23/01/2016
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	6	Close Observation	20/02/2016
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	4	Close Observation	25/02/2018
TQ6661	TQ664619	4.5 (4.4 - 4.6)	Whiskered / Brandt's / Alcahoh Bat	Hibernating Bat	1	Close Observation	09/02/2019
TQ6664	TQ6620964 603	2.3 (2.3 - 2.3)	Pipistrellus species	Flying Bat	1	Bat Detector	01/08/2006
TQ6664	TQ6635364 289	2.6 (2.6 - 2.6)	Pipistrellus species	Flying Bat	1	Bat Detector	01/08/2006
TQ6664	TQ6641064 154	2.7 (2.7 - 2.7)	Pipistrellus Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6665	TQ6605865 093	1.9 (1.9 - 1.9)	Pipistrellus Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6665	TQ6606265 161	1.9 (1.9 - 1.9)	Pipistrellus Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6665	TQ6606565122	1.9 (1.9 - 1.9)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6666	TQ6615166148	1.8 (1.8 - 1.8)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6667	TQ665671	2.5 (2.4 - 2.6)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined in Hand	23/06/2002
TQ6667	TQ667672	2.7 (2.7 - 2.8)	Pipistrellus (45 or 55kHz) species	Grounded Bat	1	Examined in Hand	05/07/1990
TQ6668	TQ661689	3.5 (3.4 - 3.6)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	07/09/2007
TQ6668	TQ665687	3.6 (3.5 - 3.6)	Long-Eared Bat Brown	Flying Bat	1	Sight & Bat Detector	23/05/2011
TQ6668	TQ665687	3.6 (3.5 - 3.6)	Pipistrelle Bat (45kHz)	Flying Bat	1	Sight & Bat Detector	18/09/2002
TQ6668	TQ665687	3.6 (3.5 - 3.6)	Pipistrelle Bat (45kHz)	Flying Bat	3	Sight & Bat Detector	23/05/2011
TQ6668	TQ665687	3.6 (3.5 - 3.6)	Pipistrelle Bat (45kHz)	Maternity Roost	17	Sight & Bat Detector	31/08/2011
TQ6668	TQ665687	3.6 (3.5 - 3.6)	Pipistrelle Bat (55kHz)	Flying Bat	6	Sight & Bat Detector	31/08/2011
TQ6668	TQ665687	3.6 (3.5 - 3.6)	Serotine Bat	Flying Bat	1	Sight & Bat Detector	18/09/2002
TQ6668	TQ666685	3.5 (3.4 - 3.5)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	5	Sight & Bat Detector	30/06/2009
TQ6668	TQ667686	3.6 (3.5 - 3.7)	Pipistrelle Bat (45kHz)	Flying Bat	1	Sight Record and Bat Detector	13/06/2017
TQ6668	TQ668686	3.7 (3.6 - 3.8)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined In Hand	25/07/2017
TQ6668	TQ668686	3.7 (3.6 - 3.8)	Whiskered Bat	Roost (unknown type)	1	Examined in Hand	17/04/1995
TQ6668	TQ669683	3.5 (3.5 - 3.6)	Long-Eared species	Flying Bat	N/A	Bat Detector Only	25/07/2016
TQ6668	TQ669683	3.5 (3.5 - 3.6)	Myotis species	Flying Bat	N/A	Bat Detector Only	25/07/2016
TQ6668	TQ669683	3.5 (3.5 - 3.6)	Noctule Bat	Flying Bat	N/A	Bat Detector Only	25/07/2016
TQ6668	TQ669683	3.5 (3.5 - 3.6)	Pipistrelle Bat (45kHz)	Flying Bat	N/A	Bat Detector Only	25/07/2016
TQ6668	TQ669683	3.5 (3.5 - 3.6)	Pipistrelle Bat (55kHz)	Flying Bat	N/A	Bat Detector Only	25/07/2016
TQ6668	TQ669683	3.5 (3.5 - 3.6)	Serotine Bat	Flying Bat	N/A	Bat Detector Only	25/07/2016
TQ6670	TQ6670	5.0 (4.4 - 5.7)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined in Hand	18/03/2005
TQ6670	TQ6670	5.0 (4.4 - 5.7)	Pipistrelle Bat (45kHz)	Grounded Bat	1	Examined in Hand	08/07/2005
TQ6763	TQ671633	3.8 (3.7 - 3.9)	Bat	Roost (unknown type)	N/A	Droppings Only	10/01/1987
TQ6763	TQ671633	3.8 (3.7 - 3.9)	Bat	Roost (unknown type)	20	Sight & Bat Detector	22/07/1990
TQ6764	TQ670640	3.3 (3.2 - 3.4)	Bat	Roost (unknown type)	1	Examined in Hand	06/12/1999
TQ6764	TQ674647	3.3 (3.2 - 3.4)	Bat	Roost (unknown type)	N/A	Droppings Only	26/03/1991
TQ6766	TQ672667	3.0 (2.9 - 3.1)	Long-Eared Bat Brown	Roost (unknown type)	N/A	Droppings Only	08/01/2007
TQ6766	TQ6785366699	3.6 (3.6 - 3.6)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6766	TQ6792066999	3.7 (3.7 - 3.7)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6767	TQ670670	2.9 (2.8 - 3.0)	Long-Eared species	Roost (unknown type)	N/A	Droppings Only	13/05/2006
TQ6768	TQ672683	3.8 (3.7 - 3.8)	Leisler's Bat	Maternity Roost	1	Sight & Bat Detector	14/05/1994
TQ6768	TQ672683	3.8 (3.7 - 3.8)	Leisler's Bat	Maternity Roost	44	Sight & Bat Detector	15/05/1994
TQ6768	TQ672683	3.8 (3.7 - 3.8)	Leisler's Bat	Maternity Roost	42	Sight & Bat Detector	16/05/1994
TQ6768	TQ674684	4.0 (3.9 - 4.1)	Long-Eared Bat Brown	Maternity Roost	4	Close Observation	27/06/1994
TQ6768	TQ674684	4.0 (3.9 - 4.1)	Long-Eared Bat Brown	Maternity Roost	3	Unknown	06/11/1998
TQ6768	TQ674684	4.0 (3.9 - 4.1)	Long-Eared Bat Brown	Maternity Roost	4	Unknown	08/11/1998
TQ6768	TQ674684	4.0 (3.9 - 4.1)	Long-Eared Bat Brown	Maternity Roost	6	Unknown	10/11/1998
TQ6768	TQ674684	4.0 (3.9 - 4.1)	Long-Eared Bat Brown	Maternity Roost	1	Unknown	20/11/1998
TQ6768	TQ6757268 714	4.2 (4.2 - 4.2)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6768	TQ6757368 719	4.3 (4.2 - 4.3)	Leisler's Bat	Flying Bat	1	Bat Detector	01/08/2006
TQ6769	TQ670695	4.5 (4.4 - 4.6)	Leisler's Bat	Flying Bat	20	Sight & Bat Detector	24/07/1993
TQ6769	TQ672692	4.4 (4.3 - 4.5)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	2	Sight & Bat Detector	04/06/2011
TQ6769	TQ672692	4.4 (4.3 - 4.5)	Pipistrelle Bat (55kHz)	Flying Bat Feeding	2	Sight & Bat Detector	04/06/2011
TQ6769	TQ672696	4.7 (4.6 - 4.8)	Pipistrellus (45 or 55kHz) species	Roost (unknown type)	1	Examined in Hand	01/05/1989
TQ6769	TQ673690	4.3 (4.2 - 4.4)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	2	Sight & Bat Detector	04/06/2011
TQ6769	TQ673690	4.3 (4.2 - 4.4)	Pipistrelle Bat (55kHz)	Flying Bat Feeding	2	Sight & Bat Detector	04/06/2011
TQ6769	TQ673694	4.6 (4.5 - 4.7)	Leisler's Bat	Flying Bat	8	Sight & Bat Detector	23/07/1993
TQ6769	TQ674690	4.4 (4.3 - 4.5)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	04/06/2011
TQ6769	TQ674691	4.5 (4.4 - 4.5)	Serotine Bat	Flying Bat Feeding	1	Bat Detector	07/07/2006
TQ6769	TQ675693	4.7 (4.6 - 4.7)	Bat	Flying Bat	10	Sight & Bat Detector	22/07/1993
TQ6769	TQ675693	4.7 (4.6 - 4.7)	Leisler's Bat	Flying Bat	2	Sight & Bat Detector	22/07/1993
TQ6769	TQ675693	4.7 (4.6 - 4.7)	Long-Eared Bat Brown	Flying Bat	1	Sight & Bat Detector	22/07/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	5	Close Observation	07/05/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	32	Close Observation	08/05/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	35	Examined in Hand	10/05/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	19	Examined in Hand	13/05/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	5	Examined in Hand	19/05/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	23	Examined in Hand	12/07/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	41	Examined in Hand	13/07/1990

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	40	Examined in Hand	14/07/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	35	Examined in Hand	15/07/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	N/A	Examined in Hand	16/07/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	30	Examined in Hand	01/08/1990
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	15	Examined in Hand	13/05/1991
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	16	Examined in Hand	14/05/1991
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	39	Examined in Hand	21/05/1991
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	42	Examined in Hand	22/05/1991
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	39	Examined in Hand	25/05/1991
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	7	Examined in Hand	20/04/1992
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	11	Examined in Hand	29/04/1992
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	16	Examined in Hand	03/05/1992
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	19	Examined in Hand	05/05/1992
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	10	Examined in Hand	13/05/1992
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	6	Examined in Hand	13/04/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	9	Examined in Hand	21/04/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	21	Examined in Hand	27/04/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	30	Examined in Hand	30/04/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	16	Examined in Hand	08/05/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	8	Examined in Hand	10/05/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	35	Examined in Hand	18/05/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	47	Examined in Hand	22/05/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	16	Examined in Hand	21/07/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	36	Examined in Hand	22/07/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	57	Examined in Hand	23/07/1993
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	11	Examined in Hand	11/05/1994
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	33	Sight Record Only	30/05/1994
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	45	Sight Record Only	31/05/1994
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	35	Sight & Bat Detector	01/06/1994
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	48	Sight & Bat Detector	02/06/1994

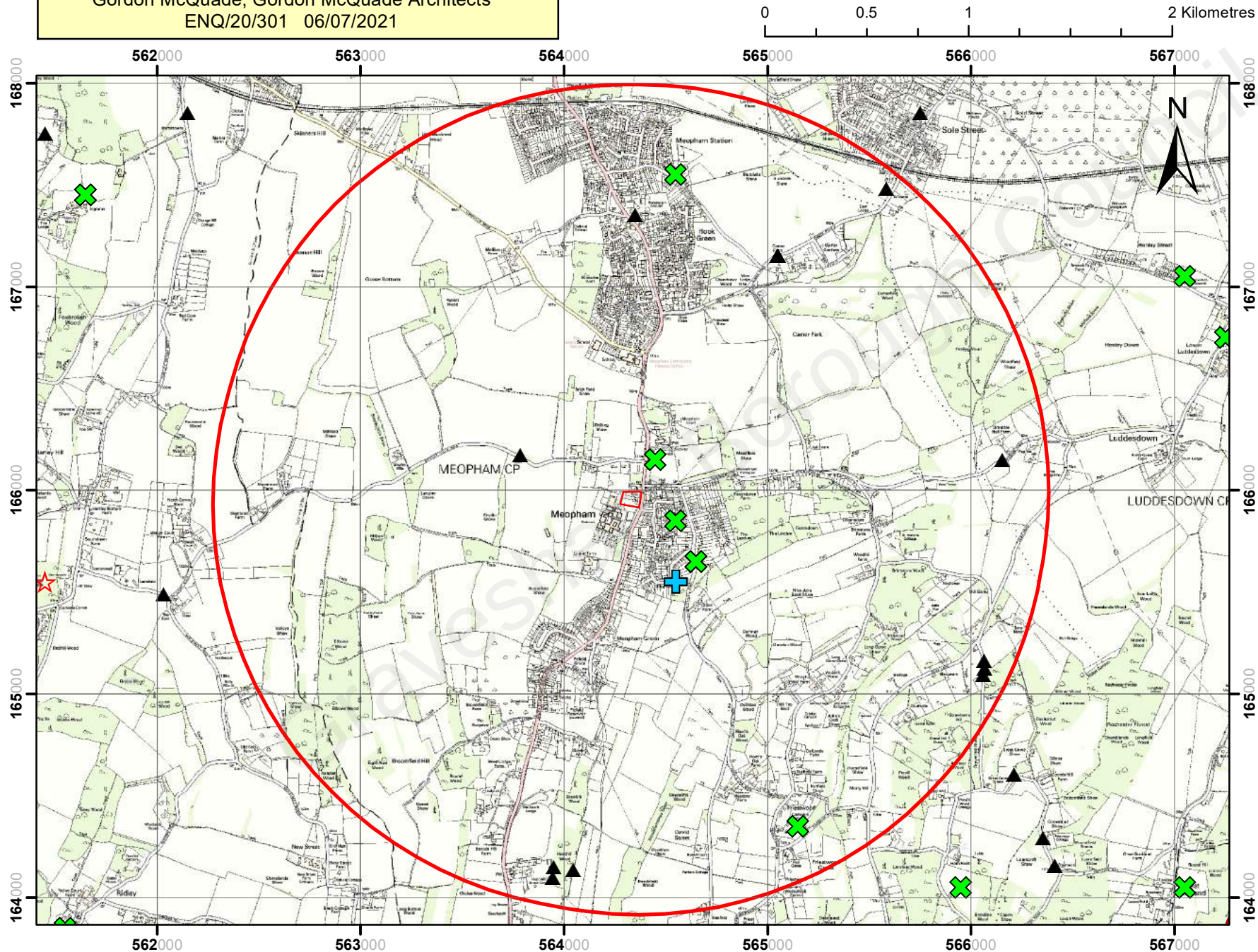
Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	N/A	Examined in Hand	23/06/1994
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	5	Sight Record Only	07/04/1995
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	12	Sight Record Only	07/04/1995
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	36	Sight Record Only	28/07/1995
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	10	Sight & Bat Detector	21/04/1996
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	N/A	Sight & Bat Detector	20/07/1999
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	45	Sight & Bat Detector	06/08/2000
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Leisler's Bat	Maternity Roost	56	Sight & Bat Detector	07/08/2000
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Noctule Bat	Maternity Roost	1	Sight & Bat Detector	07/08/2000
TQ6769	TQ675694	4.7 (4.7 - 4.8)	Pipistrelle Bat (55kHz)	Maternity Roost	2	Sight & Bat Detector	07/08/2000
TQ6769	TQ675695	4.8 (4.7 - 4.9)	Bat	Maternity Roost	6	Sight Record Only	14/09/1987
TQ6769	TQ675695	4.8 (4.7 - 4.9)	Leisler's Bat	Maternity Roost	1	Examined in Hand	01/08/1988
TQ6769	TQ675695	4.8 (4.7 - 4.9)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	3	Sight & Bat Detector	11/06/2005
TQ6769	TQ675695	4.8 (4.7 - 4.9)	Pipistrelle Bat (55kHz)	Flying Bat Feeding	3	Sight & Bat Detector	11/06/2005
TQ6769	TQ676693	4.7 (4.7 - 4.8)	Long-Eared Bat Brown	Unknown	1	Examined In Hand	18/07/2009
TQ6769	TQ676693	4.7 (4.7 - 4.8)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	18/07/2009
TQ6769	TQ676694	4.8 (4.7 - 4.9)	Leisler's Bat	Flying Bat	1	Sight & Bat Detector	22/07/1993
TQ6769	TQ677694	4.9 (4.8 - 5.0)	Long-Eared Bat Brown	Unknown	1	Examined In Hand	18/07/2009
TQ6769	TQ677694	4.9 (4.8 - 5.0)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	18/07/2009
TQ6769	TQ6784869 440	4.9 (4.9 - 4.9)	Pipistrelle Bat (45kHz)	Flying Bat	1	Bat Detector	01/08/2006
TQ6866	TQ684669	4.2 (4.2 - 4.3)	Bat	Flying Bat	6	Sight Record Only	03/07/1985
TQ6868	TQ681683	4.5 (4.4 - 4.6)	Myotis species	Flying Bat	1	Sight & Bat Detector	06/07/2005
TQ6868	TQ681683	4.5 (4.4 - 4.6)	Noctule Bat	Flying Bat	1	Sight & Bat Detector	06/07/2005
TQ6868	TQ681683	4.5 (4.4 - 4.6)	Pipistrelle Bat (45kHz)	Flying Bat	2	Sight & Bat Detector	06/07/2005
TQ6868	TQ683684	4.7 (4.6 - 4.8)	Bat	Flying Bat	24	Sight & Bat Detector	27/07/1993
TQ6868	TQ6843268 819	5.0 (5.0 - 5.0)	Long-Eared Bat Brown	Roost (unknown type)	3	Sight Record and Bat Detector	07/07/2017
TQ6868	TQ6843268 819	5.0 (5.0 - 5.0)	Long-Eared Bat Brown	Roost (unknown type)	1	Sight Record and Bat Detector	22/08/2017
TQ6868	TQ6843268 819	5.0 (5.0 - 5.0)	Pipistrelle Bat (45kHz)	Roost (unknown type)	4	Sight Record and Bat Detector	07/07/2017
TQ6868	TQ6843268 819	5.0 (5.0 - 5.0)	Pipistrelle Bat (45kHz)	Roost (unknown type)	3	Sight Record and Bat Detector	22/08/2017
TQ6868	TQ684688	5.0 (5.0 - 5.1)	Myotis species	Flying Bat	2	Sound Analysis	04/06/2019

Grid Square	Grid Reference	Distance (km)	Common Name	Record Type	Count	ID Method	Date
TQ6868	TQ684688	5.0 (5.0 - 5.1)	Pipistrelle Bat (45kHz)	Flying Bat Feeding	10	Sound Analysis	04/06/2019
TQ6868	TQ684688	5.0 (5.0 - 5.1)	Pipistrelle Bat (55kHz)	Flying Bat	3	Sound Analysis	04/06/2019
TQ6964	TQ6904644 2	4.9 (4.9 - 4.9)	Pipistrellus species	Droppings Only	N/A	Droppings Only	02/06/2014
TQ6964	TQ6904644 2	4.9 (4.9 - 4.9)	Serotine Bat	Droppings Only	N/A	Droppings Only	02/06/2014

Kent & Medway Biological Records Centre

Known Bat Roost Locations at
Holly Cottage Development
Gordon McQuade, Gordon McQuade Architects
ENQ/20/301 06/07/2021

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KEY

- Study Area
- Site Boundary

Roost Type

- ★ Maternity Roost
- + Hibernating Bat
- ✕ Roost (unknown type)
- ▲ Flying Bat

This map should be used in conjunction with the accompanying bat records report.

To convert from the eastings and northings grid shown to a standard OS grid reference, use the first digit from the easting to determine the 10km square: a **5** corresponds to **TQ** and a **6** to **TR**. The second and third digits from the easting and northing give the rest of the grid reference for the 1km square.

For example, coordinates (602000,158000) tell you the grid square is **TR0258**.

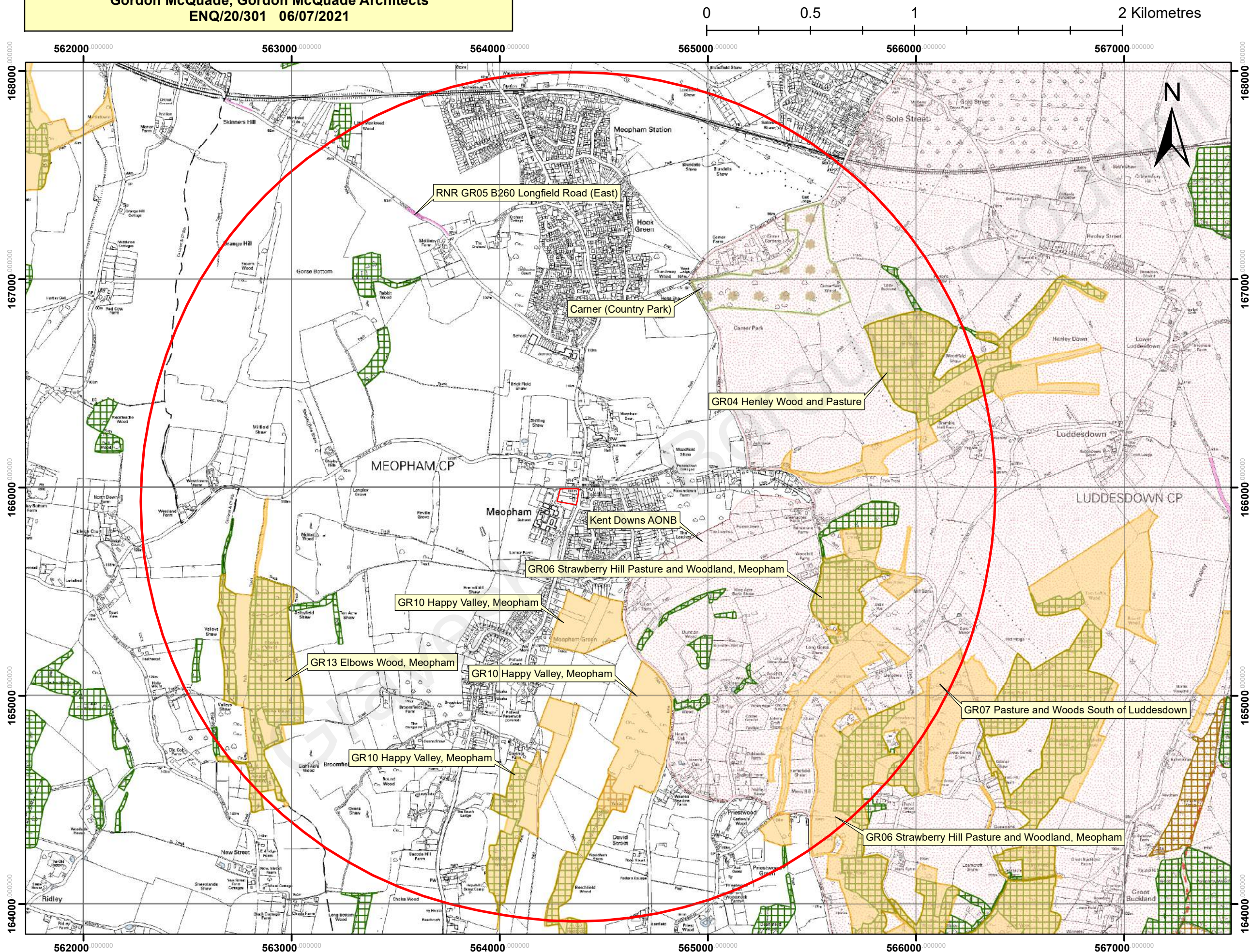


Kent & Medway Biological Records Centre

Map showing the statutory and non-statutory designated sites,
ancient woodland and water features at
Holly Cottage Development
Gordon McQuade, Gordon McQuade Architects
ENQ/20/301 06/07/2021

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Kent & Medway Biological Records Centre would like to acknowledge, where appropriate: Natural England for Ramsar, SAC, SPA, NNR, SSSI, AONB, Heritage Coast and Ancient Woodland data; Kent Wildlife Trust for LWS, RNR and Reserve data; GeoConservation Kent for RIGS data; The National Trust, The RSPB and The Woodland Trust for Reserve data; Kent County Council for Kent Habitat Survey 2012 data used in this map.



KEY

 Site Boundary

 Study Area

 Local Wildlife Site

 Roadside Nature Reserve

 Country Parks

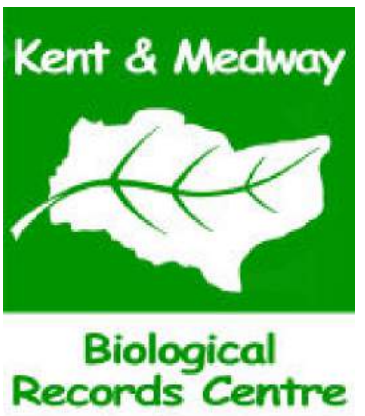
 Ancient semi-natural woodland

 Plantation on ancient woodland site

 Water Feature

 Areas of Outstanding Natural Beauty

 County Boundary



2.4 Energy/Sustainability Assessment

30th August 2021

1 Energy

All dwellings are to be designed to "Passivhaus" standards, to ensure high energy efficiency, and low energy consumption, making the dwellings highly environmentally sustainable.

Standards include

- 1 Accurate design modelling
- 2 Very high levels of insulation
- 3 Extremely high performance windows with insulated frames
- 4 Airtight building fabric
- 5 "Thermal bridge-free" construction
- 6 A mechanical ventilation system with highly efficient heat recovery

All dwellings are to be designed to "Passivhaus" standards, to ensure high energy efficiency, and low energy consumption. Solar arrays will be fitted to each south facing roof, with internal battery storage and "smart" controls to enable "grid trading" for excess energy generation. External air-source heat pumps will be fitted to generate further renewable energy, and each dwelling will also have integral mechanical ventilation system with heat recovery

All dwellings will be "future-proofed" to ensure that adequate supplies can be accommodated, as and when EV charging is required

2 Services

All necessary services are readily available in Wrotham Road, immediately adjacent to the site, and preliminary enquiries would indicate there is sufficient capacity to meet development needs. Additionally, there is an ongoing programme of providing fibre optic cables for broadband connections currently underway locally, which will make available ultrafast download speeds of up to 300mbps

3 Waste and recycling

Individual dwellings have space within each garden for space for dedicated refuse bins. Space is also provided adjacent to the Wrotham Road footpath for collection of the bins by the service provider, without their collection vehicle having to enter the site

4 Flooding

Environment Agency classification states "Your selected location is in flood zone 1, an area with a low probability of flooding" - documentation appended

5 Sustainability

"The site is located on the Wrotham Road and benefits from access to public transport (bus route) and local amenities and would be considered a sustainable location" - GBC PRE20200168 appended
Local amenities details are expanded upon in section "2.1.2 Design and Access Statement - Access"

Flood map for planning

Your reference
Holly Cottage

Location (easting/northing)
564355/165958

Created
5 Aug 2021 12:13

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

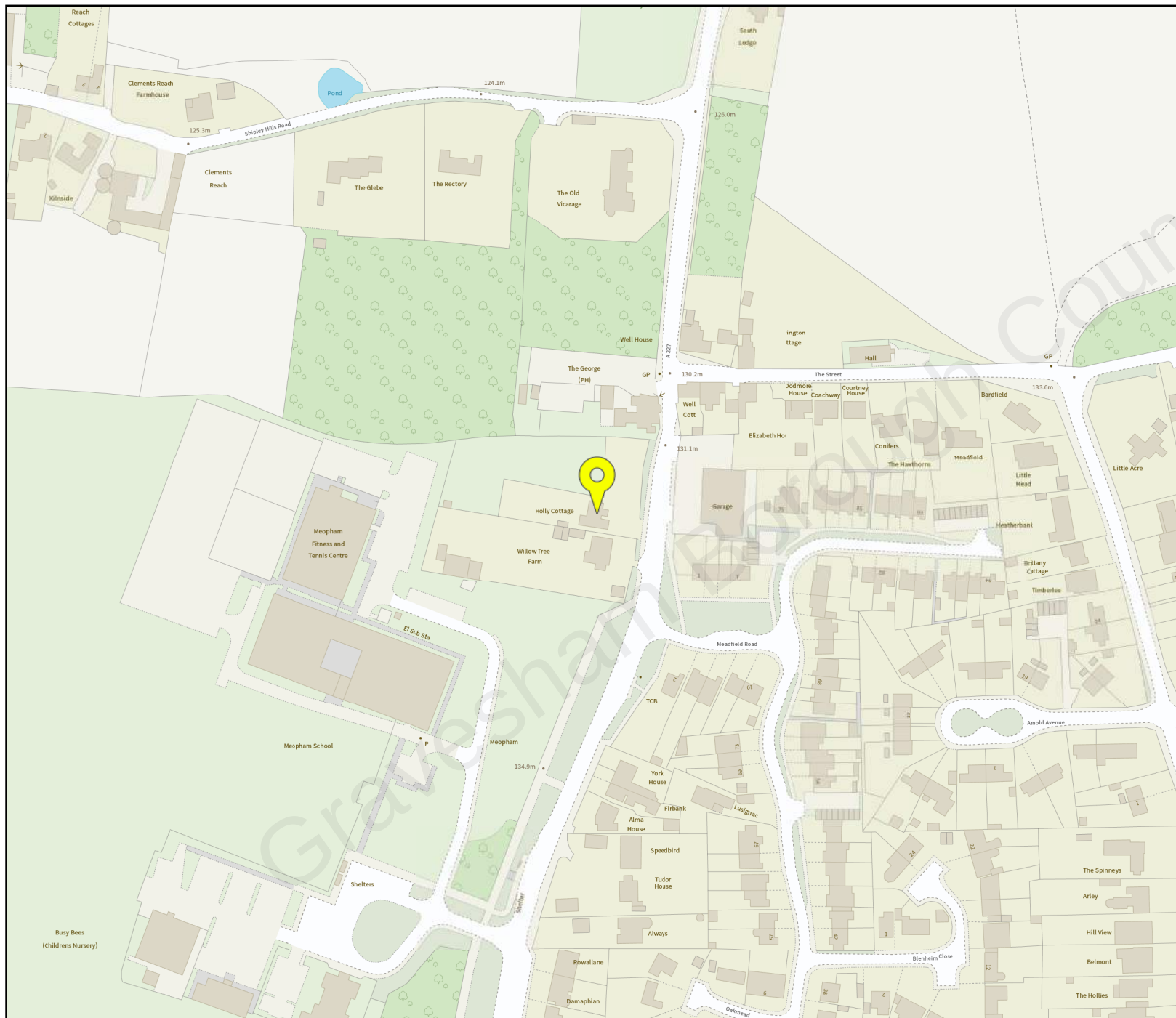
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2021 OS 100024198. <https://flood-map-for-planning.service.gov.uk/os-terms>



Flood map for planning

Your reference
Holly Cottage

Location (easting/northing)
564355/165958

Scale
1:2500

Created
5 Aug 2021 12:13

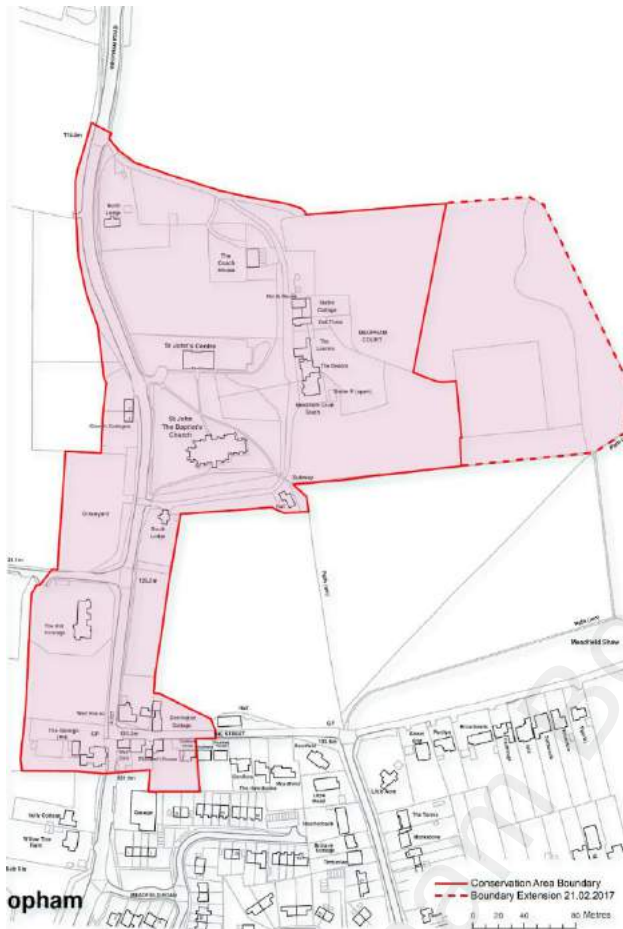
-  Selected point
-  Flood zone 3
-  Flood zone 3: areas benefitting from flood defences
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Flood storage area

0 20 40 60m

2.5 Heritage Statement

30th August 2021

1 Conservation Area Impact



The site adjoins "The Street, Meopham" Conservation Area, at its southern boundary, on Wrotham Road, with "The George Inn" (Listed Building).

To minimise the development impact on Wrotham Road, Holly Cottage is proposed to be rebuilt in a style to match the retained Willow Tree Farm, thus retaining the existing character of the street elevation to Wrotham Road. There is also an opportunity to "open-up" the vista from the south on Wrotham Road to enhance the presence of "The George Inn" - currently, it is substantially hidden by overgrown and poorly maintained planting, all of which can be easily removed, regraded, and grassed to expose the Listed Building better (subject to agreement with its owner and the required approvals)

The proposed dwellings located to the rear of the site, are similar in height and scale to "The George Inn", and as there is a substantial strip of mature tree planting to the boundary, the visual impact will be negligible

To mitigate noise from the customer car park, and the external seating area of the George Inn, an 1800mm high close boarded fence is proposed to the rear gardens of the new dwellings.

Additionally, the dwellings will have triple glazed windows, and ventilation controlled by an internal mechanical heating and ventilation system to minimise the need for opening windows

2 Green Belt Impact



The Site is located in "The Green Belt, adjacent to both "The Street" Conservation Area, and immediately adjacent to the village envelope of Meopham Green. Residential development in Shipley Hills Road over time, and the continued expansion of facilities in the adjoining "School" site, now completely encircle the site, and isolate it from the Green Belt (shown green on the adjacent plan).

"PRE20200168" states "In relation to the impact on the Greenbelt and adjoining Conservation Area, taking into consideration the leisure centre to the west and newly built school to the south, the proposal would have minimal impact". In essence, the site, currently, no longer either contributes to the "openness" of the Green Belt, nor does its development, detract from the future "openness" of the Green Belt

2.6 Landscape and visual impact assessment

30th August 2021

1 Tree Survey

A "Tree Survey" has been undertaken by a specialist Contractor, as appended

The site is bordered on three sides by substantial tree and shrub planting - it is intended to use this as a "visual barrier" to avoid "impact" by the development to its surrounding areas, and to maximise "privacy" for the proposed dwellings

2 Landscaping



Block 1 - "Heavy Duty" brindle effect block in herringbone pattern, capable of accommodating Fire Tenders and Pantechincons

Block 2 - "Light Duty" brindle effect block in herringbone pattern, capable of accommodating cars

Block 3 - "Light Duty" contrasting effect block in herringbone pattern, capable of accommodating cars

Pathway - "Light Duty" brindle effect tegula block, capable of accommodating cars

Fence - 1800mm high close boarded fence to rear of all gardens, and between dwellings, complete with private pedestrian gates

Paving slabs - To private paths, and rear garden patio areas - or specific choice by owners

Grass - To rear garden areas, and isolated areas to entrance and adjacent to entrance road. Grass verges onto pavement on Wrotham Road

Planting - Ground cover with bushes to create visual barrier along entrance road, and to block rear fence

All details to be confirmed and agreed with GBC prior to works commencing on site

3 Maintenance Proposals

An Owners' "Management Company" is to be created to be responsible for managing the "common parts" of the development i.e. the entrance road and gate, Wrotham Road verges, planting to the entrance road, surface water drainage, CCTV and communal electrics, including bollard lighting to the entrance road, and maintenance of the perimeter boundary's neighbours overhanging trees and bushes

4 Demolitions



- 1 Holly Cottage, outhouses and sheds - all to be removed (grey tone)
- 2 Willow Tree Farm - Buildings, trees, and bushes to be retained (pink)
- 3 8no new dwellings - To form Courtyard (yellow)
- 4 Site Boundary shrubs and undergrowth - to be trimmed back to proposed line of 1800mm high boundary fence
- 5 Trees within the site development area - The site is overgrown with uncontrolled growth over many years now prevalent. Any historic reason for specific species and their locations, no longer exists.
- 6 George Inn 1 - Shrubs and undergrowth to front of boundary to be removed to improve gable view of the building
- 7 George Inn 2 - Shrubs and trees to be trimmed back to joint boundary, subject to appropriate GBC approval (Listed Building in Conservation Area)
- 8 Wrotham Road frontage - Grass verge to Willow Tree Farm to be replicated in front of the rebuilt Holly Cottage
- 9 Entrance Road sight-lines - 2mx2m splays to be in grass (KCC Highways detail)
- 10 Landscaped area adjacent to change in direction of entrance road to be detailed with ground cover, shrubs and trees to provide visual barrier to views into the development

5 Development impact

By demolishing the existing Holly Cottage, and rebuilding in a similar style, the visual impact of the changes, from Wrotham Road, will be kept to a minimum. Additionally, by building behind the 2no Wrotham Road dwellings, again, the visual impact of the rear 7no houses, will again be minimised onto Wrotham Road. The substantial trees and planting to the north, west and south boundaries of the site are virtually impenetrable, even during winter, and as a consequence, the dwellings will be significantly hidden from all external views

6 Construction protection

Health and Safety protocols for working on building sites, adjacent to residential properties, neighbouring properties, highways, schools, car parks, will be incumbent upon all those involved in the design development and construction of the proposals, and followed accordingly. Detail specific policies will be established prior to works commencing, in compliance with the appropriate statutory legislation. Particular detailed attention will need to be paid to protect the perimeter trees immediately beyond the site boundaries

7 Site Trees and features



Wrotham Road - potential for improving vista to The George Inn



Western boundary from Leisure Centre car park



Southern boundary from Meopham School site



Previous aerial view of the site circa 2018



Wrotham Road - south eastern corner of site at Willow Tree Farm



Wrotham Road - towards north eastern corner of site



Overgrown planting at The George Inn to be trimmed/removed to enhance vista to the Listed Building



Overgrown non-maintained gardens to rear of properties



Holly Cottage rear garden - feature tree for potential retention?



Southern boundary to rear garden of Willow Tree Farm



BS5837:2012

**Trees in relation to design, demolition and construction –
Recommendations**

Tree Survey

Gordon McQuade

Holly Cottage

Wrotham Road

Meopham

DA13 0AH

3 August 2021

Author: Chris Wren BSc (Hons)

Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 29th June 2021 from Gordon McQuade to attend Holly Cottage, Wrotham Road, Meopham, DA13 0AH; grid reference, TQ 64357 65959 (site) to undertake an arboricultural survey a to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of trees and Tree Constraints Plan.

I am Chris Wren, an arboricultural surveyor for Arbtech Consulting Ltd. I undertook the tree survey on 19th July 2021 and subsequently, have produced this summary of my findings.

I have ten years of industry experience and hold a BSc (Hons) in arboriculture and urban forestry. I am a member of the Arboricultural Association and the Institute of Chartered Foresters.

The advice below and appended is underwritten by our Professional Indemnity insurance for the business practice of Arboricultural Consultancy in the sum of one million Pounds Sterling in each and every claim.

Table 1: Documents referred to.

Document	Reference No.
Survey base drawing	GMA-EXSP1
British Standard 5837:2012	"BS5837"
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

Tree Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Chris Wren on 19th July 2021.

During the survey, I categorised the trees using "Table 1 – Cascade chart for tree quality assessment" of the BS5837:2012 (see Appendix 1).

A total of 21No individual trees, 8No groups of trees, 2No hedges and 1No major shrub groups were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

Multiple small saplings exist within the scrub area to the north of Holley Cottage, all of which are >75mm diameter at 1.5m from ground level. Multiple formally maintained shrubs line the southern boundary, all of which are >75mm diameter at 1.5m from ground level.

Table 2: Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
OS Tile	GJS design consultants	GMA-EXSP1	Existing site plan

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

* For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 1), Tree Survey Report and Tree Constraints Plan.

Site description

Two residential houses with attached area of unmanaged land. Site is uniformly level and sits to the south of Meopham village. Four outbuildings occupy the Southwestern quarter of the site



Figure 1: OS Map (Bing Maps)



Figure 2: Aerial Image of Site (Google Maps)

Short description of the proposed development

It is proposed to demolish the northern residence and build 8 residential houses on the northern half of the area and some of the southwestern quarter of the area.

It is likely that arboricultural impacts can be addressed with arboricultural methodology or minor amendments to the proposal.

BS5837:2012 Scope

This standard recognises that there can be problems for development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees in relation to construction to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

Methodology

The methodology used to assess the trees was the British Standard 5837:2012 'Trees in Relation to Construction' tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection. And, which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable and systematic way. Where the arboriculturist has deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst master plan proposals for the development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories: A, B, C, or U (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.

The survey schedule lists all the trees or groups of trees. The following information is also provided:

- Sequential reference number (to be recorded on the tree survey plan);
- Species (common and/or taxonomic names);
- Height in meters (m);
- Trunk diameter in millimetres (mm) at 1.5 m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- Crown (branches) spread in meters taken at the four cardinal and/or intercardinal compass points;
- Height of crown clearance above adjacent ground level in meters (m);
- Age class
- Physiological condition
- Structural condition
- Comments/description of features
- Estimated remaining contribution
- Retention Category as described by application of the BS5837:2012 **Cascade Chart for Tree Quality Assessment (Appendix 1)**

Definitions

Arboriculturist

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

Tree Survey

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

Tree Constraints Plan

A TCP is a plan, typically delivered as an AutoCAD drawing (.dxf or .dwg file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

Root Protection Area

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m².

Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m²), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

Arboricultural Impact Assessment

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

Tree Protection Plan

A TPP is a plan, typically delivered as an AutoCAD drawing (.dwg file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.

Arboricultural Method Statement

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.

Recommendations

With the benefit of making an assessment of your planning proposals, we make the following recommendation to ensure that there are no irrevocable issues to the proposed retained trees and so that no conditions relating to arboriculture are attached to any planning consent secured; obtain an arboricultural report to include:

- a) An arboricultural impact assessment (AIA);
- b) An arboricultural method statement (AMS); and
- c) A tree protection plan drawing (TPP).

Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our Client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

Appendices

The following documents were released to the Client as appendices to this report:

- Survey Schedule (.pdf)
- Tree Constraints Plan drawing (.dwg/.dxf & .pdf)

If you require clarification of information contained herein, please do not hesitate to contact us via 01244 660558.

Yours Sincerely,



Chris Wren BSc (Hons). Arboricultural Surveyor

Appendix 1: Cascade Chart for Tree Quality Assessment

Cascade Chart for Tree Quality Assessment (BS5837:2012)

Category and definition	Criteria (including subcategories when appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	• Trees that have serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) • Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline • Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <i>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7.</i>			Dark red
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Light green
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects, including unsympathetic management and storm damage), such that they are unlikely to be suitable for retention of beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Mid blue
Category C Trees of low quality with an estimated remaining expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape value	Trees with no material conservation or other cultural value	Grey

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Appendix 2: Schedule of Trees

BS5837:2012 Tree Survey

Arbtech Consulting Ltd.

Client: Gordon McQuade
 Project: Holly Cottage
 Survey Date: 19/07/2021
 Surveyor: Chris Wren



Unit 3, Well House Barns
 Chester Road
 Chester
 Cheshire
 CH4 0DH
 Phone: 01244 661170

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
G01											Estimated Measurements			
Various		15	1	450	N	4	4	M	A: 91.6	Good	C: Good		B.2	
See comments for details					E	4	3		R: 5.39		S: Not visible	Off site group of sycamore and ash. Stems obscured by 2m tall boundary fence and undergrowth. Dimensions recorded represent average for the group.	20+ yrs	
					S	4	2				B: Not visible			
					W	4	3							
G02												Estimated Measurements		
Various		7	1	350	N	3	0	M	A: 55.4	Good	C: Good		C.2	
See comments for details					E	3	0		R: 4.19		S: Not visible	Off site group primarily comprising of hazel and hawthorn. Stems and basal area obscured by undergrowth. Dimensions recorded represent average for the group.	20+ yrs	
					S	3	0				B: Not visible			
					W	3	0							
G03												Estimated Measurements		
Various		2.5	1	100	N	1	0	M	A: 4.5	Good	C: Good		C.2	
See comments for details					E	1	0		R: 1.19		S: Not visible	Major shrub group comprising of rhododendron, roses and St John's wort. Dimensions recorded represent average for the group.	20+ yrs	
					S	1	0				B: Not visible			
					W	1	0							
G04												Estimated Measurements		
Various		7	1	200	N	2	0	EM	A: 18.1	Good	C: Good		C.2	
See comments for details					E	2	0		R: 2.4		S: Not visible	Group of western red cedar, buddleia and lawsons cypress. Stems and basal area obscured by undergrowth and tree crowns. Dimensions recorded represent average for the group.	20+ yrs	
					S	2	0				B: Not visible			
					W	2	0							
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area	ERC:		Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
G05											Estimated Measurements	
Various <i>See comments for details</i>	6	1	150	N	3	1	M	A: 10.2 R: 1.8	Good	C: Good S: Not visible B: Not visible	Group of plum, buddleia and sweet chestnut. Basal area and stems obscured by and inaccessible due to dense undergrowth. Dimensions recorded represent average for the group.	C.2 20+ yrs
G06											Estimated Measurements	
Various <i>See comments for details</i>	6	1	350	N	3	0	EM	A: 55.4 R: 4.19	Good	C: Good S: Not visible B: Not visible	Off site group primarily comprising of hazel and hawthorn. Stems and basal area obscured by undergrowth and 2m Harris rail boundary fence. Dimensions recorded represent average for the group.	C.2 20+ yrs
G07											Estimated Measurements	
Various <i>See comments for details</i>	15	1	450	N	4	4	M	A: 91.6 R: 5.39	Good	C: Good S: Not visible B: Not visible	Off site group of holly and ash. Stems obscured by 2m tall boundary fence and undergrowth. Dimensions recorded represent average for the group.	B.2 20+ yrs
G08												
Lawson Cypress <i>Chamaecyparis lawsoniana</i>	9	1	200	N	2	0	M	A: 18.1 R: 2.4	Good	C: Good S: Not visible B: Not visible	Group of four lawson's cypress. Multi stemmed habit typical of species, unions not visible due to ivy and proliferation of stems. Basal area and stems obscured by parked cars, ivy and proliferation of stems. Stems diverge at ground level. Dimensions recorded represent average for the group.	C.2 20+ yrs
G09											Estimated Measurements	
Various <i>See comments for details</i>	6	1	200	N	1	0	M	A: 18.1 R: 2.4	Good	C: Good S: Not visible B: Not visible	Off site boundary hedge primarily comprising of hawthorn and holly with areas of ash and buddleia. Dimensions recorded represent average for the group.	C.2 20+ yrs
Gravesham Borough												
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature		Condition:	C S B	Crown Stem Basal area		Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
H01											Estimated Measurements	
Various <i>See comments for details</i>	3	1	60	N	0.5	0	SM	A: 1.6 R: 0.71	Good	C: Good S: Not visible B: Not visible	Blackthorn hedge. Basal area and stems obscured by undergrowth.	C.2 20+ yrs
H02												
Various <i>See comments for details</i>	2	1	90	N	0.5	0	M	A: 3.7 R: 1.08	Good	C: Good S: Good B: Good	Formally maintained cherry laurel hedge. No significant featured noted at time of survey.	C.2 20+ yrs
T01												
Strawberry Tree <i>Arbutus unedo</i>	3.5	1	110	N	1	0	M	A: 5.5 R: 1.32	Good	C: Good S: Good B: Good	Formally maintained in current dimensions. Multi stemmed habit, as typical of species.	C.2 20+ yrs
T02											Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>	15	1	590	N	5	4	M	A: 157.5 R: 7.08	Good	C: Good S: Ivy B: Not visible	Steam and basal area obscured and inaccessible due to ivy and undergrowth.	B.2 20+ yrs
T03												
Strawberry Tree <i>Arbutus unedo</i>	4	2	100 (Eq)	N	2	0	M	A: 4.5 R: 1.19	Good	C: Good S: Good B: Good	Multi stemmed habit typical of species, unions included.	C.2 20+ yrs
T04												
Common Ash <i>Fraxinus excelsior</i>	8	1	200	N	1.5	3	SM	A: 18.1 R: 2.4	Good	C: Good S: Good B: Not visible	Lower 2m of stem and basal area obscured by undergrowth.	C.2 20+ yrs
Gravesham Borough Council												
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC:	Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T05												
Common Hazel <i>Corylus avellana</i>	6	7	265 (Eq)	N E S W	4 4 3 4	2 2 2 2	M A: 31.7 R: 3.17	Good	C: Good S: Not visible B: Not visible	Multi stemmed habit typical of species. 40+ stems. Stems diverge at ground level, unions not visible due to prolific number of stems.		C.2 20+ yrs
T06												
Magnolia <i>Magnolia sp.</i>	3	1	100	N E S W	1.5 1.5 1 1.5	1 1 2 1	EM A: 4.5 R: 1.19	Good	C: Good S: Fair B: Good	Rope tied around base of tree, compressing vascular tissues. Asymmetrical crown due to proximity of adjacent shed.		C.2 20+ yrs
T07												
Common or Black Elder <i>Sambucas nigra</i>	5	3	166 (Eq)	N E S W	4 1 0 2	1 2 2 2	M A: 12.4 R: 1.98	Good	C: Good S: Good B: Fair	Asymmetrical crown due to proximity of companion trees.		C.2 20+ yrs
T08											Estimated Measurements	
Austrian Pine <i>Pinus nigra ssp. Nigra</i>	18	1	450	N E S W	5 5 5 5	6 4 4 4	M A: 91.6 R: 5.39	Good	C: Good S: Not visible B: Not visible	Off site tree. Stem and basal area obscured by boundary hedge and out buildings.		B.2 20+ yrs
T09												
Prunus <i>Prunus sp.</i>	5	5	326 (Eq)	N E S W	3 3 3 3	1 2 2 2	M A: 48.1 R: 3.91	Good	C: Good S: Good B: Good	Stems diverge at ground level, unions compressed. Multiple natural braces present in crown. Pruning wound on North side of stem at 0.5m from ground level. Wound 240mm in diameter, no callous wood visible.		C.2 20+ yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC:	Estimated Remaining Contributio

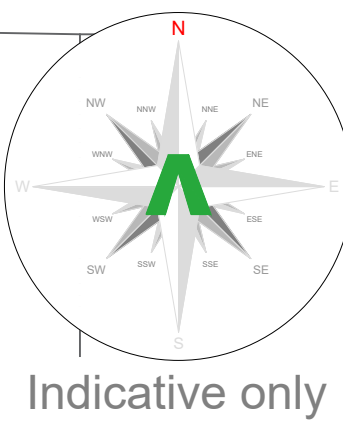
Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T10												
Prunus <i>Prunus sp.</i>	7	5	326 (Eq)	N E S W	3 3 3 3	2 2 2 2	M A: 48.1 R: 3.91	Good	C: Good S: Good B: Good	Stems diverge at ground level, unions compressed. Multiple natural braces present in crown. Wounds on southern side of eastern stem, 1m and 2m from ground level. Wounds approx 140mm diameter, no callous wood visible but epicormic growth (5mm diameter, 50mm long) present around both wounds.		C.2 20+ yrs
T11												
Viburnum <i>Viburnum sp.</i>	5	3	166 (Eq)	N E S W	2 1 3 3	1 1 1 1	M A: 12.4 R: 1.98	Good	C: Good S: Good B: Good	Asymmetrical crown due to proximity of companion trees. Multi stemmed habit typical of species, stems diverge at ground level.		C.2 20+ yrs
T12												
Dawn Redwood <i>Metasequoia glyptostroboides</i>	7	1	210	N E S W	2 2 2 2	4 4 4 3	EM A: 20 R: 2.52	Fair	C: Fair S: Ivy B: Not visible	Ivy on stem to 6m obscuring visual inspection. Crown topped at 2m from stem. No regeneration visible. Remaining foliage appears normal.		C.2 10+ yrs
T13												
wild olive <i>Elaeagnus augustifolia</i>	5	1	190	N E S W	3 3 2 1	2 4 4 2	M A: 16.3 R: 2.27	Good	C: Fair S: Good B: Good	Asymmetrical crown due to proximity of companion trees.		C.2 20+ yrs
T14												
Red Robin <i>Photinia fraseri</i>	5	3	139 (Eq)	N E S W	2 2 2 2	2 3 2 2	M A: 8.7 R: 1.66	Good	C: Good S: Good B: Good	Stems diverge at ground level, union included.		C.2 20+ yrs
Gravesham Borough Council												
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC:	Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T15												
Monterey Cypress <i>Cupressus macrocarpa</i>	13.5	1	800	N E S W	6 6 6 6	2 4 4 2	M A: 289.6 R: 9.6	Good	C: Good S: Good B: Good	Stem diverges into approx 10 stems at 2m unions compressed.		B.2 20+ yrs
T16												
Lawson Cypress <i>Chamaecyparis lawsoniana</i>	6	1	190	N E S W	0 1 2 1	2 2 2	SM A: 16.3 R: 2.27	Good	C: Good S: Good B: Good	Asymmetrical crown due to proximity of companion trees. Crown raised to current dimensions.		C.2 20+ yrs
T17												
Lawson Cypress <i>Chamaecyparis lawsoniana</i>	7	1	270	N E S W	0.5 3 0.5 0	2 2 2	EM A: 33 R: 3.24	Good	C: Good S: Good B: Good	Asymmetrical crown due to proximity of companion trees. Stem bifurcates at 2m union included.		C.2 20+ yrs
T18												
Plum <i>Prunus domestica</i>	5	1	110	N E S W	3 2 0 0	2 2 0 0	EM A: 5.5 R: 1.32	Good	C: Good S: Good B: Good	Asymmetrical crown due to proximity of companion trees.		C.2 20+ yrs
T19												
Lawson Cypress <i>Chamaecyparis lawsoniana</i>	3.5	1	240	N E S W	1 1 1 1	0 0 0 0	M A: 26.1 R: 2.88	Good	C: Fair S: Not visible B: Not visible	Formally maintained as a domed barrel. Previously topped at current dimensions.		C.2 20+ yrs
T20												
Birch 'Youngii' <i>Betula youngii</i>	4	1	300	N E S W	3 3 3 3	2 2 2 2	M A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	Crown previously raised to current dimensions. Wounds >60mm diameter, no visible callous wood. Stem diverges at 2m, cup union formed.		C.2 20+ yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition	ERC:	Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment	
T21											
Unknown	5	1	180			SM	A: 14.7 R: 2.16	Dead	C: S: Poor B: Not visible	Dead standing tree.	U n/a
- -											
Age Classifications: N Newly planted Y Young SM Semi-mature EM Early Mature M Mature OM Over Mature Condition: C Crown S Stem B Basal area Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition ERC: Estimated Remaining Contributio											

Appendix 3: Tree Constraints Plan

Note: Existing dwelling(s), retaining wall(s), road(s) and structures are likely to be partial or complete root barriers. We currently do not have enough information with regards to the existing and surrounding properties and structures, foundations, soil types etc. to definitively determine the root barriers. Site features that are significant enough to be considered barriers to root development, irrespective of proximity to trees, have been identified with a light blue hatch (see key for details).



Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'

Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.

Category 'V' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.

Category 'W' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

Category 'X' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 100mm.

Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPA) should be plotted around each of the category 'U' and 'V' trees. This is a minimum area in m which should be left undisturbed around each retained tree.

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

The calculated RPA is capped to 707m², which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

Tree Survey Report

Please refer to Arbtch Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, hedgerows and major shrub groups.

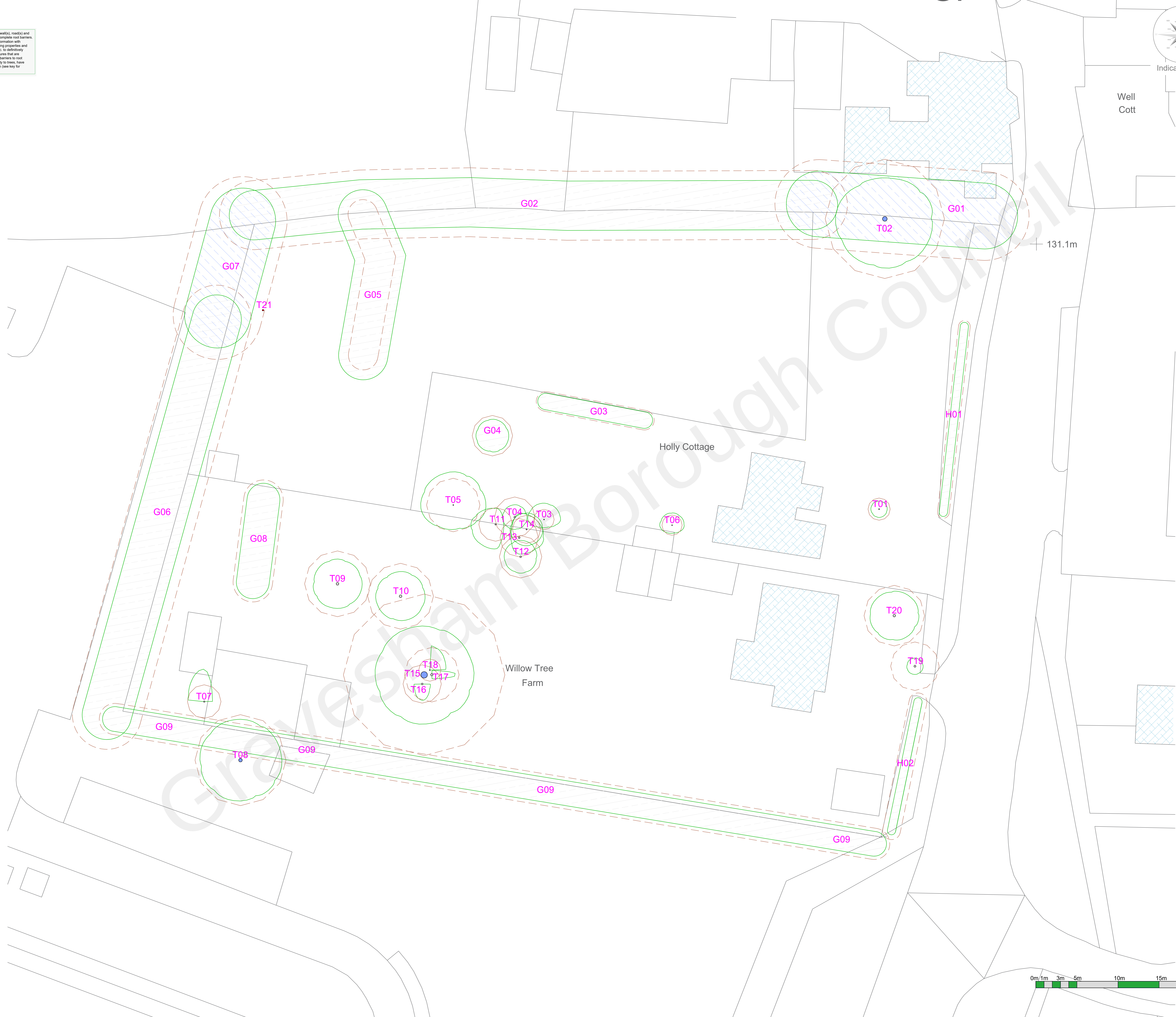
All trees were surveyed and categorised in accordance with the guidance set out in the British Standard BS5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

We make the following recommendation to ensure that no conditions relating to arboriculture are attached to any planning consent secured, obtain and arboricultural report to include:

a) An arboricultural impact assessment (AIA);

b) An arboricultural method statement (AMS); and

c) A tree protection plan (TPP).



ARBTECH

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Project:

Holly Cottage
Wrotham Road
Meopham
DA13 0AH,

Client:

Gordon McQuade

Drawing:

Tree Constraints Plan

Based on:

GMA-EXSP1

Drawing No:

Arbtch TCP 01

Rev:

Date:

July 2021

Scale:

1:150 @ A0

Drawn:

CMW

Key:

Tree Nos.:	T01	Tree Categories:		Trunks:	
RPA:		Category 'U' trees:		Category 'W' trees:	
Category 'V' trees:		Category 'X' groups:		Category 'B' groups:	
Potential root barriers:					

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Document Production Record

Document number	Editor	Signature	Position	Issue number	Date
Arbtech TSR 01	Chris Wren		Surveyor	1	03/08/2021

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2.7 Planning Statement

30th August 2021

1 Context

The development proposed utilises the space currently occupied by Holly Cottage, the strip of land immediately to its north, and approximately half of the rear garden to Willow Tree Farm to the south. The total site area is approximately 0.64 hectares. Immediately to the north is the George Inn (Listed Building, in "The Street Conservation Area"), and the rear gardens of several residential properties in Shipley Hills Road. To the west lies the Meopham Sports Centre, and to the south, lies Meopham School. Also in the adjacent "School Site", are Meopham Medical Centre, Meopham Library, and an early learning/day-care centre. Access to the site is surrounded by mature trees and shrubs to the south, west, and to a lesser extent, to the northern boundary. The buildings to the "School Site" are too remote, and too well screened by trees and shrubs to cause any visual concerns, in either direction.

The site is relatively level, but does fall slightly to the north along the western boundary, falling slightly more along the eastern boundary (Wrotham Road towards the George Inn), and at the same time, falls from the western boundary towards Wrotham Road. A dedicated Bus Stop was built some years ago, immediately in front of the site, and some steeper gradients have been incorporated locally, close to the George Inn. Accesses and crossovers exist to both Willow Tree Farm and Holly Cottage, and both go through the Bus Stop onto Wrotham Road.

Existing gardens are extensive to both properties, and as a consequence of limited maintenance over many years, they are now somewhat overgrown, and both trees and bushes to the perimeter have been particularly neglected. There are numerous outbuildings to the rear of Willow Tree Farm which will need to be removed to accommodate the proposed development.

2 Pre-Application : PRE20200168

An application for pre-application advice was submitted to Gravesham Borough Council in 2020. The submission related to a design proposal for the demolition of Holly Cottage, and the erection of 16 no 2 storey 2 bedroom flats, exclusively for the over-55 year age group. The response from GBC was forthcoming on that basis (as attached to the application). In the absence of a fully developed design, the response was comprehensive in its principles, while general in its detail, nevertheless, it did provide a background for subsequent design development, and subsequent revision. Matters considered, and commented upon, are as follows -

2.1 Development appropriate in the Green Belt

The site is in the Green Belt, beyond the village envelope of Meopham Green, and immediately adjacent to the west side of the Conservation Area, "The Street". The current submission follows the form, the layout, and the "style" of the proposals submitted previously, but is now for 8 no 4 bedroom family homes, including a new replacement Holly Cottage facing onto Wrotham Road. The Officer's response previously reported "Taking into consideration the existing dwellings and the current residential site use, together with the recent residential, leisure centre and school developments within the surrounding area, the principle of the proposal is considered acceptable. It is my opinion that the proposed senior residential development would not result in any further detrimental impact on the Green Belt than the existing surrounding developments." The current proposals are not materially different from the earlier submission, so it would not be inappropriate to reach the same conclusion.

2.2 The openness of the Green Belt

Again, the Officer's report, supports the development -

"Having established that the proposal is appropriate development in the Green Belt, it is considered that the location of the proposed residential development, would not extend past the existing site boundary, and would therefore not result in urban sprawl. Therefore, there is no conflict with national or local planning. In addition, the Officer's report acknowledges the site's access to both public transport and local amenities, " ... would therefore be considered a sustainable location"

Also, the Officer's report confirms the impact on both the Green Belt and the adjoining Conservation Area
" ... would have minimal impact"

2.3 Character and Appearance

There was a conscience design decision made at an early point in the design process, to minimise the amount of proposed building facing directly onto Wrotham Road, to lessen the impact of the proposed development on the street frontage. Subsequently, it became evident, that with an entrance road almost central to the site, there would be a streetscape benefit in replicating a "chalet bungalow" (in a matching "style"), to bring some design unity to the street elevation. By re-building a new dwelling no further forward than the retained Willow Tree Farm, there is another opportunity to improve the streetscape from the south of Wrotham Road to the adjoining George Inn public house. In replicating the garden wall style, in a widening splay towards the George Inn, it will be possible to remove the overgrowing vegetation on the site boundary, and open-up, and maintain, an improved vista to the pub, to enhance its position in the local streetscape.

The layout of the proposals, from the outset of the design process, has been arranged around a small cul-de-sac. In order to minimise the build impact on the views into the site, the dwellings along the southern edge sit directly behind the retained Willow Tree Farm, while the dwellings on the northern edge do not project further into the site than the second unit from the front. The access road has a change of direction shortly after entering the site, allowing a planted area to restrict direct views through the site

Materials remain to be confirmed within the "courtyard", but will come from a palette of blocks/kerbs/setts to the hardstanding areas of the entrance road, driveways and paths, from a selection of pastel/light facing bricks (to the elevations), composite pre-finished windows (powder-coated aluminium/timber), and sheet metal roof cladding from a selection of primarily grey shades

The replacement Holly Cottage will have red Rosemary roof tiles, white rendered external walls, white composite powder-coated aluminium/timber windows, all generally , to match the retained Willow Tree Farm

2.4 Space Standards

Internal space standards, external provision, window and garden provision have all been incorporated into the designs for the site as have KCC Highways expectations on vehicle access, turning provision, and parking standards

2.5 Impact on amenity of surrounding properties

The buildings of the "School Site" are too remote, and too well screened by trees and shrubs to cause any visual concerns, in either direction. New garden fences will be installed, and these will ensure privacy to the gardens of the proposed dwellings, and also act as an acoustic barrier to the adjoining George Inn (Listed Building in a Conservation Area) - customers and operational equipment. The scale, size, and location of the dwellings relative to the George Inn and the residential dwellings in Shipley Hills Road, are sufficiently remote, and of limited height, to create any issues with privacy, daylight, and sunlight, again, in either direction

2.6 Highways

A Pre-Planning application has been made to Kent County Council Highways, and the feedback is incorporated elsewhere

2.7 Climate Change

Detail solutions remain to be confirmed with regards to drainage to the site. However, it is intended that foul drainage will fall to the main sewer in Wrotham Road, and connect into that. Surface water drainage from the site is to be re-directed to soakaways within the site boundary, and details will be provided for approval before works commence on site.

PRE20200168

Site Address: Willow Tree Farm, Wrotham Road, Meopham, Gravesend, Kent, DA13 0AH

I am writing in reference to your request for pre-application advice for the above site. You have stated that you wish to ascertain whether it would be acceptable to demolish Holly Cottage, and the erection of 16no. 2 storey 2 bedroom flats, exclusively for over 55 year age group.

I have now had an opportunity to review your proposal in more detail and can offer the following comments:

Site Description:

The application site is located within the Green Belt as defined on the Local Plan Core Strategy Policies Map. It is located adjacent to Wrotham Road and is a mixed area with residential properties, the George Inn, leisure centre and new School development of Meopham Secondary School and part of the adjoining Conservation Area. The site itself is a large plot that has existing residential properties of Willow Tree Farm and Holly Cottage with adjoining surrounding gardens. The properties share an existing entrance onto Wrotham Road.

Proposal:

The proposal is to demolish Holly Cottage, and the erection of 16no. 2 storey 2 bedroom flats, exclusively for over 55 year age group. The proposed site plan shows 8no. two storey buildings, which would each have 2no. two bedroom flats. They are evenly spaced and with what appears to be a shared private amenity space to rear for each building. From the site plan, it would appear that there would a 'private close' arrangement accessed from the existing entrance off Wrotham Road. A parking layout has not been provided but the site plan seems to indicate enough space to the front of each building to accommodate parking provision. Other than a proposed site layout, no other details of design, materials, floor layouts and room sizes or parking provision have been provided.

Planning History:

Application Ref No.	Description	Status	Date
PRE20150436	Residential development	CLO	17.08.2015
PRE20160742	Proposed new base station installation at VF13246 Wrotham Road SW Wrotham Road Meopham Kent DA13 0AH	CLO	13.02.2017
20010416	Erection of first floor rear extension; alterations to existing roof involving enlargement and increased height of roof; construction of 2 dormer windows in front roof slope and one dormer window in rear roof slope to form 3 bedrooms and bathroom at first floor level in roof space.	PER	20.07.2001

19900696	Erection of single storey side extension to form enlarged dining room and enlarged lounge.	PER	13.11.1990
19900039	Erection of single storey side extension to form covered areas front and rear, two porches, lounge enlarged kitchen/diner with two bedrooms in the roof space and erection of a garage at the front.	REF	01.03.1990
19890508	Erection of single storey side extension to form covered areas front and rear, two porches, lounge enlarged kitchen/diner with two bedrooms in the roof space and erection of a garage at the front.	REF Appeal Dismissed	14.08.1989 24.07.1990
19760158	Outline application for one single storey dwelling	WDN	22.07.1976

Development Plan and other related Planning Policies and Guidance:

Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires the Borough Council to determine planning application in accordance with the development plan unless material considerations indicate otherwise. Where there are other material considerations, the development plan should be the starting point, and other material considerations should be taken into account in reaching a decision.

One such consideration will be whether the plan policies are relevant and up to date.

The Development Plan for Gravesham currently comprises:

- Gravesham Local Plan Core Strategy and Policies Map September 2014; and
- Saved policies on the Gravesham Local Plan First Review 1994.

The relevant policies for your proposal are as follows;

Gravesham Local Plan Core Strategy (September 2014):

- CS01 - Sustainable Development
- CS02 - Scale & Distribution of Development
- CS11 - Transport
- CS12 - Green Infrastructure
- CS14 - Housing Type and Size
- CS15 - Housing Density
- CS18 - Climate Change
- CS19 - Design & Development Principles
- CS20 - Heritage and the Historic Environment

Saved Policies in the Gravesham Local Plan First Review (1994):

- P3 - Vehicle Parking Standards
- T1 - Impact of Development on the Highway Network

Other material considerations;

National Planning Policy Framework (2019)

- Section 2 - Achieving sustainable development
- Section 4 - Decision-making
- Section 5 - Delivering a sufficient supply of homes
- Section 8 - Promoting healthy and safe communities
- Section 11 - Making effective use of land
- Section 12 - Achieving well-designed places
- Section 13 - Protecting Green Belt Land
- Section 14 - Meeting the challenge of climate change, flooding and coastal change
- Section 15 - Conserving and enhancing the natural environment

Supplementary Planning Guidance and other documents:

The Council has adopted a number of Supplementary Planning Guidance documents, Development Briefs and Conservation Area Appraisals. These elaborate on saved policies in the Gravesham Local Plan First Review and policies in the Gravesham Local Plan Core Strategy and are material considerations in determining planning applications.

In addition the Council has adopted a number of documents that have been produced by Kent County Council also as Supplementary Guidance.

<https://www.gravesham.gov.uk/home/planning-and-building/supplementary-planningguidance/supplementary-planning-guidance>

The following documents are relevant to the consideration of this enquiry:

- SPG 2 - Residential Layout Guidelines (1996)
- SPG 4 - KCC Parking Standards (2006)
- SPG 5 – Kent Design Guide (2006)
- Landscape Character Assessment (2009)
- Meopham Downs Landscape Character Area
- Housing Standards Policy Statement, 1st October, 2015; and
- Technical Housing Standards: Nationally Described Space Standards (2015).

The principle issues for the consideration of this pre-application are as follows:

- Principle of Development
- Character and appearance
- Living conditions for future occupiers
- Impact on amenity of surrounding properties
- Highway issues
- Archaeological Impact
- Flood risk and surface water drainage
- Affordable Housing
- Bird Disturbance – Contribution

As only an outline proposal has been provided, I will mainly be commenting on the principle and provide the necessary information in relation to the reserved matters.

Principle:

The application site is located in the Green Belt, an Area of Archaeological Potential and the Meopham Downs Landscape Character Area, and as such Policy CS02 of the Gravesham Local Plan Core Strategy (LPCS) 2014 is relevant. Development in the urban area is

prioritised as the sustainable location for development. In the rural area, Policy CS02 (LPCS) states that development will be supported within rural settlements that are inset from the Green Belt and defined on the policies map. Development outside those settlements, i.e. in the Green Belt, will only be supported where it is compatible with national policies for protecting the Green Belt and policies in the Local Plan Core Strategy.

Is the proposed development appropriate in the Green Belt?

There are strict policy considerations within the Green Belt whereby paragraph 143 (Section 13) of the National Planning Policy Framework (NPPF) (2019) states that inappropriate development is, by definition, harmful to the Green Belt and should not be approved except in very special circumstances. Paragraph 144 goes on to say that very special circumstances will not exist unless the potential harm to the Green Belt, by reason of inappropriateness, and any other harm, is clearly outweighed by other considerations. A local planning authority should regard the construction of new buildings as inappropriate in the Green Belt unless it falls within the specified exceptions. The relevant exception to consider for this application is part g of paragraph 145 of the NPPF (2019) which states that limited infilling or the partial or complete redevelopment of previously developed land, whether redundant or in continuing use (excluding temporary buildings), which would:

- not have a greater impact on the openness of the Green Belt than the existing development; or
- not cause substantial harm to the openness of the Green Belt, where the development would re-use previously developed land and contribute to meeting an identified affordable housing need within the area of the local planning authority.

Policy CS12 (LPCS) 2014 pre-dates the NPPF (2019) and therefore the weight attached to the policies must be considered carefully, with greater weight being given where the approach is consistent with paragraph 145 of the NPPF (2019).

Taking into consideration the existing dwellings and the current residential site use, together with the recent residential, leisure centre and school developments within the surrounding area, the principle of the proposal is considered acceptable. It is my opinion that the proposed senior residential development would not result in any further detrimental impact on the Green Belt than the existing surrounding developments.

2. The effect of the proposal on the openness of the Green Belt

Paragraph 133 of the NPPF (2019) states that the fundamental aim of Green Belt policy is to prevent urban sprawl by keeping land permanently open. It also states that the essential characteristics of Green Belts are their openness and permanence.

Having established that the proposal is appropriate development in the Green Belt it is considered that the location of the proposed residential development, would not extend past the existing site boundary and would therefore not result in urban sprawl. Therefore, there is no conflict with national or local planning policy.

The proposal proposes a subdivision of an existing residential plot. In this respect while there are no specific local planning policies which prohibit backland development in either the Local Plan Core Strategy 2014 or those saved policies from the Local Plan First Review (LPFR), at a national level the NPPF addresses the issues of garden grabbing in Paragraph 70 and states 'Local planning authorities should consider the case for setting out policies to resist inappropriate development of residential gardens, for example where development would cause harm to the local area'.

The site is located on the Wrotham Road and benefits from access to public transport (bus route) and local amenities and would therefore be considered a sustainable location. In relation to the impact on the Greenbelt & adjoining Conservation Area, taking into consideration the leisure centre to the west and newly built school to the south, the proposal would have minimal impact.

It is considered that local adopted Policies CS14 (Housing Type and Design, CS15 (Housing Density) and CS19 (Development and Design Principles) (LPCS) together provide an assessment framework in line with the guidance provided by Paragraph 70 of the NPPF. The proposal would need to be assessed against these policies and should be considered when designing the character and appearance of the scheme.

Character and Appearance:

The proposal stands to be assessed in accordance with Paragraph 70 of the National Planning Policy Framework and Policy CS14 (Housing Type and Design) and Policy CS15 (Housing Density) (LPCS) which both require new development to take into account the existing character of the area and to ensure that the density of new housing development does not compromise the distinctive character of the area in which it is situated.

In addition Policy CS19 (Development and Design Principles) (LPCS) provides that new development will also be visually attractive, fit for purpose and locally distinctive, and should conserve and enhance the character of the local built and natural environmental and integrate well with the surrounding area.

As details of design have not been submitted, the above will need to be taken into consideration when making a formal submission. However, in terms of site layout and building size, it would appear that the proposal has drawn upon the size, shape and roof design of the existing Willow Tree Farm which would lend itself to reflect upon the existing character of the area which would be welcomed.

Living Conditions of Future Occupiers:

CS19 (Development and Design Principles) (LPCS) states that new development should accord with the Residential Layout Guidelines and the National Housing Standards;
http://www.gravesham.gov.uk/__data/assets/pdf_file/0006/69801/SPG2_Residential_Layout_Guidelines.pdf
http://www.gravesham.gov.uk/__data/assets/pdf_file/0016/201625/Housing-Standards-Policy-Statement.pdf

The above will need to be taken into consideration to ensure that the proposed dwellings are appropriately sized in terms of gross internal floor area for two bedroom, three or four persons dwellings. The individual room sizes would also need to accord with the standards. The proposed dwellings each appear to have a shared amenity space and the size of these would need to be in accordance with the Residential Layout Guidelines.

Impact on Amenity of Surrounding Properties:

CS19 (Development and Design Principles) (LPCS) states that new development should be located, designed and constructed to safeguard the amenity, including privacy, daylight and sunlight of neighbouring properties and land.

Willow Tree Farm would be the closest residential dwelling, however it appears from the details submitted that the privacy distances set out in the Residential Layout Guidelines have been met. However, in order to avoid any unneighbourly overlooking or loss of privacy from

habitable rooms of Willow Tree Farm and the proposed dwellings, the window placements of all the units would need to be carefully considered.

Highway Issues:

The Council's approach to parking requirements is in accordance with the adopted Kent Vehicle Parking Standards (SPG 4 published in 2003 and adopted in 2006) and endorsed as supplementary guidance by Gravesham Borough Council on 6 July 2009.

These are set out as maximum standards although it should be noted that the government abolished national maximum parking standards in 2011 and the ministerial statement in March 2015 indicated that the imposition of maximum parking standards lead to blocked and congested streets and pavement parking and arbitrarily restricting new off-street parking spaces does not reduce car use. The adopted standards therefore would normally seek to be met in full.

The residential (Class C3) parking standards are:

Car Parking

- 1 bedroom 1 space per dwelling
- 2 and 3 bedrooms 2 spaces per dwelling
- Mixed Development of 1, 2 & 3 bedroom Average of 1.5 spaces across development
- 4 or more bedrooms 3 spaces per dwelling
- Sheltered Accommodation 1 space per resident warden + 1 space per 2 units

Notes: 1. Flats and Apartment Blocks consisting of 2 and 3 bedroom units will be regarded as Mixed Developments.

2. For 1-bedroom dwellings the parking will usually be provided as a communal space. For other size dwellings part or all of the parking can be provided on a communal basis.

3. The level of car parking provision includes any garages, provided as an integral part of the dwelling or within its curtilage, and/or driveways, provided within the curtilage, subject to the preferred sizes set out in Appendix B.

4. In Controlled Parking Zones the parking provision should result in no net loss of on-street parking.

Archaeological Impact:

As the site is within an Area of Archaeological Potential, KCC Heritage will be consulted on any formal submission and may wish for a Watching Brief which would be subject to a pre-commencement condition.

Climate Change:

Policy CS18 (LPCS) sets out the requirements for dealing with sustainable drainage and surface water run-off. No details have been provided at this stage but if an application was to be supported it would be subject to a pre-commencement condition.

Affordable Housing:

Policy CS16 (LPCS) relates to affordable housing. This policy states that in the rural area the provision of affordable housing will be required on all new housing developments of 3 units or more or on sites of 0.1 hectares. The current proposal appears to exceed these thresholds and as such there would be a requirement for the provision of affordable housing. Paragraph 5.12.10 of Policy CS16 requires that the amount of affordable housing to be provided by private housing development sites above the threshold will be 35% in the rural area.

In addition to Policy CS16, the Council issued a statement on 11 April 2018 explaining its approach to Policy CS16 in its decision making process with regard to the Written Ministerial Statement of 28 November 2014. The above requirement for affordable housing in connection with this development is also considered to comply with the Council's statement.

Paragraph 5.12.3 of LPCS states:

"...The NPPF requires careful attention to be paid to viability and costs in plan making and decision taking to ensure that development is deliverable. If, at the planning application stage, the applicant considers the proportion of affordable housing to be unviable, an open book viability assessment will be required to justify a lower provision."

Paragraph 5.12.13 of LPCS also states;

"In the Green Belt, limited affordable housing in a sustainable location for a proven and justified local community need will be supported. Such units once constructed will be occupied by people with a proven local community connection. This includes affordable rural workers dwellings. In all cases, permission granted under this policy will be restricted to those uses in perpetuity."

Summary:

The most relevant local and national policies at the time of this pre-application enquiry that the Borough Council will be looking to determine the application against have been clearly outlined in this document. Please note that the relevant policies are correct at the time of this pre-application enquiry and the applicant is informed that these may alter or additional considerations may arise between the date of this document and the formal submission for planning permission.

Based on the information submitted with this pre-application you are advised that the informal opinion of the Council is that the principle of the proposal to demolish Holly Cottage and erect 16no. 2 storey 2 bedroom flats, exclusively for over 55 year age group on the site of Willow Tree Farm would be acceptable subject to details of design and materials, property and room sizes and layout, parking provision and both hard and soft landscaping.

Please be advised that PRE20200168 is now closed.

NOTE: The comments contained herein are offered on an informal basis and without prejudice to the determination of any subsequent planning application. The Borough Council reserve the right to add or amend the comments in the light of any further information coming forward or matters that were not previously considered.

2.8 Utilities Assessment/Strategy

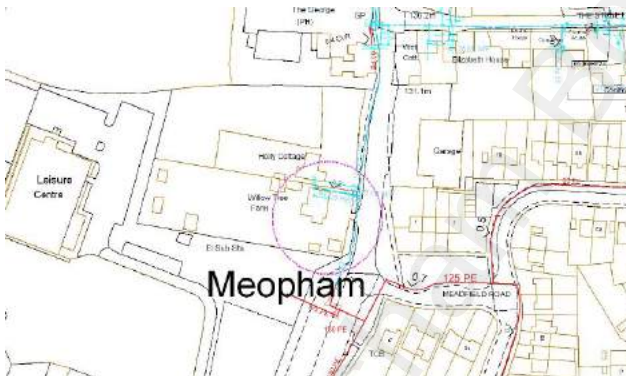
30th August 2021

1 Utilities Assessment



Both Willow Tree Farm and Holly Cottage are currently connected to all existing services, namely, gas, electricity, water, foul drainage, and telecoms. Surface water drainage discharges to on-site soakaways. New, and additional connections will be required from the mains supplies which all exist in Wrotham Road. Connections for Willow Tree Farm will be retained, with minor adjustments only, and if required when detail design and opening-up works are undertaken

1.1 Gas



The existing supply to Willow Tree Farm will remain, as there is no need for this supply to be replaced currently. Gas supplies will **not** be provided for the proposed new dwellings, as heating, hot water and cooking, will all be provided by electricity (whether it be mains, solar panels, or storage battery provided)

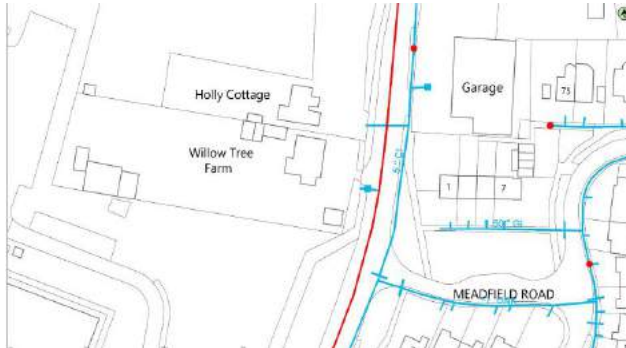
1.2 Electricity



New supplies to all new dwellings will be required from the electrical infrastructure which runs along Wrotham Road, adjacent to the site. The new dwellings will all be fitted with circa 16no 300watt solar panels, generating some 4.8kWh of electricity to each dwelling. Battery storage will be fitted in each dwelling, allowing both the capability of "stored" electricity being used when sunshine reduces, and power to be returned to the National Grid ("Grid Trading") when circumstances suit - "smart" energy controls will be employed to manage this process. Supplies to the dwellings will be "oversized" to permit EV charging in the not too distant future, without the

need to upgrade incoming supplies. Air source heat pumps are proposed, to provide further sustainable energy for each dwelling. Heating within the houses will be integrated into the building fabric, as will heat recovery ventilation systems, all to current "Passivhaus" standards.

1.3 Water



New supplies (and new "smart" meters) to all new dwellings, will be required from the water main, which runs along Wrotham Road, adjacent to the site.

1.4 Foul Drainage



A gravity foul drainage run follows the contours of Wrotham Road, and the current dwellings are connected into this. The new dwellings will either be connected through an existing connection, or a new connection, if required - detail design remains to be completed, and approved, but site levels and preliminary designs indicate this is a feasible solution.

1.5 Surface Water Drainage

All rainwater falling on roofs, paths, and roads, within the site boundaries, will be captured and discharged into purpose built soakaways within the site, thus ensuring retention of as much rainwater as practicable on site. Detail designs remain to be completed.

1.6 Telecommunications

It is anticipated that Fibre Optic cables will be run in a new network of suitable underground ducts within the site to all the new dwellings, capable of delivering "ultra-fast" services. There are projects throughout west Kent currently which are upgrading this service to domestic users, and it is anticipated this will be available when these dwellings are constructed. There exists a relatively new telecoms pole to the front of the existing Holly Cottage, but this may need to be upgraded when more fibre connections are required.

2 Utilities Strategy

2.1



The housing layout is wrapped round a central cul-de-sac road, and it is along this road that all services will run in, and out to all the existing utilities in Wrotham Road. A "services zone" will run in the access road, and will accommodate all the services as required. All new properties will be served via this route, and foul drainage will benefit from the natural lie of the land, and discharge through gravity

2.2



The proposed access road runs on the line of the "to-be-demolished" Holly Cottage, and its garden to the rear. There are no major trees of any significance along this route, and it is not anticipated there are significant archaeological remains, either along the line of the road, or elsewhere in the site. However, as the site sits within an Area of Archaeological Potential, then a pre-commencement commitment will be considered, if required

Above ground electricity cables running east-west to the north of the site can be re-routed by the network infrastructure provider