

Ecological Impact Assessment

for the

**Former Tollgate Hotel and land at the
junction of the A2 with Wrotham Road,
Gravesend**

September 2024

1 INTRODUCTION

1.1 Background

This report considers the likely impacts on biodiversity conservation of the proposal for re-development at the former Tollgate Hotel and land at the junction of the A2 with Wrotham Road, Gravesend (NGR: TQ6425871225) (hereafter called 'the Site'). The Site is some 1.2ha in size.

A summary of the proposals was advised as being:

"The demolition of existing buildings to provide an EV charging hub and petrol filling station, including 24 charging bays and supporting electrical infrastructure (12 charging upstands, three substations and two network cabinets), six pump islands with canopy above, a forecourt shop/amenity building, customer parking, two air and water spaces and associated hardstanding and landscaping, accessed from the Wrotham Road/eastbound A2 roundabout junction."

Eco Tech was commissioned to compile this report for submission with the planning application, utilising information derived from a UKHab habitat classification survey, outline and detailed protected species surveys and consideration of existing information.

Habitats and species are evaluated. Potential sources of impact on features of biodiversity conservation importance are outlined and potential effects of the proposals are described. Further survey and/or mitigation measures are outlined, as appropriate. Legal obligations in regard to any protected and non-native invasive species are also considered.

The application is considered eligible for the legally required 10% biodiversity net gain (BNG). Biodiversity net gain/loss resulting from the proposals as calculated using the Statutory Biodiversity Metric (<https://www.gov.uk/government/publications/statutory-biodiversity-metric-tools-and-guides>, accessed April 2024) are summarised in section 6. The completed metric spreadsheet is submitted separately.

1.2 Sources of Information

Information used in the production of this report was derived from the following surveys:

- UKHab v2 habitat classification survey (as per <https://ukhab.org/> accessed April 2024) but in tandem with BNG metric tool habitat classification which broadly aligns:
- Outline and detailed species survey/assessment as follows:
 - Vascular plant species - incidental records;
 - Invertebrates - incidental records, especially butterflies;
 - Great crested newt - search for suitable breeding habitat in the locality, including the use of online maps and aerial photography; visual search under any on-site refuges;
 - Reptiles - assessment of habitat suitability; visual search under any on-site refuges;
 - Wild birds - assessment of potential breeding habitat, obvious signs of previous or current breeding and incidental records;
 - Bats - see separate 2022 bat survey report and 2024 letter, hereafter, the SLR Reports);
 - Badger - search for setts and signs of activity e.g., paths, latrines within the Site and within some 30m of its boundary, where access permission allowed);
 - Other protected species and species of principal importance for biodiversity conservation - assessment of habitat suitability and outline search for signs;
 - Survey for invasive non-native species – incidental for those listed on Schedule 9 of the 1981 Wildlife and Countryside Act (as amended).

Survey (excluding bats) was first undertaken in June 2022 and comprehensively updated in April 2024.

In addition, existing information on statutory and non-statutory sites and notable species records within 1km of the centre of the Site boundary (5km for bat data) were obtained from the Kent and Medway Biological Records Centre (KMBRC).

Information was also obtained from Multi-Agency Geographic Information for the Countryside (MAGIC), <https://magic.defra.gov.uk/> with regard to statutory and non-statutory sites within a 1km of the Site boundary.

1.3 Constraints to survey

No significant constraints to survey were encountered. See SLR Reports for any constraints in relation to bat surveys.

2 BASELINE ECOLOGICAL DESCRIPTION

2.1 General ecological context

The Site is primarily a former pub and motel, which have been disused for some time. Much of the Site is bare, sparsely vegetated or supports buildings. There are relatively small areas of other neutral grassland, other broadleaved woodland, ruderal/ephemeral, bramble scrub and very small areas of a few other habitats.

The immediately surrounding landuse is greenspace except to the south, where the A2 dual carriageway passes close by. Beyond the greenspace to the north is mainly housing and retail.

2.2 Habitats

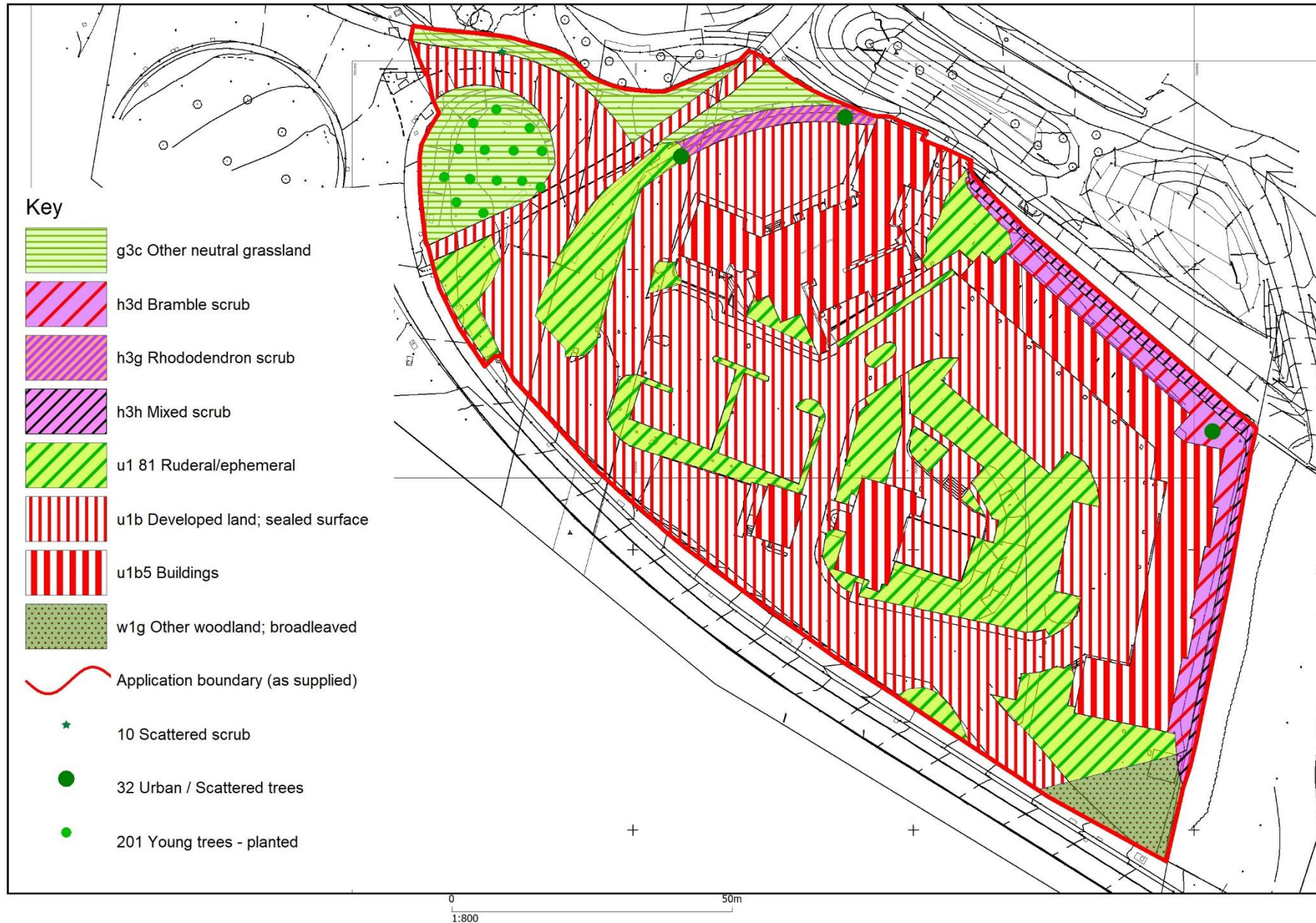
The location and extent of habitats in April 2024 are shown on Map 1.

Table 1 gives a list of BNG/UKHab habitats identified. Each is subsequently described below.

Table 1 Inventory of habitats present

BNG/UKHab habitat	Approx. area (ha)
Other neutral grassland (g3c)	0.08
Bramble scrub (h3d)	0.04
Rhododendron scrub (h3g)	0.01
Mixed scrub (h3h)	0.02
Ruderal/ephemeral (u1 81)	0.23
Developed land; sealed surface (u1b)	0.6
Buildings (u1b5)	0.2
Other broadleaved woodland (w1g)	0.02
Scattered scrub 10	n/a
Urban / Scattered trees 32	n/a
Young trees - planted 201	n/a

Map 1 - Location and extent of habitats



Other neutral grassland (g3c) with urban / scattered trees 201

This grassland occurs as a discrete patches at the north-west of the Site. See photos 1 and 2.

Coarse grasses including false oat-grass, cock's-foot, barren brome, meadow foxtail and Yorkshire-fog are generally co-dominant in some combination. Soft-brome and red fescue are locally frequent. Broadleaved species are frequent, especially ox-eye daisy, common vetch, creeping thistle, hop trefoil, wild carrot and wild teasel. At least some of the sward gives the impression of having been seeded as a wildflower area but has lacked the management to maintain floristic diversity. Much has been planted with regularly spaced flowering cherry cultivars which are some 4m tall and 10cm dbh.

Bramble scrub (h3d)

Dense bramble scrub, recent cut but regrowing, occurs in a 2-3m wide strip along part of the north-eastern and eastern boundaries on the inside of a security fence. See photo 7.

Elder, butterfly bush, dogwood and creeping thistle are locally frequent growing amongst the bramble regrowth. There is also a small silver birch tree (see 32 below).

Rhododendron scrub (h3g)

This comprises a single wide strip of dense tall cherry laurel at the centre-north of the Site which UKHab defines as an inclusion under this habitat. A short length of this appears to have recently been trimmed to facilitate the installation of a new section of security fence.

Mixed scrub (h3h)

Dense mixed scrub, occurs in a 2-3m wide strip along part of the north-eastern and eastern boundaries on the outside of a security fence.

Hawthorn, wayfaring tree, elder and bramble form the bulk of the species in what appears to be well grown landscape planting.

Ruderal/ephemeral (u1 81) with scattered scrub 10

Several patches of this habitat occur throughout the Site. See photos 3-6 and 10-13.

As is typically of this habitat a clear dominant is often absent although common nettle, false oat-grass, hemlock, white deadnettle and young bramble are all patchily abundant. Smooth sow-thistle, annual mercury, rosebay willowherb and white clover. Hawthorn and dogwood (scattered) scrub seedlings and saplings are all locally frequent.

Developed land; sealed surface (u1b)

This habitat forms the majority of the Site and comprises the roads, footways, paved areas and former car parks. See photos 1-6 and 9-13.

Buildings (u1b5)

At the time of survey there were four disused buildings. Full descriptions are given in the SLR Reports, where they are referred to as B1 to B4. See for example photos 3-13.

Urban / Scattered trees (32)

There are three trees, a pine and a whitebeam at the centre-north and a young silver birch amongst the bramble scrub at the north-east of the Site. See photos 1 and 2.

Other broadleaved woodland (w1g)

A single small block of this woodland occurs in the south-east corner of the Site.

It is dominated by planted ash to some 12m tall with occasional field maple, hawthorn, and dogwood as an indistinct shrub layer. The dense shade results in a sparse field layer dominated by patchy ivy with scattered hawthorn seedlings.

2.3 Species (including existing records)

Vascular plants

Incidental records for vascular species are included in Appendix 1. 48 species or species aggregates were recorded.

KMBRC returned records for some 50 species of vascular plants within 1km of the boundary of the Site. None of these were apparently recorded from the Site (see Appendix 2).

Invertebrates

Incidental records are included in Appendix 1.

KMBRC returned records for some 25 species of invertebrates within 1km of the boundary of the Site. None of these were apparently recorded from the Site (see Appendix 2).

Great crested newt

There are no potential breeding sites (waterbodies) within the Site. Within some 500m of the Site boundary, three potential breeding sites (waterbodies) were visible on online maps and aerial photography north of the A2 trunk road*. Two appear to be adjacent sustainable drainage sites/balancing ponds, some 55m west and south-west of the Site at the nearest points respectively. The third appears to be a lined reservoir on a golf course some 330m north-east of the Site at the nearest point.

Given that:

- No great crested newts (or other amphibians) were found under any on-site refuges;
- The two balancing ponds held no water at the time of survey and if any water was present, it would fluctuate widely in level (a feature that causes newt egg mortality);
- Both waterbodies are effectively separated from the Site by the busy Wrotham Road (which forms a significant barrier to newt movement into the Site);
- The lined reservoir is separated from the Site by built development (mostly housing) and roads (which form a significant barrier to newt movement into the Site). Moreover, given the distance between this waterbody and the Site, dispersal of GCN from it (even if present) into the Site, would be highly unlikely;
- According to KMBRC There are no existing records for great crested newt within 1km of the boundary of the Site.

It can reasonably be concluded that great crested newts are likely to be absent from the Site.

* In line with English Nature. 2001. waterbodies south of this major and significant barrier to dispersal were discounted from further assessment.

Reptiles

None of the habitat present is considered particularly suitable for reptile use.

Given this, and;

- The Site is effectively isolated by built development and busy roads from large areas of suitable habitat in the locality;
- No reptiles or signs of reptiles were found under on-site refuges.
- KMBRC returned records for 3 species of reptile within 1km of the boundary of the Site (see Appendix 2). but none of these were apparently recorded from the Site or within some 100m of it.

It can reasonably be concluded that reptiles are likely to be absent from the Site.

Birds

Incidental bird species records are included in Appendix 1. Of the 10 species recorded, 5 are considered as probably breeding and one (blackbird) was confirmed breeding within the Site.

KMBRC returned 66 records of birds within 1km of the boundary of the Site. None of these were apparently recorded from the Site and most are records to an accuracy of 2km (see Appendix 2).

Bats

According to the SLR Reports, three of the four buildings were assessed as offering moderate potential for roosting bats. However, no bats were observed emerging from or re-entering the buildings. Very limited commuting and foraging activities were observed.

All three of the scattered trees present were considered to have negligible potential to support a roost.

KMBRC returned 5 records of bats within 1km of the boundary of the Site, though none from the Site itself (see Appendix 2). There appear to be no sites designated for their bat interest within 5km of the Site.

Badger

No setts or signs of activity were seen.

KMBRC returned 2 records of badger within 1km of the Site boundary (see Appendix 2).

Other protected species and species of principal importance for biodiversity conservation

With the exception of hedgehog, no habitat considered particularly suitable for other protected species or species of principal importance was found within the Site, including those species previously recorded as occurring in the locality.

KMBRC returned records for several other species they class as "Conservation Concern Species", "Protected Species" and "Kent Rare & Scarce Species" within 1km of the Site boundary. None appear to be from the Site (see Appendix 2).

Invasive non-native species

A cotoneaster species was identified within the Site, roughly central to it in the ruderal/ephemeral habitat.

KMBRC returned 10 such species as having been recorded within 1km of the centre of Site, although none were from within the Site itself (see Appendix 2).

2.4 Statutory, non-statutory and other sites of biodiversity conservation value in the locality

According to information received from KMBRC and from MAGIC, there are no internationally or nationally statutorily designated sites within 1km of the Site boundary. The nearest statutory site appears to be Swanscombe Peninsula SSSI some 2.8km north-west of the Site at the nearest point.

The only non-statutory site advised of by KMBRC appear to be “water feature” sites. These are effectively as described in section 2.3 *Great crested newts*.

Photos



Photo 1 From the north-west corner looking south-east, showing mainly developed land sealed surface and other modified grassland with urban / scattered trees (2022)



Photo 2 As photo 1 but from a different angle (2024)



Photo 3 From near the south-east corner looking north-west, showing mainly developed land sealed surface, buildings (B3 and B4) and ruderal/ephemeral (to right) (2022)

Photos (cont.)



Photo 4 As photo 3 but from a slightly different angle (2024)



Photo 5 From near the south-east corner looking north, showing mainly ruderal / ephemeral and buildings (B2) (2022)



Photo 6 As photo 5 but from a slightly different angle (2024)

Photos (cont.)

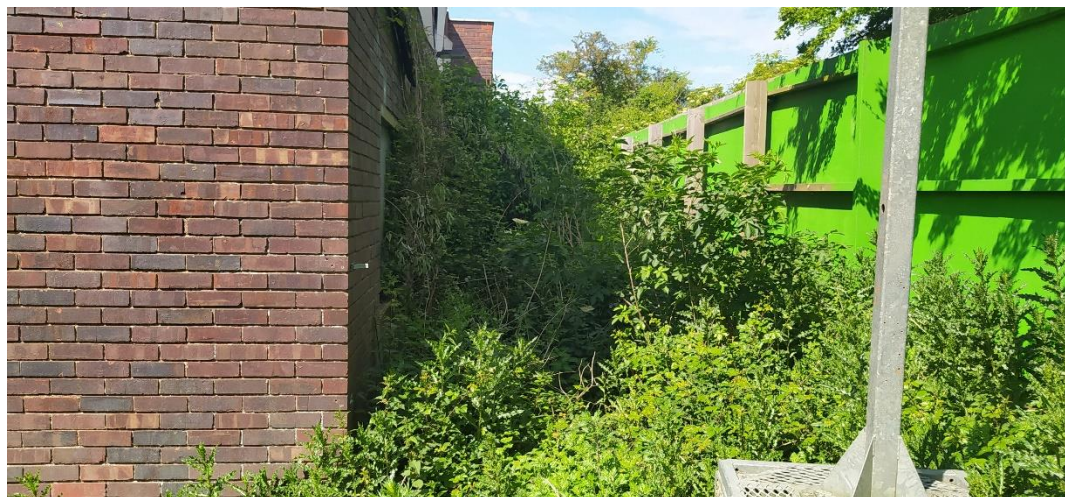


Photo 7 From near the south-east corner looking north-east, showing mainly bramble scrub and a building (B2) (2022)



Photo 8 As photo 7 showing recent cutting of scrub (2024)



Photo 9 From the centre north looking east, showing building (B2) and developed land sealed surface. (2022)

Photos (cont.)



Photo 10 From the centre north looking south-east, showing buildings (B2 and B3), developed land sealed surface and ruderal / ephemeral (centrally) (2022)



Photo 11 Much as photo 10 (2024)



Photo 12 From the centre north looking south, showing buildings (mainly B3 and B4), developed land sealed surface and ruderal / ephemeral (to centre left) (2022)

Photos (cont.)



Photo 13 Much as photo 12 from a slightly different location and angle (2024)

3 EVALUATION

3.1 Method for evaluation of features

Habitat and species evaluation essentially follows the Chartered Institute of Ecology and Environmental Management (CIEEM) guidelines for Ecological Impact Assessment (CIEEM, 2018).

In order to assess impacts arising from a particular development, it is necessary to establish the biodiversity conservation value of each feature/receptor likely to be affected by the proposals, both within and adjacent to the Site.

The value or potential value of each feature identified is evaluated according to its importance in a geographical context, as follows:

- International;
- National (England);
- County (Kent);
- Site (the site or a larger area if impacts extend further for certain features);

or

- Of negligible value/importance.

The CIEEM guidelines suggest that value assigned to a feature should be a matter of professional judgement based on statutory requirements and policy objectives for biodiversity. These include the key sites, as well as habitats and species of principal importance for biodiversity conservation in England, as derived from the Natural Environment and Rural Communities (NERC) Act 2006 (see CIEEM, 2018 for more detail). Habitats of principal importance for biodiversity conservation in England are also commonly referred to as priority habitats.

Individual species that are protected under European or National legislation are evaluated as above, but with the additional consideration of legal obligations.

3.2 Habitats within the Site boundary

None of the Site appears to be within or immediately adjacent to a statutory or non-statutory site of biodiversity conservation value.

No habitats present are considered to be any of those of principal importance for the conservation of biological diversity in England (https://en.wikipedia.org/wiki/List_of_species_and_habitats_of_principal_importance_in_England, accessed April 2024).

Thus it is considered reasonable to conclude that all of the habitats currently present are of negligible biodiversity value.

3.3 Species

Vascular plants

The diversity of vascular plants recorded is not considered to be of note.

No species recorded are notable in a national context (Cheffings & Farrell (eds), 2005), excluding the 'least concern' category).

Thus, the Site is considered to be of negligible value for vascular plant species.

Invertebrates

No species are known to currently occur that are notable in a national or local (based on habitats present, existing and incidental records). It is therefore considered likely that the Site is of negligible value for invertebrates.

Great crested newt

Given its likely absence, the Site is considered to be of negligible value for this species.

Reptiles

Given their likely absence, the Site is considered to be of negligible value for this species group.

Birds

Given the nature and extent of the habitats present, existing and incidental records, the Site is considered likely to be of negligible value for this species group.

Some of the habitats within the Site provide suitable nesting opportunities for a range of species of birds. Active nests of most wild birds are protected from damage and destruction under the Wildlife and Countryside Act 1981 (as amended). See Appendix 3 for details.

Bats

According to the SLR Reports, the value of the Site overall is considered to be negligible at both the site level and local level for this species group.

Badger

Given its likely absence, the Site is considered to be of negligible value for this species.

Other protected species and species of principal importance for biodiversity conservation

With the exception of hedgehog, given the lack of suitable habitat, it is considered unlikely that any other such species are either present within the Site or are solely reliant on it for their continued presence in the locality.

There are several existing records for hedgehog within the locality and the habitats present are considered broadly suitable as breeding, foraging and commuting habitat. Hence, the Site may be of value to hedgehog in a site context

3.4 Statutory, non-statutory and other sites of biodiversity value in the locality

The biodiversity value KMBRC place on “water feature” sites does not appear to be defined in the data they provided.

3.5 Evaluation summary

The Site is considered to be of greater than negligible nature conservation value for hedgehog for which it is considered of value in a site context:

There are legal obligations with regard to nesting wild birds (active nests) and the invasive non-native cotoneaster species. See Appendix 3.

4 POTENTIAL IMPACTS

4.1 General

This section considers the potential and predicted impacts which might arise from the scheme in the absence of mitigation. These are divided firstly into direct impacts arising from the Proposed Development itself and then indirect impacts arising from other possible associated effects.

4.2 Method of impact assessment and prediction

The method essentially follows a simplified form of the guidance set out in the Chartered Institute of Ecology and Environmental Management (CIEEM) Guidelines for Ecological Impact Assessment 2018.

An assessment (in the absence of mitigation) is made of whether important ecological features (features of greater than negligible value) will be subject to impacts and characterisation of these impacts and their effects.

Typically, this can involve;

- Characterisation of unmitigated impact on the feature (often including extent (area), duration and reversibility, as well as the size and/or severity of the impact in quantitative terms);
- Significance without mitigation and confidence level (often including if the impact is positive or negative, the likelihood that any impacts will occur as predicted).

The following predicted impacts are based on the supplied development boundary and proposals.

Both direct impacts on habitats and species within the Site and potential effects off-site on habitats and species in the vicinity of the proposals are considered.

4.3 Potential direct Impacts on habitats

Since only habitats/features considered to be of greater than negligible significance are considered, no significant direct impacts are predicted with a high degree of confidence.

4.4 Potential direct impacts on species

If hedgehog is present breeding, foraging and commuting habitat would be temporarily lost during clearance and construction. However, given the temporary nature of the loss and suitability of the habitat in the locality (as evidenced by the existing records), this is considered to be a possible minor adverse impact on the species in a site context and is predicted with a high degree of confidence.

4.5 Potential indirect impacts on habitats and species within and immediately adjacent to the Site

These can arise from sources such as human activities, lighting, noise and dust. Given the nature of the proposals in an area already subject to significant human activities, lighting, noise and dust (such as from the A2 trunk road and existing adjacent service station), it is considered that no significant additional adverse indirect impacts are likely. This is predicted with a high degree of confidence.

4.6 Potential indirect impacts on adjacent statutory and non-statutory sites

The Site is some 2.8km from the nearest biological SSSI. Given the extent and nature of the proposals, it does not appear trigger the Impact Risk Zone consideration for this, or other, more distant SSSIs (or other statutory sites), including in relation to discharge of water or liquid waste. Thus no significant indirect impact is predicted on them with a very high level of certainty.

4.7 Legal obligations in relation to protected species

There are legal obligations regarding the active nests of wild birds and the invasive non-native cotoneaster species. See Appendix 3.

5 PROPOSED MITIGATION, COMPENSATION AND ENHANCEMENT

5.1 General

This section outlines possible measures to mitigate for any significant impacts of the proposals. Compensation and enhancement measures are also outlined.

5.2 Habitats

There has been avoidance by design on habitats of higher distinctiveness (as per the Statutory Metric) wherever feasible. This includes areas of adjacent neutral grassland and woodland in the same ownership. These retained habitats will be enhanced for biodiversity by sensitive management such as thinning of non-native trees and shrubs and providing deadwood log piles in the woodland and a sensitive cutting regime and scrub clearance in the grassland. Such management will aim to enhance the habitats by improving their “condition” as per the condition assessments that form part of the Statutory Metric. See section 6.

Where avoidance is not feasible because of design constraints, compensatory habitats are proposed. These include the creation of woodland and scrub, hedgerow, neutral grassland, ground cover and green gabion wall, sedum roof, and native tree planting.

5.3 Species

Birds

No significant adverse impact on bird species has been predicted. However, a variety of bird species will benefit from the suggested habitat creation. In addition, in order to ensure nesting sites are also available in the short term, the following compensatory measure and enhancement is proposed (in line with National and local policies and guidance):

- Placement of six open fronted, small and large diameter hole bird boxes (some of these could be integrated into buildings).

To avoid potential offence with regard to active nests which are protected in law, removal of vegetation/features which might act as nesting sites for birds would be undertaken outside the main bird breeding season (which is March to August). If this is not feasible, vegetation/features would be checked in advance for active nests.

Bats

According to the SLR Reports, no bats were seen to emerge from, or return to roost in any of the buildings, indicating that these buildings were not being used by roosting bats. The surveys undertaken in 2022 will count as pre-demolition surveys for any of the buildings to be demolished in the next 24 months. After that, these buildings will be subject to a pre-demolition survey.

Nevertheless, certain bat species will benefit from the proposed habitat creation. Moreover, as enhancement and in order to ensure roosting sites are also available in the longer term, the placement of a variety of bat boxes is recommended. The SLR report suggests roosting opportunities in the form of bat boxes could be provided on trees as far away from the A2 as possible to limit their exposure to the traffic noise and light spill. They recommend using WoodStone products that utilise a mix of concrete and wood fibres, creating a strong, long lasting and sustainable product. The Habitat 003 Bat Box Range is given as a suitable product.

Artificial lighting should use best practice designs to mitigate for any indirect adverse impact.

Hedgehog

Modern fencing down to ground level prevents hedgehogs from moving between foraging areas. Hence, small, 13x13cm gaps at ground level in fencing is proposed. This is sufficient for any hedgehog to pass through but too small for nearly all pets and for foxes.

A 'hedgehog house' suitable for both breeding and hibernation will be provided (for example see <https://www.arkwildlife.co.uk/product/woodstone-hedgehog-house/>, accessed April 2024).

6 BIODIVERSITY NET GAIN

The Statutory Metric was applied to the baseline data/situation as compared to the provided proposals.

The proposals provide the following headline results from the Metric

	FINAL RESULTS						
	Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)				<i>Habitat units</i>	0.50	
					<i>Hedgerow units</i>	0.68	
					<i>Watercourse units</i>	0.00	
	Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)				<i>Habitat units</i>	14.81%	
					<i>Hedgerow units</i>	N/A	
					<i>Watercourse units</i>	0.00%	
	Trading rules satisfied?				Yes ✓		

As can be seen, the Metric predicts a 14.8% net gain in habitat units. In addition, trading rules are satisfied.

The full Metric spreadsheet has been submitted as a separate document.

7 REFERENCES & BIBLIOGRAPHY

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Appendix 1 Species recorded by survey

A. VASCULAR PLANTS

Nomenclature primarily follows Stace 1991

English Name	Latin Name
annual meadow-grass	<i>Poa annua</i>
annual mercury	<i>Mercurialis annua</i>
ash	<i>Fraxinus excelsior</i>
barren brome	<i>Anisantha sterilis</i>
blackthorn	<i>Prunus spinosa</i>
bramble	<i>Rubus fruticosus agg.</i>
broadleaved dock	<i>Rumex obtusifolius</i>
broadleaved willowherb	<i>Epilobium montanum</i>
butterfly bush	<i>Buddleja davidii</i>
Canadian fleabane	<i>Conyza canadensis</i>
cherry laurel	<i>Prunus laurocerasus</i>
cleavers	<i>Galium aparine</i>
cock's-foot	<i>Dactylis glomerata</i>
colt's-foot	<i>Tussilago farfara</i>
common bent	<i>Agrostis capillaris</i>
common nettle	<i>Urtica dioica</i>
common vetch	<i>Vicia sativa</i>
creeping thistle	<i>Cirsium arvensis</i>
dogwood	<i>Cornus sanguineum</i>
elder	<i>Sambucus nigra</i>
false oat-grass	<i>Arrhenatherum elatius</i>
field maple	<i>Acer campestre</i>
flowering cherry (cultivar)	<i>Prunus sp</i>
hemlock	<i>Conium maculatum</i>
hawthorn	<i>Crataegus monogyna</i>
hazel	<i>Corylus avellana</i>
hop trefoil	<i>Trifolium campestre</i>
ivy	<i>Hedera helix</i>
meadow foxtail	<i>Alopecurus pratensis</i>
mugwort	<i>Artemisia vulgaris</i>
ox-eye daisy	<i>Leucanthemum vulgare</i>
(a) pine	<i>Pinus sp.</i>
red fescue	<i>Festuca rubra</i>
ribwort plantain	<i>Plantago lanceolata</i>
rough meadow-grass	<i>Poa trivialis</i>
rosebay willowherb	<i>Chamerion angustifolium</i>
silver birch	<i>Betula pendula</i>
soft-brome	<i>Bromus hordeaceus</i>
smooth sow-thistle	<i>Sonchus oleraceus</i>
sycamore	<i>Acer pseudoplatanus</i>
wayfaring tree	<i>Viburnum lantana</i>
white clover	<i>Trifolium repens</i>
white deadnettle	<i>Lamium album</i>
whitebeam	<i>Sorbus aria</i>
wild cherry	<i>Prunus avium</i>
wild carrot	<i>Daucus carota</i>
wild teasel	<i>Dipsacus fullonum</i>
Yorkshire-fog	<i>Holcus lanatus</i>

B. BUTTERFLIES (English names only)

Butterflies

common blue

large white

small white

C. BIRDS (English names only)

blackbird**

carrion crow

chaffinch*

great tit

magpie

pied wagtail*

robin*

starling

wood pigeon*

wren*

*Species considered probably breeding (eg: pair observed in suitable nesting habitat in the breeding season).

**Species considered probably breeding (eg: nest or nesting behaviour seen).

Appendix 2 Summary of existing information supplied by KMBRC (excluding bats)

Birds

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Fulmar	<i>Fulmarus glacialis</i>	Berne:A3; BoCC5:Amber (Subsp. Red)	1	25/05/2008		Istead Rise (TQ6370)	25/05/2008	N
Red Kite	<i>Milvus milvus</i>	Berne:A3; BoCC5:Green; Bonn:A2; ECCITES:A; BirdsDir:A1; WCA1	1		28/08/1988	Istead Rise (TQ6370)	28/08/1988	N
Hen Harrier	<i>Circus cyaneus</i>	Berne:A3; BoCC5:Red; Bonn:A2; ECCITES:A; BirdsDir:A1; S41; WCA1	1		02/03/1986	Istead Rise (TQ6370)	02/03/1986	N
Sparrowhawk	<i>Accipiter nisus</i>	Berne:A3; Bonn:A2; BoCC5:Amber; ECCITES:A	3	30/04/2013	16/09/1998	Istead Rise (TQ6370)	30/04/2013	N
Common Buzzard	<i>Buteo buteo</i>	Berne:A3; Bonn:A2; ECCITES:A	1	30/04/2013		Istead Rise (TQ6370)	30/04/2013	N
Kestrel	<i>Falco tinnunculus</i>	Berne:A2; BoCC5:Amber; Bonn:A2; ECCITES:A	3	30/04/2013		TQ67 (TQ67K)	01/06/1989	Y
Red-legged Partridge	<i>Alectoris rufa</i>	Berne:A3; BirdsDir:A2.1	1	01/06/1968		TQ67 (TQ67K)	01/06/1968	Y
Grey Partridge	<i>Perdix perdix</i>	BAP; Berne:A3; BoCC5:Red; BirdsDir:A2.1; KRDB2; S41	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Pheasant	<i>Phasianus colchicus</i>	Berne:A3; BirdsDir:A2.1	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Moorhen	<i>Gallinula chloropus</i>	Berne:A3; Bonn:A2; BoCC5:Amber; BirdsDir:A2.2	1	01/06/1968		TQ67 (TQ67K)	01/06/1968	N
Black-winged Stilt	<i>Himantopus himantopus</i>	Berne:A2; Bonn:A2; BirdsDir:A1; BoCC5:Amber; WCA1	1	18/04/2015		Singlewell (Gravesend) (TQ655708)	18/04/2015	N

Common Name	Scientific Name	Designation	Number of Records	Recent Summer (Apr-Jul)	Recent Winter (Aug-Mar)	Nearest Location	Date of Nearest	Confirmed Breeding?
Lapwing	<i>Vanellus vanellus</i>	BAP; Berne:A3; BoCC5:Red; Bonn:A2; BirdsDir:A2.2; KRDB2; S41	1	01/06/1989		TQ67 (TQ67K)	01/06/1989	N
Black-headed Gull	<i>Larus ridibundus</i>	Berne:A3; BoCC5:Amber; BirdsDir:A2.2	1	30/04/2013		Istead Rise (TQ6370)	30/04/2013	N
Feral Pigeon	<i>Columba livia</i>	Berne:A3; ECCITES:A; BirdsDir:A2.1	1	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Stock Dove	<i>Columba oenas</i>	Berne:A3; BoCC5:Amber; BirdsDir:A2.2	7	30/04/2013		TQ67 (TQ67K)	01/06/1989	Y
Wood Pigeon	<i>Columba palumbus</i>	BirdsDir:A2.1; BoCC5:Amber	3	01/06/1989	11/03/2014	TQ67 (TQ67K)	01/06/1989	Y
Collared Dove	<i>Streptopelia decaocto</i>	Berne:A3; BirdsDir:A2.2	4	01/06/1989	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Turtle Dove	<i>Streptopelia turtur</i>	BAP; Berne:A3; BoCC5:Red; Bonn:A2; ECCITES:A; BirdsDir:A2.2; KRDB2; S41	3	25/05/2013		TQ67 (TQ67K)	01/06/1989	N
Ring-necked Parakeet	<i>Psittacula krameri</i>	Berne:A3; ECCITES:C	2	30/04/2013	11/03/2014	Istead Rise (TQ6370)	11/03/2014	N
Cuckoo	<i>Cuculus canorus</i>	BAP; Berne:A3; BoCC5:Red; S41; KRDB2	6	30/04/2013		TQ67 (TQ67K)	01/06/1989	Y
Little Owl	<i>Athene noctua</i>	Berne:A2; ECCITES:A	3	01/06/1968	27/08/2019	TQ67 (TQ67K)	01/06/1968	Y
Swift	<i>Apus apus</i>	Berne:A3; BoCC5:Red	3	01/06/1989	20/08/2010	TQ67 (TQ67K)	01/06/1989	Y
Green Woodpecker	<i>Picus viridis</i>	Berne:A2; BoCC5:Green	4	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1968	N
Great Spotted Woodpecker	<i>Dendrocopus major</i>	Berne:A2; BoCC5:Green	3	30/04/2013	08/01/2018	TQ67 (TQ67K)	01/06/1968	Y
Skylark	<i>Alauda arvensis</i>	BAP; Berne:A3; BoCC5:Red; BirdsDir:A2.2; KRDB2; S41	3	16/04/2008		TQ67 (TQ67K)	01/06/1989	Y
Swallow	<i>Hirundo rustica</i>	Berne:A2; BoCC5:Green	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
House Martin	<i>Delichon urbica</i>	Berne:A2; BoCC5:Red	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Yellow Wagtail	<i>Motacilla flava</i>	BAP; Berne:A2; BoCC5:Red; S41; KRDB2	1	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Pied Wagtail	<i>Motacilla alba yarrellii</i>	Berne:A2; BoCC5:Green (subsp. Amber)	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Wren	<i>Troglodytes troglodytes</i>	Berne:A2; BoCC5:Amber	5	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Dunnock	<i>Prunella modularis</i>	BAP; Berne:A2; BoCC5:Amber; S41	3	30/04/2013		TQ67 (TQ67K)	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?
Robin	<i>Erithacus rubecula</i>	Berne:A2; Bonn:A2	5	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Stonechat	<i>Saxicola torquata</i>	Berne:A2; Bonn:A2; KRDB1	1	19/06/2008		Singlewell (Gravesend) (TQ655708)	19/06/2008	N
Wheatear	<i>Oenanthe oenanthe</i>	Berne:A2; BoCC5:Amber; Bonn:A2; KRDB1	1	18/05/2005		Istead Rise (TQ6370)	18/05/2005	N
Blackbird	<i>Turdus merula</i>	Berne:A3; BirdsDir:A2.2	7	30/04/2013	02/03/2018	TQ67 (TQ67K)	01/06/1989	Y
Fieldfare	<i>Turdus pilaris</i>	Berne:A3; BoCC5:Red; BirdsDir:A2.2; WCA1	1		02/03/2018	Singlewell (Gravesend) (TQ655708)	02/03/2018	N
Song Thrush	<i>Turdus philomelos</i>	BAP; Berne:A3; BoCC5:Amber; BirdsDir:A2.2; KRDB2; S41	4	30/04/2013	02/03/2018	TQ67 (TQ67K)	01/06/1989	Y
Redwing	<i>Turdus iliacus</i>	Berne:A3; BoCC5:Amber; BirdsDir:A2.2; WCA1	1		02/03/2018	Singlewell (Gravesend) (TQ655708)	02/03/2018	N
Mistle Thrush	<i>Turdus viscivorus</i>	Berne:A3; BoCC5:Red; BirdsDir:A2.2	3	30/04/2013		TQ67 (TQ67K)	01/06/1989	Y
Lesser Whitethroat	<i>Sylvia curruca</i>	Berne:A2	1	01/06/1989		TQ67 (TQ67K)	01/06/1989	N
Whitethroat	<i>Sylvia communis</i>	Berne:A2; BoCC5:Amber	3	30/04/2013		TQ67 (TQ67K)	01/06/1989	Y
Blackcap	<i>Sylvia atricapilla</i>	Berne:A2	4	30/04/2013	16/02/2018	TQ67 (TQ67K)	01/06/1989	Y
Chiffchaff	<i>Phylloscopus collybita</i>	Berne:A2	3	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	N
Willow Warbler	<i>Phylloscopus trochilus</i>	Berne:A2; BoCC5:Amber	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Spotted Flycatcher	<i>Muscicapa striata</i>	BAP; Berne:A2; BoCC5:Red; Bonn:A2; KRDB2; S41	1	01/06/1968		TQ67 (TQ67K)	01/06/1968	Y
Long-tailed Tit	<i>Aegithalos caudatus</i>	Berne:A3; BoCC5:Green (subsp. Amber)	3	30/04/2013	08/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Blue Tit	<i>Parus caeruleus</i>	Berne:A2; BoCC5:Green (subsp. Amber)	5	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Great Tit	<i>Parus major</i>	Berne:A2	5	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y

Nuthatch	<i>Sitta europaea</i>	Berne:A2	1	30/04/2013		Istead Rise (TQ6370)	30/04/2013	N
Treecreeper	<i>Certhia familiaris</i>	Berne:A2; BoCC5:Green (subsp. Amber)	2	30/04/2013		TQ67 (TQ67K)	01/06/1968	Y
Jay	<i>Garrulus glandarius</i>	BoCC5:Green (subsp. Amber); BirdsDir:A2.2	3	30/04/2013		TQ67 (TQ67K)	01/06/1989	N
Magpie	<i>Pica pica</i>	BirdsDir:A2.2	4	30/04/2013	11/03/2014	TQ67 (TQ67K)	01/06/1989	Y
Jackdaw	<i>Corvus monedula</i>	BirdsDir:A2.2	1	01/06/1968		TQ67 (TQ67K)	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?
Rook	<i>Corvus frugilegus</i>	BirdsDir:A2.2; BoCC5:Amber	1	30/04/2013		Istead Rise (TQ6370)	30/04/2013	N
Carrion Crow	<i>Corvis corone corone</i>	BirdsDir:A2.2	3	01/06/1989	11/03/2014	TQ67 (TQ67K)	01/06/1989	Y
Starling	<i>Sturnus vulgaris</i>	BAP; BoCC5:Red; BirdsDir:A2.2; S41; KRDB2	7	30/04/2013	02/03/2018	TQ67 (TQ67K)	01/06/1989	Y
House Sparrow	<i>Passer domesticus</i>	BAP; BoCC5:Red; KRDB2; S41	3	01/06/1989	11/03/2014	TQ67 (TQ67K)	01/06/1989	Y
Tree Sparrow	<i>Passer montanus</i>	BAP; Berne:A3; BoCC5:Red; KRDB2; S41	1	01/06/1968		TQ67 (TQ67K)	01/06/1968	Y
Chaffinch	<i>Fringilla coelebs</i>	Berne:A3; BoCC5:Green (subsp. Amber)	6	30/04/2013	02/03/2018	TQ67 (TQ67K)	01/06/1989	Y
Greenfinch	<i>Carduelis chloris</i>	Berne:A2; BoCC5:Red	4	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Goldfinch	<i>Carduelis carduelis</i>	Berne:A2; BoCC5:Green (subsp. Amber)	5	30/04/2013	12/01/2018	TQ67 (TQ67K)	01/06/1989	Y
Linnet	<i>Carduelis cannabina</i>	BAP; Berne:A2; BoCC5:Red; KRDB2; S41	5	30/04/2013		TQ67 (TQ67K)	01/06/1989	Y
Lesser Redpoll	<i>Carduelis cabaret</i>	BAP; Berne:A3; BoCC5:Red; KRDB1; S41	1	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Bullfinch	<i>Pyrrhula pyrrhula</i>	BAP; Berne:A3; BoCC5:Amber; S41	2	01/06/1989		TQ67 (TQ67K)	01/06/1989	Y
Yellowhammer	<i>Emberiza citrinella</i>	BAP; Berne:A2; BoCC5:Red; KRDB2; S41	3	24/07/2016		TQ67 (TQ67K)	01/06/1989	Y
Corn Bunting	<i>Miliaria calandra</i>	BAP; Berne:A3; BoCC5:Red; KRDB2; S41	2	16/04/2008		TQ67 (TQ67K)	01/06/1989	Y

Appendix 2 Summary of existing information supplied by KMBRC (excluding bats) (cont.)
Conservation Concern Species Inventory

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Scandix pecten-veneris</i>	Shepherd's-needle	UKBAP_P, NERC_S.41	SR00014500003L7Z	1919	TQ67	Northfleet, near Northfleet
<i>Sium latifolium</i>	Greater Water-parsnip	Status-NS, UKBAP_P, NERC_S.41	SR00014500000QAT	1837	TQ67	Northfleet nr
<i>Muscari neglectum</i>	Grape-hyacinth	Status-NR, UKBAP_P, NERC_S.41	SR000279000007PJ	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Neotinea ustulata</i>	Burnt Orchid	Status-NS, UKBAP_P, NERC_S.41	SR00014500000QHJ	1899	TQ67	Gravesend
<i>Orchis anthropophora</i>	Man Orchid	Status-NS, UKBAP_P, NERC_S.41	SR00014500000Q8Y	1724	TQ67	Northfleet
<i>Centaurea cyanus</i>	Cornflower	UKBAP_P, NERC_S.41	SR00014500003N1P	1982	TQ67G	Northfleet
<i>Minuartia hybrida</i>	Fine-leaved Sandwort	Status-NS, UKBAP_P, NERC_S.41	SR00014500000Q9P	1825	TQ67	Southfleet
<i>Carex divisa</i>	Divided Sedge	Status-NS, UKBAP_P, NERC_S.41	SR00014500000QC3	1851	TQ67	Gravesend nr
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QC6	1852	TQ67	Northfleet nr
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QD8	1867	TQ67	Gravesend-Shorne Battery
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QE9	1876	TQ67	Gravesend nr
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QFO	1891	TQ67	Northfleet Marshes
<i>Puccinellia fasciculata</i>	Borrer's Saltmarsh-grass	Status-NS, UKBAP_P, NERC_S.41	SR00027900000CPZ	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Praestigia duffeyi</i>	Duffey's Bell-head Spider	RedList_GB_Pre94-R, UKBAP_P, NERC_S.41	SR00026600009B5Q	12/06/2004	TQ67F	
<i>Lucanus cervus</i>	Stag Beetle	Notable-B, UKBAP_P, NERC_S.41	SR0001450000R874	09/07/2002	TQ6371	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R877	16/06/2002	TQ6371	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R871	16/06/2002	TQ637719	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R8EF	2006	TQ6472	
<i>Lucanus cervus</i>	Stag Beetle	"	SR000279000007QS	24/06/1991	TQ67K	TQ67K - Singlewell
<i>Lucanus cervus</i>	Stag Beetle	"	SR000266000041LO	24/06/1991	TQ67K	Singlewell
<i>Lucanus cervus</i>	Stag Beetle	"	SR000266000045BI	15/06/1993	TQ67L	Gravesend (south)
<i>Coenonympha pamphilus</i>	Small Heath	UKBAP_P, NERC_S.41	SR000279000003UW	12/09/1990	TQ67K	TQ67K - Shinglewell
<i>Lasiommata megera</i>	Wall	UKBAP_P, NERC_S.41	SR000279000003UQ	05/05/1990	TQ67K	TQ67K - Shinglewell
<i>Lasiommata megera</i>	Wall	"	SR000279000003VL	05/05/1990	TQ67L	TQ67L - Gravesend
<i>Bombus sylvarum</i>	Shrill Carder Bee	Notable-B, UKBAP_P, NERC_S.41	DSS0041900000JWR	15/08/2009	TQ67	Shorne Marshes
<i>Bufo bufo</i>	Common Toad	UKBAP_P, NERC_S.41	SR0001450004NAIZ	08/03/1991	TQ6472	Gravesend
<i>Bufo bufo</i>	Common Toad	"	SR000279000003VE	08/03/1991	TQ67L	TQ67L - Gravesend
<i>Bufo bufo</i>	Common Toad	"	SR000266000040WP	08/03/1991	TQ67L	Gravesend (south)
<i>Anguis fragilis</i>	Slow-worm	UKBAP_P, NERC_S.41	DSS0041900000JWA	15/08/2009	TQ67	Shorne Marshes
<i>Anguis fragilis</i>	Slow-worm	"	SR00026600003R8O	1981 - 1990	TQ67L	Gravesend (south)
<i>Zootoca vivipara</i>	Common Lizard	UKBAP_P, NERC_S.41	SR0001450004MV5D	16/06/2018	TQ63907153	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV56	01/06/2018	TQ63907153	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5E	16/06/2018	TQ63917162	Land at Coldharbour Road, Gravesend

<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV57	01/06/2018	TQ63927159	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MSEI	2019	TQ639715	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MSEJ	2019	TQ639715	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5A	09/06/2018	TQ64007148	Land at Coldharbour Road, Gravesend

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5C	16/06/2018	TQ64007148	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5B	09/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5F	16/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV58	01/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV59	05/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	DSS0041900000JVQ	15/08/2009	TQ67	Shorne Marshes
<i>Natrix helvetica</i>	Grass Snake	UKBAP_P, NERC_S.41	SR00026600003R8N	1981 - 1990	TQ67L	Gravesend (south)
<i>Erinaceus europaeus</i>	West European Hedgehog	UKBAP_P, NERC_S.41	SR000405000000PD	29/07/1991	TQ6470	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500000092	16/05/1969	TQ6471	Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000PA	17/07/1991	TQ6472	Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000039M3	22/05/2000	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003AXK	16/07/2000	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000358O	05/03/1999	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003D2V	03/06/2001	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003BMM	07/08/2000	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600004983	11/05/1995	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000279000003U8	29/07/1991	TQ67K	TQ67K - Shinglewell

<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000421S	29/07/1991	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000279000003VD	17/07/1991	TQ67L	TQ67L - Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000041U1	17/07/1991	TQ67L	Gravesend (south)
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600002TS6	06/03/1996	TQ67L	Gravesend (south)
<i>Lepus europaeus</i>	Brown Hare	UKBAP_P, NERC_S.41	SR0004050000029W	30/04/1964	TQ6472	Gravesend

Appendix 2 Summary of existing information supplied by KMBRC (excluding bats) (cont.)
Protected Species Inventory

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Galanthus nivalis</i>	Snowdrop	ECH_V, CITES	SR00026600007KME	18/02/2000	TQ67K	Singlewell
<i>Hyacinthoides non-scripta</i>	Bluebell	WCA8	SR00026600007WS3	1991 - 1998	TQ67F	Northfleet Green
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00027900000CGI	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00027900000CNK	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Hyacinthoides non-scripta</i>	Bluebell	"	SR00026600007KM7	18/02/2000	TQ67K	Singlewell
<i>Ruscus aculeatus</i>	Butcher's-broom	ECH_V	SR00027900000CJP	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Ruscus aculeatus</i>	Butcher's-broom	"	SR00026600008EIH	1991 - 1999	TQ67K	Singlewell
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	CITES	SR0001450003C2XY	12/06/2017	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	CITES	SR0001450003C2XW	12/06/2017	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Neotinea ustulata</i>	Burnt Orchid	CITES	SR00014500000QHJ	1899	TQ67	Gravesend
<i>Ophrys apifera</i>	Bee Orchid	CITES	SR0001450001N0PS	15/06/2015	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Ophrys apifera</i>	Bee Orchid	"	SR0001450003C2Y1	12/06/2017	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Orchis anthropophora</i>	Man Orchid	CITES	SR00014500000Q8Y	1724	TQ67	Northfleet
<i>Orchis purpurea</i>	Lady Orchid	CITES	SR00014500000Q8X	1724	TQ67	Northfleet
<i>Gnaphalium luteoalbum</i>	Jersey Cudweed	WCA8	SR0001450004SAU6	18/09/2022	TQ6472	Gravesend - Woodlands Park
<i>Lucanus cervus</i>	Stag Beetle	ECH_II, Bern_III, WCA5(p)	SR0001450000R874	09/07/2002	TQ6371	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R877	16/06/2002	TQ6371	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R871	16/06/2002	TQ637719	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R8EF	2006	TQ6472	
<i>Lucanus cervus</i>	Stag Beetle	"	SR000266000041LO	24/06/1991	TQ67K	Singlewell
<i>Lucanus cervus</i>	Stag Beetle	"	SR000279000007QS	24/06/1991	TQ67K	TQ67K - Singlewell
<i>Lucanus cervus</i>	Stag Beetle	"	SR000266000045BI	15/06/1993	TQ67L	Gravesend (south)
<i>Bufo bufo</i>	Common Toad	WCA5(p)	SR0001450004NAIZ	08/03/1991	TQ6472	Gravesend
<i>Bufo bufo</i>	Common Toad	"	SR000266000040WP	08/03/1991	TQ67L	Gravesend (south)
<i>Bufo bufo</i>	Common Toad	"	SR000279000003VE	08/03/1991	TQ67L	TQ67L - Gravesend

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Rana temporaria</i>	Common Frog	ECH_V, Bern_III, WCA5(p)	SR0001450004NMNP	03/03/2007	TQ634721	[Private Address]
<i>Rana temporaria</i>	Common Frog	"	SR0001450004NA9E	03/03/2021	TQ6469071186	Residential area
<i>Anguis fragilis</i>	Slow-worm	Bern_III, WCA5(p)	DSS0041900000JWA	15/08/2009	TQ67	Shorne Marshes
<i>Anguis fragilis</i>	Slow-worm	"	SR00026600003R8O	1981 - 1990	TQ67L	Gravesend (south)
<i>Zootoca vivipara</i>	Common Lizard	Bern_III, WCA5(p)	SR0001450004MV5D	16/06/2018	TQ63907153	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV56	01/06/2018	TQ63907153	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5E	16/06/2018	TQ63917162	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV57	01/06/2018	TQ63927159	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MSEI	2019	TQ639715	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MSEJ	2019	TQ639715	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5A	09/06/2018	TQ64007148	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5C	16/06/2018	TQ64007148	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5F	16/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV5B	09/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV58	01/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	SR0001450004MV59	05/06/2018	TQ64057155	Land at Coldharbour Road, Gravesend
<i>Zootoca vivipara</i>	Common Lizard	"	DSS0041900000JVQ	15/08/2009	TQ67	Shorne Marshes
<i>Natrix helvetica</i>	Grass Snake	Bern_III, WCA5(p)	SR00026600003R8N	1981 - 1990	TQ67L	Gravesend (south)
<i>Meles meles</i>	Eurasian Badger†	Bern_III, Badger Act	SR000145000081MS	03/10/2005	TQ640705	A227 near Istead Rise
<i>Meles meles</i>	Eurasian Badger	"	SR00026600003JSF	03/10/2003	TQ67F	Northfleet Green
<i>Mustela erminea</i>	Stoat	Bern_III	SR000266000098DB	20/08/2004	TQ67K	
<i>Erinaceus europaeus</i>	West European Hedgehog	Bern_III	SR000405000000PD	29/07/1991	TQ6470	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500000092	16/05/1969	TQ6471	Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000PA	17/07/1991	TQ6472	Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003D2V	03/06/2001	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000358O	05/03/1999	TQ67G	Northfleet

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000039M3	22/05/2000	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003AXK	16/07/2000	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003BMM	07/08/2000	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600004983	11/05/1995	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000421S	29/07/1991	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000279000003U8	29/07/1991	TQ67K	TQ67K - Shinglewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000279000003VD	17/07/1991	TQ67L	TQ67L - Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000041U1	17/07/1991	TQ67L	Gravesend (south)
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600002TS6	06/03/1996	TQ67L	Gravesend (south)

Appendix 2 Summary of existing information supplied by KMBRC (excluding bats) (cont.)
Kent Rare & Scarce Species Inventory

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Chara globularis</i>	Chara globularis	Kent RDB2	SR00014500007SE2	1829	TQ67	Northfleet Brooks
<i>Chara virgata</i>	Delicate Stonewort	Kent RDB2	SR00014500007T3A	1830	TQ67	Northfleet Brooks
<i>Pinus sylvestris</i>	Scots Pine	NS-excludes	SR00014500000RQX	1971	TQ67	Swanscombe
<i>Scandix pecten-veneris</i>	Shepherd's-needle	Kent RDB3, RedList_ENG_post2001-EN, RedList_GB_post2001-CR	SR00014500003L7Z	1919	TQ67	Northfleet, near Northfleet
<i>Sium latifolium</i>	Greater Water-parsnip	NS-excludes, RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00014500000QAT	1837	TQ67	Northfleet nr
<i>Muscari neglectum</i>	Grape-hyacinth	NR-excludes	SR000279000007PJ	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Scilla autumnalis</i>	Autumn Squill	NS-excludes	SR00014500000Q9H	1809	TQ67	Chalk
<i>Scilla autumnalis</i>	Autumn Squill	"	SR00014500000QA3	1829	TQ67	Shorne
<i>Neotinea ustulata</i>	Burnt Orchid	Kent RDB1, NS-excludes, RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00014500000QHQ	1899	TQ67	Gravesend
<i>Orchis anthropophora</i>	Man Orchid	NS-excludes, RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00014500000Q8Y	1724	TQ67	Northfleet

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Orchis purpurea</i>	Lady Orchid	NS-excludes, RedList_ENG_post20 01-VU, RedList_GB_post2001- VU	SR00014500000Q8X	1724	TQ67	Northfleet
<i>Carlina vulgaris</i>	Carlina Thistle	RedList_ENG_post20 01-NT	SR00027900000CMK	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Centaurea cyanus</i>	Cornflower	Kent RDB1	SR00014500003N1P	1982	TQ67G	Northfleet
<i>Cichorium intybus</i>	Chicory	RedList_ENG_post20 01-VU	SR0001450001MSL6	28/10/2015	TQ6570	Singlewell south
<i>Cichorium intybus</i>	Chicory	"	SR0001450003C7UK	07/09/2017	TQ6570	Singlewell south
<i>Cichorium intybus</i>	Chicory	"	SR0001450003TP3I	27/12/2018	TQ6571	Singlewell north
<i>Cichorium intybus</i>	Chicory	"	SR00026600007WSI	1991 - 1998	TQ67F	Northfleet Green
<i>Cichorium intybus</i>	Chicory	"	SR00027900000CFY	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Cichorium intybus</i>	Chicory	"	SR00027900000CY8	1971 - 1980	TQ67K	Tetrad TQ67K - Singlewell
<i>Cichorium intybus</i>	Chicory	"	SR00026600008EIL	1991 - 1999	TQ67K	Singlewell
<i>Filago vulgaris</i>	Common Cudweed	RedList_ENG_post20 01-NT, RedList_GB_post2001- NT	SR0001450000S0YI	13/07/2011	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Filago vulgaris</i>	Common Cudweed	"	SR00026600007Q0X	08/07/2004	TQ67K	Singlewell
<i>Gnaphalium luteoalbum</i>	Jersey Cudweed	Kent RDB1	SR0001450004SAU6	18/09/2022	TQ6472	Gravesend - Woodlands Park
<i>Camelina sativa</i>	Gold-of-pleasure	NS-excludes	SR000279000007OI	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Chenopodium Chenopodioides</i>	Saltmarsh Goosefoot	NS-excludes	SR00014500000NYV	1995	TQ67	TQ67 North Kent Marshes
<i>Cerastium brachypetalum</i>	Grey Mouse-ear	Kent RDBK	SR000279000007PN	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Minuartia hybrida</i>	Fine-leaved Sandwort	Kent RDB1, NS- excludes, RedList_ENG_post20 01-EN, RedList_GB_post2001- EN	SR00014500000Q9P	1825	TQ67	Southfleet
<i>Knautia arvensis</i>	Field Scabious	RedList_ENG_post20 01-NT	SR0001450003Z45Y	18/07/2019	TQ6471	Northfleet - Watling Street - Wrotham Road

<i>Knautia arvensis</i>	Field Scabious	"	SR0001450003C7VA	07/09/2017	TQ6570	Singlewell south
<i>Knautia arvensis</i>	Field Scabious	"	SR00027900000CHM	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Knautia arvensis</i>	Field Scabious	"	SR00027900000CZP	1971 - 1980	TQ67K	Tetrad TQ67K - Singlewell
<i>Valerianella dentata</i>	Narrow-fruited Cornsalad	RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00027900000CL3	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Lathyrus aphaca</i>	Yellow Vetchling	NS-excludes, RedList_ENG_post20 01-VU, RedList_GB_post2001- VU	SR00014500003N4W	1983	TQ67	Northfleet, Ebbsfleet near Northfleet Brooks
<i>Lathyrus aphaca</i>	Yellow Vetchling	"	SR00014500003NP9	1988	TQ67	Northfleet
<i>Lathyrus aphaca</i>	Yellow Vetchling	"	SR00014500003O8P	1993	TQ67	Northfleet, Ebbsfleet Valley
<i>Lathyrus aphaca</i>	Yellow Vetchling	"	SR00014500003L1K	16/10/1979	TQ67	Northfleet
<i>Lathyrus aphaca</i>	Yellow Vetchling	"	SR00014500003M8Q	1965	TQ67G	Northfleet
<i>Lathyrus aphaca</i>	Yellow Vetchling	"	SR000279000007PM	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Medicago minima</i>	Bur Medick	NS-excludes, RedList_ENG_post20 01-VU, RedList_GB_post2001- VU	SR00027900000CI7	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Medicago minima</i>	Bur Medick	"	SR00014500003MP8	1978	TQ67G	Southfleet, near Southfleet
<i>Medicago polymorpha</i>	Toothed Medick	NS-excludes	SR00027900000CI8	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Medicago polymorpha</i>	Toothed Medick	"	SR00027900000CP2	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Medicago polymorpha</i>	Toothed Medick	"	SR00014500003MP9	1978	TQ67G	Southfleet, near Southfleet
<i>Medicago polymorpha</i>	Toothed Medick	"	SR00027900000D6C	1971 - 1980	TQ67L	Tetrad TQ67L - South Gravesend
<i>Onobrychis viciifolia</i>	Sainfoin	RedList_ENG_post20 01-VU, RedList_GB_post2001- VU	SR0001450002HFKW	10/06/2016	TQ6371	Northfleet - New House south
<i>Onobrychis viciifolia</i>	Sainfoin	"	SR0001450000RX7A	13/07/2011	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Onobrychis viciifolia</i>	Sainfoin	"	SR00026600008E7E	1991 - 1999	TQ67G	Northfleet
<i>Trifolium fragiferum</i>	Strawberry Clover	RedList_ENG_post20 01-VU, RedList_GB_post2001- VU	SR0001450000RZLT	13/07/2011	TQ6570	Singlewell south
<i>Trifolium fragiferum</i>	Strawberry Clover	"	SR0001450003C7US	07/09/2017	TQ6570	Singlewell south
<i>Trifolium fragiferum</i>	Strawberry Clover	"	DSS0041900000JX7	15/08/2009	TQ67	Shorne Marshes
<i>Trifolium glomeratum</i>	Clustered Clover	NS-excludes	SR00014500000R1E	1952	TQ67	Shorne

<i>Trifolium ochroleucon</i>	Sulphur Clover	NS-excludes, RedList_ENG_post20 01-VU, RedList_GB_post2001- VU	SR0001450000Q8T	1666	TQ67	Gadshill-Northfleet
<i>Trifolium squamosum</i>	Sea Clover	NS-excludes	DSS0041900000JWK	15/08/2009	TQ67	Shorne Marshes
<i>Trifolium squamosum</i>	Sea Clover	"	SR00014500003L70	1910	TQ67	Northfleet

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Galium parisiense</i>	Wall Bedstraw	Kent RDB2, NS-excludes, RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00026600007P79	03/10/2003	TQ67F	Northfleet Green
<i>Mentha arvensis</i>	Corn Mint	RedList_ENG_post2001-NT	SR00027900000CIC	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Mentha arvensis</i>	Corn Mint	"	SR00027900000D0C	1971 - 1980	TQ67K	Tetrad TQ67K - Singlewell
<i>Mentha arvensis</i>	Corn Mint	"	SR00026600007Q0A	08/07/2004	TQ67K	Singlewell
<i>Euphrasia nemorosa</i>	Common Eyebright	RedList_ENG_post2001-NT	SR00027900000CNV	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Plantago media</i>	Hoary Plantain	RedList_ENG_post2001-NT	SR0001450000SA0F	13/07/2011	TQ6470	Singlewell west
<i>Plantago media</i>	Hoary Plantain	"	SR000266000008E1	1991 - 1999	TQ67K	Singlewell
<i>Plantago media</i>	Hoary Plantain	"	SR00027900000D0V	1971 - 1980	TQ67K	Tetrad TQ67K - Singlewell
<i>Verbascum lychnitis</i>	White Mullein	NS-excludes	SR00014500000Q9L	1822	TQ67	Gravesend nr
<i>Euphorbia cyparissias</i>	Cypress Spurge	Kent RDB2	SR00014500003SX4	2000	TQ67	Northfleet
<i>Euphorbia cyparissias</i>	Cypress Spurge	"	SR000279000003WK	1971 - 1980	TQ67L	TQ67L - Gravesend
<i>Euphorbia exigua</i>	Dwarf Spurge	RedList_ENG_post2001-VU, RedList_GB_post2001-VU	SR00027900000CGR	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Euphorbia exigua</i>	Dwarf Spurge	"	SR00027900000CYY	1971 - 1980	TQ67K	Tetrad TQ67K - Singlewell
<i>Althaea officinalis</i>	Marsh-mallow	NS-excludes, RedList_ENG_post2001-NT	SR00014500000Q8I	1597	TQ67	Gravesend
<i>Carex divisa</i>	Divided Sedge	NS-excludes, RedList_GB_post2001-VU	SR00014500000QC3	1851	TQ67	Gravesend nr
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QC6	1852	TQ67	Northfleet nr
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QD8	1867	TQ67	Gravesend-Shorne Battery
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QE9	1876	TQ67	Gravesend nr
<i>Carex divisa</i>	Divided Sedge	"	SR00014500000QFO	1891	TQ67	Northfleet Marshes

<i>Alopecurus bulbosus</i>	Bulbous Foxtail	Kent RDB2, NS-Excludes	SR00014500000Q94	1762	TQ67	Northfleet
<i>Apera spica-venti</i>	Loose Silky-bent	RedList_GB_post2001-NT	SR00014500000QAL	1836	TQ67	Northfleet about
<i>Briza media</i>	Quaking-grass	RedList_ENG_post2001-NT	SR00026600007Q1U	08/07/2004	TQ67K	Singlewell

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Bromus secalinus</i>	Rye Brome	NS-excludes, RedList_ENG_post2001-NT, RedList_GB_post2001-NT	SR00026600007Q1D	08/07/2004	TQ67K	Singlewell
<i>Polypogon monspeliensis</i>	Annual Beard-grass	NS-excludes	SR00014500000QC1	1850	TQ67	Northfleet Hope
<i>Puccinellia fasciculata</i>	Borrer's Saltmarsh-grass	NS-excludes, RedList_ENG_post2001-NT, RedList_GB_post2001-NT	SR00027900000CPZ	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Puccinellia rupestris</i>	Stiff Saltmarsh-grass	NS-excludes	SR00014500000QNW	1945	TQ67	Gravesend
<i>Fumaria parviflora</i>	Fine-leaved Fumitory	NS-excludes, RedList_ENG_post2001-NT, RedList_GB_post2001-VU	SR00014500000QBE	1842	TQ67	Gods Hill-Gravesend
<i>Helleborus foetidus</i>	Stinking Hellebore	NS-excludes	SR0001450001NACN	03/04/2015	TQ6370	Istead Rise north
<i>Fragaria vesca</i>	Wild Strawberry	RedList_ENG_post2001-NT	SR00026600008EAO	1991 - 1999	TQ67G	Northfleet
<i>Fragaria vesca</i>	Wild Strawberry	"	SR00027900000CNZ	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Prunus cerasus</i>	Dwarf Cherry	RedList_ENG_post2001-NT	SR000279000003RF	1971 - 1980	TQ67F	TQ67F - Northfleet Green
<i>Sedum forsterianum</i>	Rock Stonecrop	NS-excludes	SR00014500003M35	1962	TQ67	Northfleet, in chalkpit by path
<i>Sedum forsterianum</i>	Rock Stonecrop	"	SR000279000007Q8	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Lithospermum arvense</i>	Field Gromwell	RedList_ENG_post2001-EN, RedList_GB_post2001-EN	SR00027900000D60	1971 - 1980	TQ67L	Tetrad TQ67L - South Gravesend
<i>Praestigia duffeyi</i>	Duffey's Bell-head Spider	Kent RDB2, NR- includes, RedList_GB_post2001-EN	SR00026600009B5Q	12/06/2004	TQ67F	

<i>Forficula lesnei</i>	Lesne's Earwig	NS-includes	SR000279000003UL	19/09/1987	TQ67K	TQ67K - Shinglewell
<i>Telmatophilus brevicollis</i>	Telmatophilus brevicollis	Kent RDB2, RedList_GB_Pre94-R	SR000145000462P5	1950 - 1955	TQ67	Higham Marshes, Gravesend
<i>Telmatophilus typhae</i>	Telmatophilus typhae	RedList_GB_Pre94- Insu	SR000145000462P7	1950 - 1955	TQ67	Higham Marshes, Gravesend
<i>Anthonomus chevrolati</i>	Anthonomus chevrolati	RedList_GB_Pre94- Insu	SR00014500045QOT	01/01/1945 - 11/12/1945	TQ67	Gravesend

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Bagous tempestivus</i>	Bagous tempestivus	Notable-B	SR00014500045RUY	19/04/1867	TQ67	Gravesend
<i>Bagous tubulus</i>	Bagous tubulus	Kent RDB2, RedList_GB_Pre94- VU	SR00014500045TTJ	03/06/2000	TQ67	Shorne Marshes
<i>Bagous tubulus</i>	Bagous tubulus	"	SR0001450004686Z	03/06/2000	TQ67	Shorne Marshes
<i>Mecinus collaris</i>	Mecinus collaris	Notable-B	SR00014500045S3A	01/01/1847 - 31/12/1847	TQ67	Gravesend
<i>Mecinus collaris</i>	Mecinus collaris	"	SR00014500045S3B	01/05/1851 - 31/05/1851	TQ67	Gravesend
<i>Limnoxenus niger</i>	Limnoxenus niger	RedList_GB_post2001- NT	SR000145000461UQ	28/09/1931	TQ67	Gravesend, marshes beyond Port of
<i>Limnoxenus niger</i>	Limnoxenus niger	"	SR000145000464H3	16/04/1927	TQ67	Denton Marshes
<i>Limnoxenus niger</i>	Limnoxenus niger	"	SR000145000464H4	14/04/1934	TQ67	Chalk Marshes
<i>Agabus conspersus</i>	Agabus conspersus	Notable-B, NS- Excludes	SR000145000464Z1	28/09/1931	TQ67	Gravesend, marshes beyond Port of
<i>Rhantus frontalis</i>	Rhantus frontalis	Notable-B, NS- Excludes	SR000145000465RO	01/07/1980	TQ67	Shorne Marshes
<i>Haliphus apicalis</i>	Haliphus apicalis	Notable-B, NS- Excludes	SR00014500045ZH1	01/07/1980	TQ67	Shorne Marshes
<i>Heterocerus flexuosus</i>	Heterocerus flexuosus	NS-excludes	SR000145000463OQ	1828	TQ67	beyond Gravesend
<i>Berosus luridus</i>	Berosus luridus	Notable-B, RedList_GB_post2001- NT	SR000145000468A3	01/07/1980	TQ67	Shorne Marshes
<i>Lucanus cervus</i>	Stag Beetle	Notable-B, NS- Includes	SR0001450000R874	09/07/2002	TQ6371	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R877	16/06/2002	TQ6371	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R871	16/06/2002	TQ637719	
<i>Lucanus cervus</i>	Stag Beetle	"	SR0001450000R8EF	2006	TQ6472	
<i>Lucanus cervus</i>	Stag Beetle	"	SR000266000041LO	24/06/1991	TQ67K	Singlewell
<i>Lucanus cervus</i>	Stag Beetle	"	SR000279000007QS	24/06/1991	TQ67K	TQ67K - Singlewell
<i>Lucanus cervus</i>	Stag Beetle	"	SR000266000045BI	15/06/1993	TQ67L	Gravesend (south)
<i>Pyrochroa coccinea</i>	Black-headed Cardinal Beetle	Notable-B	SR000279000003RP	1971 - 1980	TQ67F	TQ67F - Northfleet Green

<i>Neobisnius procerulus</i>	Neobisnius procerulus	RedList_GB_Pre94- Insu	SR0001450004BOUA	15/05/1912	TQ647714	Gravesend, NW Kent
<i>Tournotaris bimaculate</i>	Tournotaris bimaculata	Notable-B	SR00014500045SFD	01/05/1851 - 31/05/1851	TQ67	Gravesend
<i>Coenonympha pamphilus</i>	Small Heath	RedList_GB_post2001- NT	SR000279000003UW	12/09/1990	TQ67K	TQ67K - Shinglewell
<i>Lasiommata megera</i>	Wall	RedList_GB_post2001- NT	SR000279000003UQ	05/05/1990	TQ67K	TQ67K - Shinglewell

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Lasiommata megera</i>	Wall	"	SR000279000003VL	05/05/1990	TQ67L	TQ67L - Gravesend
<i>Campiglossa malaris</i>	Campiglossa malaris	Kent RDB4, RedList_GB_Pre94- EN	DSS0041900000JX0	15/08/2009	TQ67	Shorne Marshes
<i>Myopites eximius</i>	Myopites eximius	Kent RDB2, RedList_GB_Pre94-R	DSS0041900000JX4	15/08/2009	TQ67	Shorne Marshes
<i>Melieria picta</i>	Melieria picta	Notable	DSS0041900000JX6	15/08/2009	TQ67	Shorne Marshes
<i>Bombus sylvarum</i>	Shrill Carder Bee	Kent RDB2, Notable-B	DSS0041900000JWR	15/08/2009	TQ67	Shorne Marshes
<i>Nomada fucata</i>	Painted Nomad Bee	Notable-A	DSS0041900000JWM	15/08/2009	TQ67	Shorne Marshes
<i>Lasioglossum pauperatum</i>	Squat Furrow Bee	Kent RDB3, RedList_GB_Pre94-R	SR0001450003SBM1	2007	TQ67	Unknown
<i>Erinaceus europaeus</i>	West European Hedgehog	RedList_GB_post2001- VU	SR000405000000PD	29/07/1991	TQ6470	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00040500000092	16/05/1969	TQ6471	Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000405000000PA	17/07/1991	TQ6472	Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000358O	05/03/1999	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003D2V	03/06/2001	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000039M3	22/05/2000	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003AXK	16/07/2000	TQ67G	Northfleet
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600003BMM	07/08/2000	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600004983	11/05/1995	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR0002660000421S	29/07/1991	TQ67K	Singlewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000279000003U8	29/07/1991	TQ67K	TQ67K - Shinglewell
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000279000003VD	17/07/1991	TQ67L	TQ67L - Gravesend
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR000266000041U1	17/07/1991	TQ67L	Gravesend (south)
<i>Erinaceus europaeus</i>	West European Hedgehog	"	SR00026600002TS6	06/03/1996	TQ67L	Gravesend (south)
<i>Lepus europaeus</i>	Brown Hare	Kent RDB2	SR0004050000029W	30/04/1964	TQ6472	Gravesend
<i>Oryctolagus cuniculus</i>	European Rabbit	RedList_Global_post2 001_NT	SR000405000002WI	22/07/1969	TQ6471	Gravesend
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003N0	12/09/1990	TQ67F	Northfleet Green
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600003GTB	06/12/2002	TQ67F	Northfleet Green

<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000266000034Y0	04/12/1998	TQ67F	Northfleet Green
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000279000003QI	12/09/1990	TQ67F	TQ67F - Northfleet Green
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000279000003RV	08/02/1989	TQ67G	TQ67G - Northfleet
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR00026600002WZ6	12/09/1996	TQ67G	Northfleet
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000279000003UH	12/09/1990	TQ67K	TQ67K - Shinglewell
<i>Oryctolagus cuniculus</i>	European Rabbit	"	SR000405000003MY	12/09/1990	TQ67K	Shinglewell

Appendix 2 Summary of existing information supplied by KMBRC (excluding bats) (cont.)
Invasive Non-native Species Inventory

Scientific Name	Common Name	Species Status	KMBRC Key	Date	Grid Ref.	Location
<i>Elodea nuttallii</i>	Nuttall's Waterweed	WCA9ii	DSS0041900000JXG	15/08/2009	TQ67	Shorne Marshes
<i>Heracleum mantegazzianum</i>	Giant Hogweed	WCA9ii	SR00027900000CH9	1971 - 1980	TQ67F	Tetrad TQ67F - Northfleet Green
<i>Hyacinthoides hispanica</i>	Spanish Bluebell	N/A	SR000279000003W7	1971 - 1980	TQ67L	TQ67L - Gravesend
<i>Petasites fragrans</i>	Winter Heliotrope	N/A	SR0001450002HFUP	13/01/2016	TQ6471	Northfleet - Watling Street - Wrotham Road
<i>Petasites fragrans</i>	Winter Heliotrope	"	SR00026600007NSP	06/12/2002	TQ67L	Gravesend (south)
<i>Petasites fragrans</i>	Winter Heliotrope	"	SR00027900000D6M	1971 - 1980	TQ67L	Tetrad TQ67L - South Gravesend
<i>Fallopia japonica</i>	Japanese Knotweed	WCA9ii	SR00027900000CPO	1971 - 1980	TQ67G	Tetrad TQ67G - Northfleet
<i>Fallopia japonica</i>	Japanese Knotweed	"	SR00026600007M12	28/09/2001	TQ67G	Northfleet
<i>Fallopia japonica</i>	Japanese Knotweed	"	SR000266000008EIR	1991 - 1999	TQ67K	Singlewell
<i>Fallopia japonica</i>	Japanese Knotweed	"	SR00027900000D71	1971 - 1980	TQ67L	Tetrad TQ67L - South Gravesend
<i>Robinia pseudoacacia</i>	False-acacia	WCA9ii	SR000279000003R8	1971 - 1980	TQ67F	TQ67F - Northfleet Green
<i>Robinia pseudoacacia</i>	False-acacia	"	SR000279000003UZ	1971 - 1980	TQ67K	TQ67K - Shinglewell
<i>Robinia pseudoacacia</i>	False-acacia	"	SR000279000003WD	1971 - 1980	TQ67L	TQ67L - Gravesend
<i>Cotoneaster simonsii</i>	Himalayan Cotoneaster	WCA9ii	SR000279000007PO	1971 - 1980	TQ67G	TQ67G - Northfleet
<i>Cotoneaster simonsii</i>	Himalayan Cotoneaster	"	SR000279000003WP	1971 - 1980	TQ67L	TQ67L - Gravesend
<i>Ailanthus altissima</i>	Tree-of-heaven	N/A	SR000279000003W6	1971 - 1980	TQ67L	TQ67L - Gravesend
<i>Myriophyllum aquaticum</i>	Parrot's-feather	WCA9ii	SR00026600007WSJ	1991 - 1998	TQ67F	Northfleet Green
<i>Parthenocissus inserta</i>	False Virginia-creeper	WCA9ii	SR000279000003WA	1971 - 1980	TQ67L	TQ67L - Gravesend

Appendix 3 Further guidance pertaining to protected and invasive non-native species

The latest government guidance can be found at the following websites (all accessed April 2024):

General and signposts

<https://www.gov.uk/guidance/protected-species-how-to-review-planning-applications>

Great crested newt

<https://www.gov.uk/guidance/great-crested-newts-advice-for-making-planning-decisions>
and <https://www.gov.uk/guidance/great-crested-newts-protection-surveys-and-licences>

Reptiles

<https://www.gov.uk/guidance/reptiles-advice-for-making-planning-decisions>

Wild birds

<https://www.gov.uk/guidance/wild-birds-advice-for-making-planning-decisions> and
<https://www.gov.uk/guidance/wild-birds-protection-surveys-and-licences>

Bats

<https://www.gov.uk/guidance/bats-advice-for-making-planning-decisions> and
<https://www.gov.uk/guidance/bats-protection-surveys-and-licences>

Water vole

<https://www.gov.uk/guidance/water-voles-advice-for-making-planning-decisions>

Otter

<https://www.gov.uk/guidance/otters-advice-for-making-planning-decisions>

Badger

<https://www.gov.uk/guidance/badgers-advice-for-making-planning-decisions> and
<https://www.gov.uk/guidance/badgers-protection-surveys-and-licences>

Invasive non-native species

<https://www.gov.uk/guidance/prevent-the-spread-of-harmful-invasive-and-non-native-plants>
(selected plant species only) and <https://www.nonnativespecies.org/>