

# Southampton to London Pipeline Project

## Volume 6

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Appendix 7.8: Bird Factual Report

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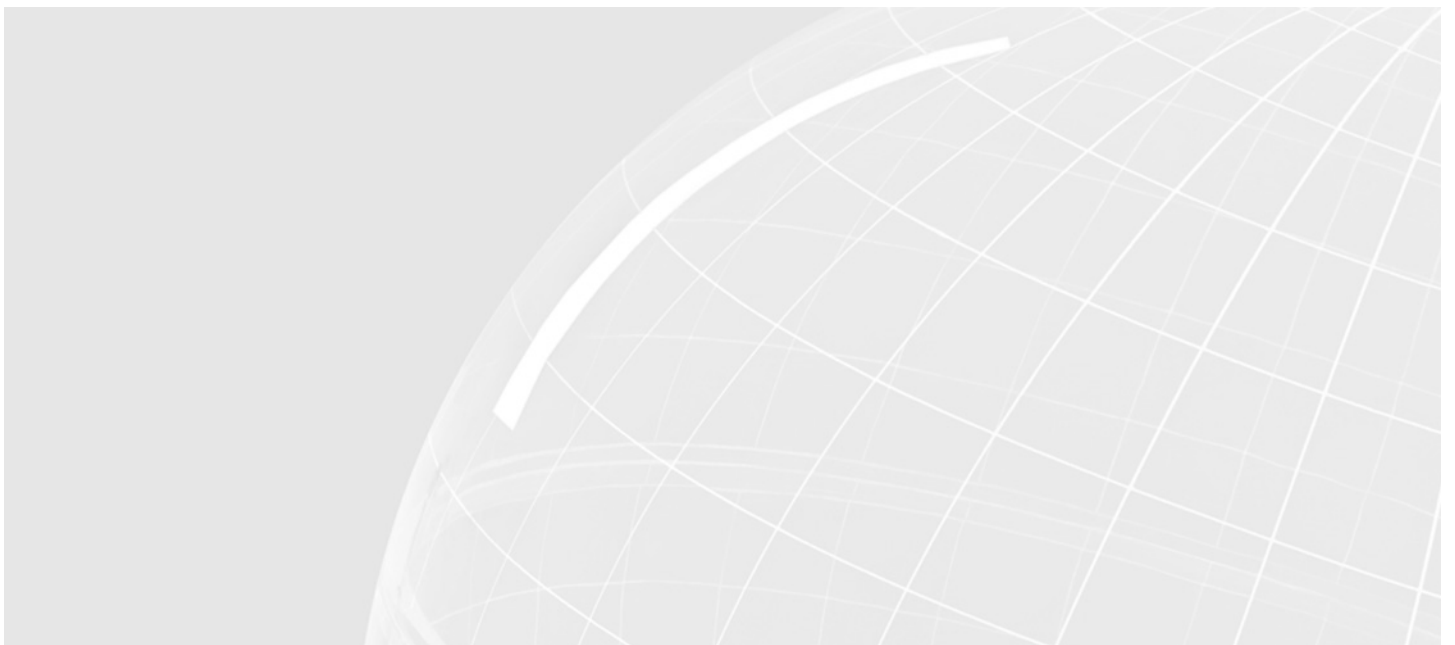
# Southampton to London Pipeline Project

Esso Petroleum Company, Limited

Appendix 7.8: Bird Factual Report

B2325300-JAC-000-ENV-APP-000098

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## Southampton to London Pipeline Project

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## Contents

<b>1</b>	<b>Introduction</b> .....	<b>1</b>
1.1	Overview.....	1
1.2	Notable Bird Species.....	1
<b>2</b>	<b>Methodology</b> .....	<b>1</b>
2.1	Desk Study .....	1
2.2	Incidental Records.....	2
2.3	Limitations .....	2
<b>3</b>	<b>Results</b> .....	<b>3</b>
3.1	Desk Study .....	3
3.2	Incidental Records.....	7
<b>4</b>	<b>Discussion</b> .....	<b>7</b>
4.1	Introduction.....	7
4.2	Habitats .....	8
	<b>References</b> .....	<b>9</b>
	<b>Annex A – Bird Species within the Study Area (2008 Onwards Records)</b> .....	<b>11</b>
	<b>Annex B – Incidental Bird Records (2018)</b> .....	<b>18</b>
	<b>Figures</b> .....	<b>20</b>



# 1 Introduction

## 1.1 Overview

- 1.1.1 Esso Petroleum Company, Limited (Esso) is making an application for development consent to replace 90km (56 miles) of its existing aviation fuel pipeline that runs from the Fawley Refinery near Southampton, to the Esso West London Terminal storage facility in Hounslow. The replacement pipeline is 97km (60 miles) long, and within this report is referred to as 'the project'.
- 1.1.2 This Bird Factual Report has been produced to support the application for development consent under the Planning Act 2008, and the accompanying Environmental Statement (ES).

## 1.2 Notable Bird Species

- 1.2.1 Notable bird species are those which have an increased level of legal protection, are listed on the UK Biodiversity Action Plan (UK BAP), have Local Biodiversity Action Plans in Hampshire or Greater London, are Priority Species (as per Section 41 of the Natural Environment and Rural Communities Act 2006 (NERC)) or are listed as red or amber in Birds of Conservation Concern (BOCC) (Eaton *et al.*, 2015).

# 2 Methodology

## 2.1 Desk Study

- 2.1.1 A data search was requested between January and March 2018 from relevant record centres: Greenspace Information for Greater London (GiGL); Surrey Biodiversity Information Centre (SBIC); and Hampshire Biodiversity Information Centre (HBIC). The search requested data relating to protected and notable bird species, and information for statutory and non-statutory designated sites with birds as a qualifying species and/or in the reason for designation.
- 2.1.2 The study area for data requests is as defined in Chapter 7 Biodiversity.
- 2.1.3 Bird species with the following criteria were deemed 'notable species':
- species listed on Annex 1 of the Birds Directive;
  - species listed under Schedule 1 of the Wildlife and Countryside Act 1981 (WCA), as amended;
  - species of Principal Importance (i.e. Priority Species), listed under Section 41 of the NERC;
  - BOCC Red and Amber list species (Eaton *et al.*, 2015);
  - Hampshire Biodiversity Action Plan (HBAP) species (Hampshire Biodiversity Partnership, 2000); and
  - London Biodiversity Action Plan (London BAP) species (Greater London Authority, 2005).



- 2.1.4 Some records were returned for bird species which are not offered further protection under Schedule 1 of the WCA or listed as a UK BAP species, on Section 41 of the NERC or as a bird of Conservation Concern. These non-notable species are of interest at a more local scale than the county BAPs and are listed as 'Local species of Conservation Concern' in Greater London, and 'County Rare' (CR), 'County Scarce' (CS) or 'County of Interest' (CI) in Hampshire (HBIC, 2016).
- 2.1.5 Species records of 10 years or less were considered relevant to the project. Any records older than this were deemed likely to have become outdated and unlikely to reflect the current baseline condition. Where multiple records of the same species were returned for the same location, only the most recent is included in this review. Bird records were also requested from 2Js Ecology, the organisation undertaking long-term monitoring of the qualifying bird species Dartford warbler (*Sylvia undata*), nightjar (*Caprimulgus europaeus*) and woodlark (*Lullula arborea*) within the Thames Basin Heaths Special Protection Area (SPA), which is intersected by the Order Limits.

## 2.2 Incidental Records

- 2.2.1 Records of notable bird species were made on an ad hoc basis, when observed during field surveys for other species groups.

## 2.3 Limitations

### Desk Study

- 2.3.1 Desk study records were obtained from relevant biodiversity record centres. However, no species records had been returned from SBIC at the point of writing and are not included in this report.
- 2.3.2 The nature of biological recording as a form of 'citizen science' relies on the submission of records by members of the public (some are members of wildlife or bird groups) and ecologists. This can lead to an inherent bias towards recording 'rare' or conspicuous species, and typically common species which may be a local priority species may be under recorded (Pyke and Ehrlich, 2010).
- 2.3.3 The different presentation of records returned by HBIC and GiGL mean that some of these records are not directly comparable. For example, HBIC detail the location of each record, whereas GiGL report this as distance and direction from the study area. Similarly, records from HBIC do not include information relating to the breeding status of species, but GiGL specify the number of observations which were breeding occurrences. Annex A presents all data compiled from both record centres.
- 2.3.4 Of all records returned by GiGL, 16 species are recorded as breeding within 1km of the study area during the last 10 years. This should not be taken as an exhaustive list, as species which are breeding may not have been recorded and recorded species may be breeding.



## Field Survey

- 2.3.5 No field surveys were undertaken to inform this factual report. This approach is deemed appropriate when considering the desk study information available and the potential impact on bird species from the project (Esso, 2018). Impacts associated with pipeline installation are well understood and predictable. Impacts to breeding birds could arise through mortality/injury; habitat loss/gain, fragmentation or modification; or disturbance. Field surveys are not necessary to inform the valuation or impact assessment for breeding birds as good practice measures are proposed that would be sufficient to reduce the risk of impacts to birds.
- 2.3.6 Thirty-seven incidental records of notable bird species have been recorded throughout the year while undertaking alternative ecological surveys. These records (detailed in Annex B) were made on an ad hoc basis and do not fully represent all records of notable birds seen on site. The distance of incidental records from the Order Limits are only applicable where sedentary features such as roosts or bird boxes were found.
- 2.3.7 The limitations listed are not considered to have substantial impact on the robustness of the results, as it is evident that many protected and notable bird species are present within the Order Limits.

## 3 Results

### 3.1 Desk Study

#### Designated Sites

- 3.1.1 There are 16 statutory and 11 non-statutory sites which contain notable or protected bird species as a qualifying feature within 1km of the Order Limits (Figure A7.8.1; Table 3.1). Of these, 11 (seven statutory and four non-statutory) are located within the Order Limits, and one (Eelmoor Marsh Site of Special Scientific Interest (SSSI)) is located immediately adjacent to the Order Limits.

**Table 3.1: Statutory and Non-Statutory Designated Sites Within 1km of the Order Limits Which Have Notable Bird Species as a Qualifying Feature or Notified Interest**

Designated Site (Sites Ordered South to North Within Designation)		Reason for Designation	Approximate Distance and Location Relative to the Project
<b>Statutory Sites</b>			
SPA	Thames Basin Heaths	Supporting populations of European importance during the breeding season: <ul style="list-style-type: none"> <li>• Dartford warbler;</li> <li>• nightjar; and</li> <li>• woodlark.</li> </ul>	Within Order Limits
	South West London Waterbodies	Supporting populations of European importance over winter: <ul style="list-style-type: none"> <li>• gadwall (<i>Anas strepera</i>); and</li> <li>• shoveler (<i>Anas clypeata</i>).</li> </ul>	430m west of Section H





Designated Site (Sites Ordered South to North Within Designation)		Reason for Designation	Approximate Distance and Location Relative to the Project
Ramsar	South West London Waterbodies	Species occurring at levels of international importance: <ul style="list-style-type: none"> <li>species with peak counts in spring/autumn – shoveler; and</li> <li>species with peak counts in winter – gadwall.</li> </ul>	430m west of Esso West London Terminal storage facility
National Nature Reserve (NNR)	Chobham Common	See description for Chobham Common SSSI.	Within Order Limits
	Beacon Hill	The reserve is a good place to encounter many of the declining farmland bird species such as linnets ( <i>Linaria cannabina</i> ) and yellowhammers ( <i>Emberiza citrinella</i> ). Raptors such as the red kite ( <i>Milvus milvus</i> ), buzzard ( <i>Buteo buteo</i> ) and kestrel ( <i>Falco tinnunculus</i> ) can be seen, as well as summer migrants like whitethroat ( <i>Sylvia communis</i> ), willow warbler ( <i>Phylloscopus trochilus</i> ) and blackcap ( <i>Sylvia atricapilla</i> ).	800m east of Section A
SSSI	Bourley and Long Valley	A component SSSI of the Thames Basin Heaths SPA. Supports three particularly vulnerable species on Annex 1 of the Birds Directive: woodlark, nightjar and Dartford warbler. The site also supports a breeding population of hobby ( <i>Falco subbuteo</i> ) which is important in a British context, and on a European basis as a migratory species.	Within Order Limits
	Basingstoke Canal	Although the SSSI is not specifically designated for birds, the site citation declares the site supports locally important populations of little grebe ( <i>Tachybaptus ruficollis</i> ) kingfisher ( <i>Alcedo atthis</i> ) and grey wagtail ( <i>Motacilla cinerea</i> ).	Within Order Limits
	Fleet Pond	Although the site is not specifically designated for birds, it supports substantial breeding populations of reed warbler ( <i>Acrocephalus scirpaceus</i> ) and some other wetland birds and is an autumn and winter wildfowl resort for substantial numbers of both surface feeding and diving ducks.	590m northwest of logistics hub at Hartland Park
	Eelmoor Marsh	A component SSSI of the Thames Basin Heaths SPA. Reportable features include Dartford warbler, nightjar and woodlark, although site not specifically designated for their presence.	Immediately adjacent to Order Limits
	Colony Bog and Bagshot Heath	A component SSSI of the Thames Basin Heaths SPA. Supports strong breeding populations of Annex 1 species (Dartford warbler, nightjar and woodlark). Although not specifically cited, the SSSI also supports species of Conservation Concern (hobby, tree pipit ( <i>Anthus trivialis</i> ), meadow pipit ( <i>Anthus pratensis</i> ), reed bunting ( <i>Emberiza schoeniclus</i> ) and yellowhammer).	Within Order Limits
	Chobham Common	A component SSSI of the Thames Basin Heath SPA. Supports nationally important breeding populations of nightjar, woodlark and Dartford warbler. Although not specifically cited, the SSSI also supports an assemblage of over 80 bird species of Conservation Concern including tree pipit, meadow pipit and yellowhammer.	Within Order Limits
	Staines Moor	Component SSSI of South West London Waterbodies SPA. Notified bird features comprise aggregations of non-	430m west of Section H



Designated Site (Sites Ordered South to North Within Designation)		Reason for Designation	Approximate Distance and Location Relative to the Project
		breeding goosander ( <i>Mergus merganser</i> ), pochard ( <i>Aythya ferina</i> ), shoveler and tufted duck ( <i>Aythya fuligula</i> ).	
Local Nature Reserve (LNR)	Fleet Pond	Urban fringe site. 180 species of birds have been seen including reed warbler, kingfisher ( <i>Alcedo atthis</i> ), cormorant ( <i>Phalacrocorax carbo</i> ), common tern ( <i>Sterna hirundo</i> ), heron ( <i>Ardea cinerea</i> ) and great crested grebe ( <i>Podiceps cristatus</i> ) (Natural England, 2018a).	590m northwest of logistics hub at Hartland Park
	Brentmoor Heath	Rural site. Component of Colony Bog and Bagshot Heath SSSI and Thames Basin Heaths SPA.	190m south of Section F
	Chertsey Meads	Urban fringe site. Over 108 species of bird have been recorded including lesser whitethroat ( <i>Sylvia curruca</i> ), reed bunting, sedge warbler ( <i>Acrocephalus schoenobaenus</i> ) and reed warbler.	Within Order Limits
	Bedfont Lakes	Urban site. 156 species of birds including skylark ( <i>Alauda arvensis</i> ), common tern, willow warbler ( <i>Phylloscopus trochilus</i> ), chiffchaff ( <i>Phylloscopus collybita</i> ), whitethroat ( <i>Sylvia communis</i> ), blackcap ( <i>Sylvia atricapilla</i> ), garden warbler ( <i>Sylvia borin</i> ), reed warbler, sedge warbler, linnet ( <i>Linaria cannabina</i> ), bullfinch ( <i>Pyrrhula pyrrhula</i> ), reed bunting and hobby breed on site. Bittern ( <i>Botaurus stellaris</i> ), smew ( <i>Mergus albellus</i> ), pochard, tufted duck, teal ( <i>Anas crecca</i> ), widgeon ( <i>Anas penelope</i> ), shoveler, woodcock ( <i>Scolopax rusticola</i> ), common snipe ( <i>Gallinago gallinago</i> ), cormorant, meadow pipit, lapwing, fieldfare ( <i>Turdus pilaris</i> ), redwing ( <i>Turdus iliacus</i> ) and a roost of about 3,000 corvids in winter (Natural England, 2018b).	790m east of Section H
<b>Non-Statutory Sites</b>			
Site of Nature Conservation Interest (SNCI)	Frimley Hatches	It is one of the best sites in the Blackwater Valley for visiting winter wildfowl.	Within Order Limits
	Chobham Place Woods	The site is an integral part of a larger ecological unit at Chobham. Hobby, stock dove ( <i>Columba oenas</i> ) and lesser spotted woodpecker ( <i>Dendrocopos minor</i> ) have been recorded breeding.	406m north of Section F
	Little Heath	The site's position 0.2km from Chobham Common SSSI may be important for outlying populations of birds.	916m south of Section F
	Simplemarsh Farm	Important area for birds.	32m south of Section G
	Land West of Littleton Lane	Important water bodies for wintering wildfowl, bordering the River Thames.	Within Order Limits
	Shepperton Quarry	Two large bodies bordering the River Thames bisected by M3. Important for wintering wildfowl.	Within Order Limits
	Sheep Walk Lake	Selected as an important wetland supporting bird assemblages of county importance for both wintering and summer breeding birds.	355m east of Section H



Designated Site (Sites Ordered South to North Within Designation)		Reason for Designation	Approximate Distance and Location Relative to the Project
	West of Queen Mary Reservoir	Selected for its importance to wildfowl and visiting seabirds. The site is adjacent to Queen Mary Reservoir.	Within Order Limits
	Queen Mary Reservoir	Selected for its importance to wildfowl and visiting seabirds. The site lies in an important position close to the South West London Waterbodies SPA/Ramsar and adjacent to the Land West of Queen Mary Reservoir SNCI.	309m west of Section H
Site of Metropolitan Interest (SMI)	Bedfont Lakes Country Park	The two former gravel pits, Bedfont Lake and Princes Lake, are of considerable ornithological interest. Bedfont Lake supports large populations of breeding reed warblers in its extensive reed beds, common tern and pochard. Both lakes are important for wintering and passage wildfowl and waders, including regular nationally scarce species such as bittern and smew.	790m east of Section H
Site of Borough Interest (SBI)	Mayfield Farm and Water Treatment Works	Lapwing ( <i>Vanellus vanellus</i> ), reed bunting, linnet and skylark regularly use the site.	160m east of Section H

### Species Records

- 3.1.2 The desk study returned a combined total of 111 bird species within the study area, recorded within the last 10 years. Of these, 102 are of Conservation Concern, with:
- 22 species listed on Annex 1 of the Birds Directive;
  - 34 species listed on Schedule 1 of the Wildlife and Countryside Act 1981, as amended;
  - 41 species listed on BOCC Red list;
  - 38 species listed on HBAP; and
  - 21 species listed on London BAP.
- 3.1.3 Some species may have multiple 'notable' criteria. Records of nine non-notable species were returned. Annex A details combined records of notable and non-notable species.
- 3.1.4 Records of qualifying feature bird species Dartford warbler, nightjar and woodlark from Thames Basin Heaths SPA (2Js Ecology, 2016) are shown in Figures A7.8.2 to A7.8.4.
- 3.1.5 Data shown are the accumulation of annual monitoring from 2008 to 2018 at Bourley and Long Valley SSSI and Eelmoor Marsh SSSI (Figure 7.8.2); Colony Bog and Bagshot Heath SSSI (Figure A7.8.3); and Chobham Common SSSI (Figure A7.8.4).
- 3.1.6 All three qualifying feature bird species are recorded within each of the SSSIs and are recorded using, over time, the majority of the suitable habitats within the sites. The location of occupied territories and/or breeding nests are shown and relate to



the habitat preferences of these species, e.g. heathland habitats for ground nesting species. Nightjar are also known to nest in young conifer plantation and silver birch trees. The presence of these species within the Order Limits is summarised in Table 3.2.

**Table 3.2: Breeding Locations of Qualifying Bird Species in SSSIs of the Thames Basin Heaths SPA Crossed by the Order Limits (■ Denotes Species Record Within the Order Limits)**

Site	Qualifying Bird Species Within the Order Limits		
	Dartford Warbler	Nightjar	Woodlark
Bourley and Long Valley SSSI	-	■	-
Eelmoor Marsh SSSI	-	-	-
Colony Bog and Bagshot Heath SSSI	■	-	-
Chobham Common SSSI	■	■	■

- 3.1.7 Two nightjar territories/breeding nests have been recorded in the Order Limits where they cross the Bourley and Long Valley SSSI. These were recorded in 2011 and 2015 (2Js Ecology, 2016). Records from 2018 appear to be located on woodland edges at least 500m from the Order Limits.
- 3.1.8 Dartford warbler territories/breeding nests have been recorded within the Order Limits where they cross Colony Bog and Bagshot Heath SSSI (2Js Ecology, 2016). Records are concentrated in a single location on the northern boundary in scattered scrub to the south of the existing access track and heathland to its north (Figure A7.8.3). Dartford warbler have been recorded in 2008, 2011, 2013, 2015, 2016 and 2017 in this location.
- 3.1.9 All three qualifying bird species have been recorded within the Order Limits at Chobham Common SSSI. Dartford warbler were recorded in the Order Limits to the west of the site in 2015, 2017 and 2018 and in the east in 2008, 2009 and 2016. Nightjar and woodlark were specifically recorded within the Order Limits most years in the mid and eastern sections through the SSSI.

## 3.2 Incidental Records

- 3.2.1 Thirty-seven records relating to notable bird species were made incidentally by surveyors carrying out other ecological surveys. Bird species incidentally recorded comprised barn owl (*Tyto alba*), buzzard, fieldfare, kingfisher, lapwing, nightjar, peregrine, red kite, skylark and tawny owl (*Strix aluco*). Of these records, five are within the Order Limits. However, only one of these relates to a sedentary feature (an owl box). All incidental records are detailed in Annex B.

# 4 Discussion

## 4.1 Introduction

- 4.1.1 Breeding birds, including notable and protected species, could be present in almost all habitats within the Order Limits, particularly hedgerows, trees, scrub, arable fields, grassland and heathland.



- 4.1.2 Due to the large assemblage of bird species across the Order Limits, many of which are listed as Priority Species or are listed under Annex 1 or Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), good practice measures would be required.

## 4.2 Habitats

- 4.2.1 The southern half of the route, up to Section C (see Figure A7.8.1), consists of mainly arable fields and open spaces which provide habitat and feeding opportunities for farmland birds. The north of the route (Sections F to H) is characterised by designated heathland, wetland and water bodies which support a large diversity of both breeding and wintering notable bird species.
- 4.2.2 Specific habitats along the Order Limits have increased importance for some bird species, for example hedgerows provide nesting and foraging opportunities for many species of passerine.
- 4.2.3 Arable fields, which make up a large proportion of the southern half of the route (up to Section C), provide foraging opportunities for many farmland birds due to regular disturbance, such as ploughing and harvesting (Vickery *et al.*, 2009). These species include, but are not limited to, tree sparrow (*Passer montanus*), yellowhammer and barn owl. Ground nesting birds would also find this type of habitat suitable, e.g. lapwing, skylark and grey partridge (*Perdix perdix*).
- 4.2.4 Barn owl records exist along the length of the Order Limits, and two incidental records suggest roosts where breeding may occur (one near Upham and the other in Chertsey). Several barn owl boxes have been incidentally recorded along the route.
- 4.2.5 Areas of heathland along the Order Limits are largely designated as SSSIs for their breeding populations of Dartford warbler, nightjar and woodlark. Other notable breeding species which may be found in this habitat include hobby, meadow pipit, linnet and wheatear (*Oenanthe oenanthe*).
- 4.2.6 Wetlands and water bodies are present along the Order Limits, with the largest (South West London Waterbodies SPA) situated near Section H. These habitats support important assemblages of wintering waterfowl, wading and wetland birds such as gadwall, shelduck (*Tadorna tadorna*), shoveler, smew and gull species. Other areas of wetlands, such as Frimley Hatches SNCI and Fleet Pond SSSI, contain areas of reedbed which are wintering habitat for such notable species as bittern and Cetti's warbler (*Cettia cetti*) and breeding habitat for reed bunting and reed warbler (Joint Nature Conservation Committee, 2008). Kingfisher have been repeatedly recorded at Fleet Pond SSSI and along the River Hamble and River Wey watercourses.
- 4.2.7 Urban areas, such as those which characterise parts of Sections E and G (as the Order Limits pass through Farnborough, Frimley and Chertsey), support a number of notable bird species such as house martin (*Delichon urbicum*), house sparrow (*Passer domesticus*), starling (*Sturnus vulgaris*) and swallow (*Hirundo rustica*). Breeding skylark are also known at Chertsey Meads.



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## Annex A – Bird Species within the Study Area (2008 Onwards Records)

Scientific Name	Common Name	Location of Closest Record(s) <sub>1</sub>	Date of Most Recent Record <sub>2</sub>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Tyto alba</i>	Barn owl	Curdridge	2016	0	WCA S1	30
<i>Botaurus stellaris</i>	Bittern	Undisclosed	2015	990	Annex 1; WCA S1; NERC S41; London BAP; BOCC – Red; Local sp. of Cons. Conc.	49
<i>Milvus migrans</i>	Black kite	Bourley and Long Valley SSSI	2008	36	Annex 1	1
<i>Phoenicurus ochruros</i>	Black redstart	Bourley and Long Valley SSSI	2016	0	WCA S1; BOCC – Red; CR	9
<i>Chlidonias niger</i>	Black tern	Fleet Pond SSSI	2016	174	Annex 1; WCA S1	1
<i>Chroicocephalus ridibundus</i>	Black-headed gull	Neatham Down	2016	0	BOCC – Amber; CR	8
<i>Podiceps nigricollis</i>	Black-necked grebe	Undisclosed	2015	992	WCA S1; BOCC – Amber; Local sp. of Cons. Conc.	2
<i>Limosa limosa</i>	Black-tailed godwit	Four Marks	2014	109	WCA S1; BOCC – Red; CI	2
<i>Fringilla montifringilla</i>	Brambling	Bourley and Long Valley SSSI	2016	0	WCA S1	34
<i>Pyrrhula pyrrhula</i>	Bullfinch	Lower Froyle	2016	0	HBAP; London BAP; BOCC – Amber	88
<i>Cettia cetti</i>	Cetti's warbler	Fleet Pond SSSI	2015	174	WCA S1; Local sp. of Cons. Conc.; CS	25
<i>Acanthis flammea</i>	Common (Mealy) redpoll	Fleet Pond SSSI	2011	174	London BAP; BOCC – Amber; Local sp. of Cons. Conc.; CI	2
<i>Loxia curvirostra</i>	Common crossbill	Bourley and Long Valley SSSI	2016	0	WCA S1; CS	7
<i>Sterna hirundo</i>	Common tern	Frimley	2015	0	Annex 1; BOCC – Amber; Local sp. of Cons. Conc.; CR	43
<i>Emberiza calandra</i>	Corn bunting	Warnford	2015	585	BOCC – Red; HBAP; CS	1





Scientific Name	Common Name	Location of Closest Record(s) <sub>1</sub>	Date of Most Recent Record <sub>2</sub>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Grus grus</i>	Crane	Bourley and Long Valley SSSI	2016	962	Annex 1; BOCC – Amber	1
<i>Cuculus canorus</i>	Cuckoo	Bourley and Long Valley SSSI	2016	0	NERC S41; London BAP; BOCC – Red; Local sp. of Cons. Conc.	35
<i>Branta bernicla</i>	Dark-bellied brent goose	Bourley and Long Valley SSSI	2013	0	NERC S41; HBAP; BOCC – Amber	1
<i>Sylvia undata</i>	Dartford warbler	Eelmoor Marsh SSSI	2016	0	Annex 1; WCA S1; BOCC – Amber; CI	68
<i>Calidris alpina</i>	Dunlin	Bourley and Long Valley SSSI	2013	0	HBAP; BOCC – Amber	2
<i>Prunella modularis</i>	Dunnock	Eelmoor Marsh SSSI	2015	264	BOCC – Amber; London BAP; Local sp. of Cons. Conc.	22
<i>Turdus pilaris</i>	Fieldfare	Across study area	2016	0	WCA S1; BOCC – Red	134
<i>Regulus ignicapilla</i>	Firecrest	Near Bramdean	2016	0	WCA S1; HBAP; Local sp. of Cons. Conc.; CS	136
<i>Anas strepera</i>	Gadwall	East Worldham	2016	0	HBAP; BOCC – Amber; Local sp. of Cons. Conc.	53
<i>Anas querquedula</i>	Garganey	Frimley	2008	0	WCA S1; BOCC – Amber	1
<i>Pluvialis apricaria</i>	Golden plover	West Tisted	2016	0	Annex 1; HBAP	48
<i>Regulus regulus</i>	Goldcrest	Undisclosed	2015	264	Local sp. of Cons. Conc.	11
<i>Mergus merganser</i>	Goosander	Bourley and Long Valley SSSI	2015	0	HBAP; CR	2
<i>Accipiter gentilis</i>	Goshawk	Sensitive data, not disclosed	2016	0	WCA S1; CR	4
<i>Locustella naevia</i>	Grasshopper warbler	East Worldham	2015	0	NERC S41; HBAP; London BAP; UKBAP; BOCC – Red; Local sp. of Cons. Conc.; CR	4
<i>Larus marinus</i>	Great black-backed gull	Bourley and Long Valley SSSI	2015	0	BOCC – Amber; CR	3
<i>Podiceps cristatus</i>	Great crested grebe	Fleet Pond SSSI	2015	0	CI	3



Scientific Name	Common Name	Location of Closest Record(s) <sub>1</sub>	Date of Most Recent Record <sub>2</sub>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Tringa ochropus</i>	Green sandpiper	Isington	2016	0	WCA S1; BOCC – Amber	28
<i>Tringa nebularia</i>	Greenshank	Warnford	2010	474	WCA S1; BOCC – Amber	1
<i>Ardea cinerea</i>	Grey heron	Bourley and Long Valley SSSI	2016	0	Local sp. of Cons. Conc.; CS	53
<i>Perdix perdix</i>	Grey partridge	Binsted	2015	0	NERC S41; HBAP; BOCC – Red	21
<i>Motacilla cinerea</i>	Grey wagtail	Bourley and Long Valley SSSI	2016	0	BOCC – Red; Local sp. of Cons. Conc.	43
<i>Coccothraustes coccothraustes</i>	Hawfinch	Church Crookham	2010	377	NERC S41; HBAP; BOCC – Red; CI	1
<i>Circus cyaneus</i>	Hen harrier	Warnford	2013	0	Annex 1; WCA S1; NERC S41; HBAP; BOCC – Red	10
<i>Larus argentatus</i>	Herring gull	Across study area	2016	0	London BAP; BOCC – Red; Local sp. of Cons. Conc.; CR	11
<i>Falco subbuteo</i>	Hobby	Sensitive data, not disclosed	2016	0	WCA S1; HBAP; Local sp. of Cons. Conc.; CI	82
<i>Pernis apivorus</i>	Honey buzzard	Sensitive data, not disclosed	2013	0	Annex 1; WCA S1; HBAP; BOCC – Amber; CR	5
<i>Delichon urbicum</i>	House martin	Undisclosed	2015	240	BOCC – Amber; Local sp. of Cons. Conc.	19
<i>Passer domesticus</i>	House sparrow	Lower Froyle	2016	0	NERC S41; London BAP; UKBAP; BOCC – Red; Local sp. of Cons. Conc.	51
<i>Falco tinnunculus</i>	Kestrel	Undisclosed	2015	264	BOCC – Amber; Local sp. of Cons. Conc.	34
<i>Alcedo atthis</i>	Kingfisher	Alton	2016	0	Annex 1; WCA S1; BOCC – Amber; Local sp. of Cons. Conc.	45
<i>Calcarius lapponicus</i>	Lapland bunting	Church Crookham	2011	36	WCA S1; BOCC – Amber	2



Scientific Name	Common Name	Location of Closest Record(s) <sub>1</sub>	Date of Most Recent Record <sub>2</sub>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Vanellus vanellus</i>	Lapwing	Lower Froyle	2016	0	NERC S41; HBAP; London BAP; UKBAP; BOCC – Red; Local sp. of Cons. Conc.	85
<i>Larus fuscus</i>	Lesser black-backed gull	Near Alton	2016	0	BOCC – Red; Local sp. of Cons. Conc.; CR	37
<i>Acanthis cabaret</i>	Lesser redpoll	Across study area	2016	0	NERC S41; UKBAP; BOCC – Red	56
<i>Dendrocopos minor</i>	Lesser spotted woodpecker	Kitwood	2012	373	HBAP; London BAP; BOCC – Red; Local sp. of Cons. Conc.	15
<i>Linaria cannabina</i>	Linnet	Eelmoor Marsh SSSI	2016	0	HBAP; London BAP; BOCC – Red; Local sp. of Cons. Conc.	99
<i>Egretta garzetta</i>	Little egret	Lower Froyle	2016	0	Annex 1; HBAP; Local sp. of Cons. Conc.; CR	39
<i>Hydrocoloeus minutus</i>	Little gull	Frimley	2016	0	Annex 1; WCA S1	2
<i>Charadrius dubius</i>	Little ringed plover	Sensitive data, not disclosed	2016	0	WCA S1; CS	16
<i>Asio otus</i>	Long-eared owl	Sensitive data, not disclosed	2008	0	CR	1
<i>Circus aeruginosus</i>	Marsh harrier	Bourley and Long Valley SSSI	2016	36	Annex 1; WCA S1; BOCC – Amber; Local sp. of Cons. Conc.; CR	3
<i>Poecile palustris</i>	Marsh tit	Brockwood	2016	0	London BAP; BOCC – Red	87
<i>Anthus pratensis</i>	Meadow pipit	Undisclosed	2012	264	BOCC – Amber; Local sp. of Cons. Conc.	9
<i>Larus melanocephalus</i>	Mediterranean gull	Brockwood	2016	0	Annex 1; WCA S1; HBAP; BOCC – Amber; CR	20
<i>Falco columbarius</i>	Merlin	Near Warnford	2016	0	Annex 1; WCA S1; HBAP; BOCC – Red	4
<i>Turdus viscivorus</i>	Mistle thrush	Lower Froyle	2016	0	BOCC – Red; Local sp. of Cons. Conc.	33



Scientific Name	Common Name	Location of Closest Record(s) <sub>1</sub>	Date of Most Recent Record <sub>2</sub>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Cygnus olor</i>	Mute swan	Undisclosed	2015	315	BOCC – Amber; Local sp. of Cons. Conc.	52
<i>Luscinia megarhynchos</i>	Nightingale	Eelmoor Marsh SSSI	2011	804	HBAP; BOCC – Red; Local sp. of Cons. Conc.; CS	3
<i>Caprimulgus europaeus</i>	Nightjar	SSSIs across study area	2016	0	Annex 1; WCA S1; NERC S41; HBAP; BOCC – Amber; CI	80
<i>Pandion haliaetus</i>	Osprey	Church Crookham	2014	36	Annex 1; WCA S1; BOCC – Amber	4
<i>Haematopus ostralegus</i>	Oystercatcher	Fleet Pond SSSI	2016	174	BOCC – Amber; CS	1
<i>Falco peregrinus</i>	Peregrine	Sensitive data, not disclosed	2016	0	Annex 1; WCA S1; London BAP; Local sp. of Cons. Conc.; CR	58
<i>Ficedula hypoleuca</i>	Pied flycatcher	Lower Farringdon	2016	0	BOCC – Red; CR	3
<i>Aythya ferina</i>	Pochard	Alton	2013	654	HBAP; BOCC – Red; CS	2
<i>Milvus milvus</i>	Red kite	Across study area	2016	0	Annex 1; WCA S1; HBAP; CR	203
<i>Phoenicurus phoenicurus</i>	Redstart	Alton	2016	0	BOCC – Amber; CI	34
<i>Turdus iliacus</i>	Redwing	Across study area	2016	0	WCA S1; BOCC – Amber	95
<i>Emberiza schoeniclus</i>	Reed bunting	Bourley and Long Valley SSSI	2016	0	NERC S41; HBAP; London BAP; UKBAP; BOCC – Amber; Local sp. of Cons. Conc.	76
<i>Acrocephalus scirpaceus</i>	Reed warbler	Frimley	2015	0	HBAP	3
<i>Turdus torquatus</i>	Ring ouzel	Bourley and Long Valley SSSI	2016	0	NERC S41; UKBAP; BOCC – Red	10
<i>Charadrius hiaticula</i>	Ringed plover	Bourley and Long Valley SSSI	2008	704	BOCC – Red; Local sp. of Cons. Conc.	1
<i>Corvus frugilegus</i>	Rook	Undisclosed	2015	852	Local sp. of Cons. Conc.	3
<i>Riparia riparia</i>	Sand martin	Bourley and Long Valley SSSI	2016	0	London BAP; Local sp. of Cons. Conc.	7



Scientific Name	Common Name	Location of Closest Record(s) <sub>1</sub>	Date of Most Recent Record <sub>2</sub>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Tadorna tadorna</i>	Shelduck	Hinton Ampner	2016	0	BOCC – Amber; CI	3
<i>Asio flammeus</i>	Short-eared owl	Kilmeston	2012	40	BOCC – Amber; Annex 1; Local sp. of Cons. Conc.	9
<i>Anas clypeata</i>	Shoveler	Undisclosed	2015	315	BOCC – Amber; Local sp. of Cons. Conc.; CR	28
<i>Spinus spinus</i>	Siskin	Across study area	2016	0	CI	51
<i>Alauda arvensis</i>	Skylark	Near Alton	2016	0	NERC S41; HBAP; London BAP; BOCC – Red; Local sp. of Cons. Conc.	87
<i>Mergellus albellus</i>	Smew	Undisclosed	2012	839	BOCC – Amber; Annex 1	99
<i>Gallinago gallinago</i>	Snipe	Across study area	2016	0	HBAP; London BAP; BOCC – Amber; Local sp. of Cons. Conc.; CS	46
<i>Turdus philomelos</i>	Song thrush	Bourley and Long Valley SSSI	2016	0	HBAP; BOCC – Red; Local sp. of Cons. Conc.	59
<i>Muscicapa striata</i>	Spotted flycatcher	Near Four Marks	2016	0	NERC S41; HBAP; London BAP; UKBAP; BOCC – Red; Local sp. of Cons. Conc.	42
<i>Sturnus vulgaris</i>	Starling	Lower Froyle	2016	0	London BAP; BOCC - Red	55
<i>Columba oenas</i>	Stock dove	Undisclosed	2012	264	BOCC – Amber; Local sp. of Cons. Conc.	6
<i>Hirundo rustica</i>	Swallow	Undisclosed	2015	264	Local sp. of Cons. Conc.	15
<i>Apus apus</i>	Swift	Undisclosed	2015	315	BOCC – Amber; Local sp. of Cons. Conc.	19
<i>Strix aluco</i>	Tawny owl	Undisclosed	2011	990	BOCC – Amber; Local sp. of Cons. Conc.	13
<i>Anas crecca</i>	Teal	Undisclosed	2011	315	BOCC – Amber; Local sp. of Cons. Conc.	9
<i>Anthus trivialis</i>	Tree pipit	Bourley and Long Valley SSSI	2016	0	NERC S41; BOCC - Red	69



Scientific Name	Common Name	Location of Closest Record(s) <sup>1</sup>	Date of Most Recent Record <sup>2</sup>	Minimum Distance From Order Limits (m)	Protection / Conservation Status	Total Combined Records
<i>Passer montanus</i>	Tree sparrow	Alton	2009	0	NERC S41; HBAP; London BAP; UKBAP; BOCC – Red; Local sp. of Cons. Conc.; CR	2
<i>Streptopelia turtur</i>	Turtle dove	Lower Froyle	2013	42	NERC S41; HBAP; London BAP; UKBAP; BOCC – Red; Local sp. of Cons. Conc.	6
<i>Rallus aquaticus</i>	Water rail	Fleet Pond SSSI	2016	0	Local sp. of Cons. Conc.; CS	57
<i>Oenanthe oenanthe</i>	Wheatear	Across the study area	2016	0	CS	55
<i>Numenius phaeopus</i>	Whimbrel	Curdrige	2015	230	WCA S1; BOCC – Red	1
<i>Saxicola rubetra</i>	Whinchat	Chawton	2016	0	HBAP; BOCC – Red; CR	26
<i>Anser albifrons</i>	White-fronted goose	Bourley and Long Valley SSSI	2016	36	HBAP; BOCC – Red	1
<i>Anas penelope</i>	Wigeon	Undisclosed	2015	990	BOCC – Amber; Local sp. of Cons. Conc.	24
<i>Poecile montanus</i>	Willow tit	Brockwood	2015	159	BOCC – Red	6
<i>Phylloscopus trochilus</i>	Willow warbler	Undisclosed	2015	264	BOCC – Amber; Local sp. of Cons. Conc.	41
<i>Phylloscopus sibilatrix</i>	Wood warbler	Bourley and Long Valley SSSI	2014	36	NERC S41; BOCC – Red; CI	5
<i>Scolopax rusticola</i>	Woodcock	Fleet	2016	0	BOCC – Red; Local sp. of Cons. Conc.	63
<i>Lullula arborea</i>	Woodlark	Bourley and Long Valley SSSI	2016	0	Annex 1; WCA S1; NERC S41; HBAP; CI	148
<i>Jynx torquilla</i>	Wryneck	Ewshot	2015	798	WCA S1; BOCC – Former breeder	1
<i>Motacilla flava</i>	Yellow wagtail	Farnborough	2016	0	HBAP; London BAP; BOCC – Red; Local sp. of Cons. Conc.; CR	20
<i>Emberiza citrinella</i>	Yellowhammer	Across study area	2016	0	NERC S41; BOCC – Red	88

<sup>1</sup>: GiGL data did not return a location.

<sup>2</sup>: The most recent record and the closest record to the Order Limits are not necessarily the same.



## Annex B – Incidental Bird Records (2018)

Species	Date	Grid Reference	Location	Distance From Order Limits	Notes
Barn owl	13/3/2018	SU 56801 21980	Upham	40m east	Anecdotal evidence of a pair of breeding barn owls in stables. Pellet found on floor below by surveyors.
Barn owl	11/5/2018	SU 68082 34087	Four Marks	227m north	Anecdotal evidence of barn owl regularly foraging in this field.
Barn owl	20/6/2018	SU 51496 15161	Durley	105m northeast	Sighting
Barn owl	2/8/2018	SU 51713 15390	Durley	17m west	Barn owl box in oak with lifted bark.
Barn owl	3/8/2018	TQ 03861 65866	Chertsey	160m southwest	Barn owl roost in mature oak within dry ditch. Flew out into grazed field. Pellets and downy feathers on floor below cavity in tree.
Barn owl	8/8/2018	SU 66327 30803	West Tisted	93m east	Barn owl disturbed when walking past, flew into woodland.
Barn owl	26/9/2018	SU 62033 26579	Bramdean	67m east	Barn owl box on tree.
Barn owl	23/10/2018	SU 70013 35112	Upper Farringdon	38m north	Barn owl box on oak tree.
Barn owl	8/11/2018	SU 52842 17062	Durley	24m north	Barn owl box on dead tree.
Buzzard	7/3/2018	SU 75253 42117	Froyle	Within Order Limits	Four buzzards flying overhead.
Fieldfare	27/2/2018	SU 56437 21473	Upham	87m southeast	Fieldfare
Fieldfare	15/3/2018	SU 59455 24163	Kilmeston	Within Order Limits	Fieldfare foraging.
Kingfisher	17/10/2018	TQ 04740 65597	Abbey Moor Golf Club	Within Order Limits	Anecdotal evidence of kingfisher which flies along wet ditch next to railway.
Lapwing	26/2/2018	SU 52480 16581	Durley	Within Order Limits	Lapwings
Lapwing	27/2/2018	SU 55066 21051	Upham	555m west	Lapwing nesting.
Nightjar	22/2/2018	SU 85527 55346	Cove	75m east	Anecdotal evidence of nightjar in woodland.
Owl	15/3/2018	SU 67130 33002	Four Marks	53m northwest	Heard an owl call (unknown sp.).
Owl	4/4/2018	SU 88399 56523	Frimley Hatches	496m northeast	Owl box on oak tree. Also several small bird boxes on trees in this wooded area.



Species	Date	Grid Reference	Location	Distance From Order Limits	Notes
Owl	4/4/2018	SU 88339 56421	Frimley Hatches	493m northeast	Owl box on oak tree.
Owl	4/4/2018	SU 88384 56495	Frimley Hatches	494m northeast	Owl box on oak tree.
Owl	14/5/2018	SU 99047 64697	Longcross	Within Order Limits	Owl box attached to east of beech tree.
Owl	25/9/2018	TQ 06073 69504	Laleham	393m east	Owl box. Bird monitoring here by Hershams Bird Ringers.
Owl	27/9/2018	TQ 06097 69215	Laleham	336m east	Owl box on tree.
Owl	27/9/2018	TQ 06037 69314	Laleham	282m east	Old owl box fallen down, egg shell inside.
Owl	27/9/2018	TQ 06105 69365	Laleham	350m east	Owl box on tree.
Owl	27/9/2018	TQ 06059 69361	Laleham	305m east	Owl box on tree.
Owl	24/10/2018	TQ 06070 70009	Laleham	290m southeast	Owl box on tree.
Owl	24/10/2018	TQ 06003 69800	Laleham	340m east	Owl box on tree.
Owl	24/10/2018	TQ 06004 69719	Laleham	360m southeast	Owl box on tree.
Owl	24/10/2018	TQ 06109 70031	Laleham	310m southeast	Two owl boxes and regular bird box on adjacent trees.
Peregrine	10/10/2018	SU 65717 30425	Ropley	166m northwest	Anecdotal evidence of peregrines in the quarry.
Red kite	11/5/2018	SU 59505 24511	Kilmeston	160m northwest	Red kite flew over.
Red kite	7/11/2018	SU 57117 22192	Upham	32m north	Red kite flying in circular motion over arable field.
Skylark	11/5/2018	SU 59576 24459	Kilmeston	65m southeast	Skylark singing over sheep pasture.
Tawny owl	29/3/2018	SU 87993 57007	Frimley Hatches	172m southwest	Tawny owl roost, flew out as disturbed by surveyors.
Tawny owl	24/4/2018	SU 77865 44690	Bentley	355m southeast	Flushed owl from perch.
N/A	24/5/2018	TQ 06113 70029	Laleham	315m southeast	Multiple bird boxes scattered throughout the site of varying sizes. Some with nests. Evidence of mist net use (Hershams Bird Ringers).





## Figures

Figure A7.8.1 Designated Sites with Bird Species as Qualifying or Notified Features

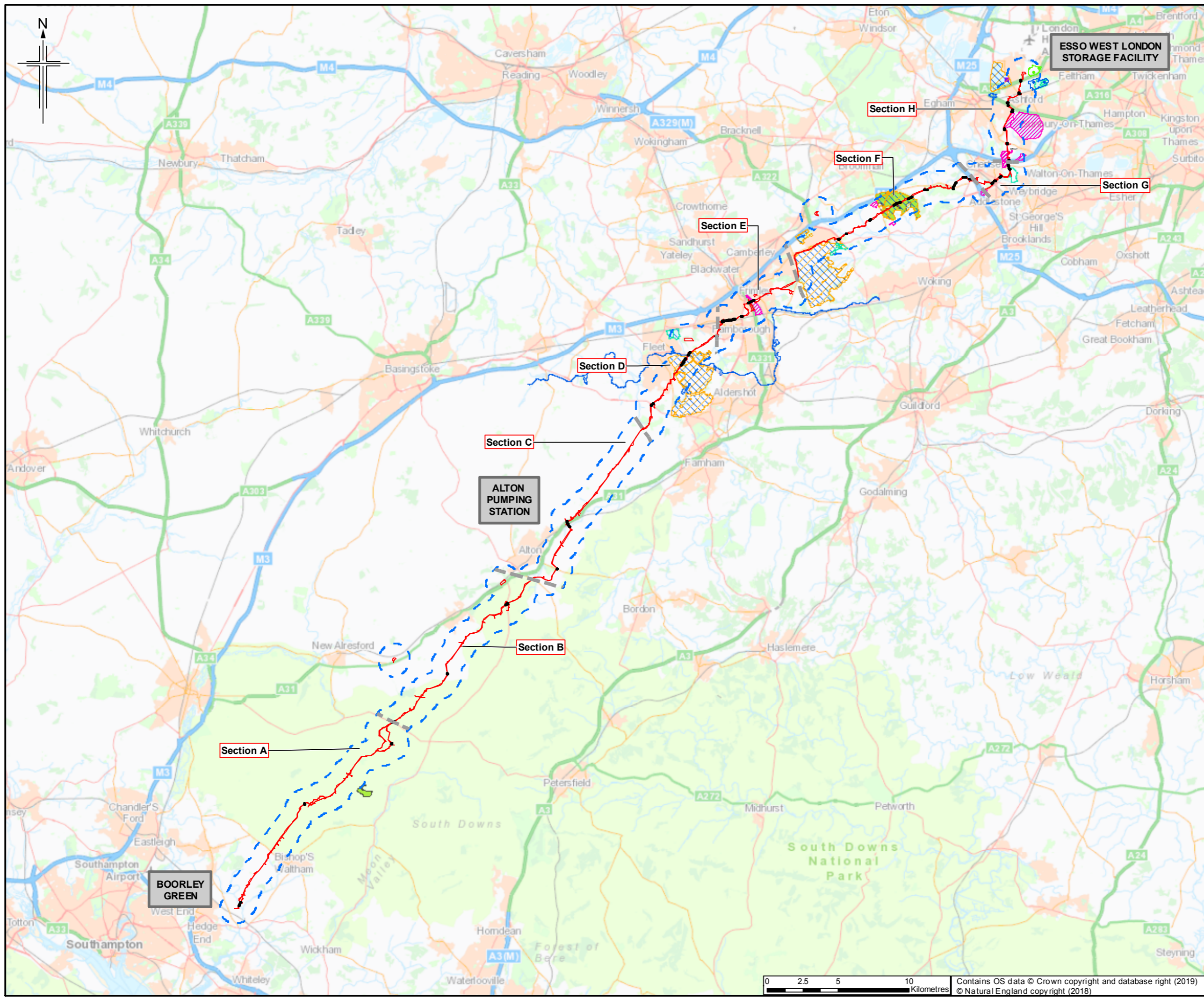
Figure A7.8.2 Bourley and Long Valley and Eelmoor Marsh SSSI Qualifying Species Breeding Sites 2008 – 2018

Figure A7.8.3 Coloby Bog and Bagshot Heath SSSI Qualifying Species Breeding Sites 2008 – 2018

Figure A7.8.4 Chobham Common SSSI Qualifying Species Breeding Sites 2008 – 2018



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- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

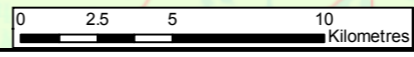
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 Ermyn House,  
 Ermyn Way,  
 Leatherhead,  
 Surrey,  
 KT22 8UX

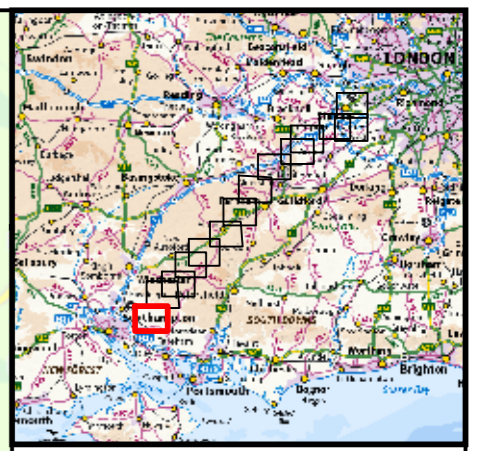
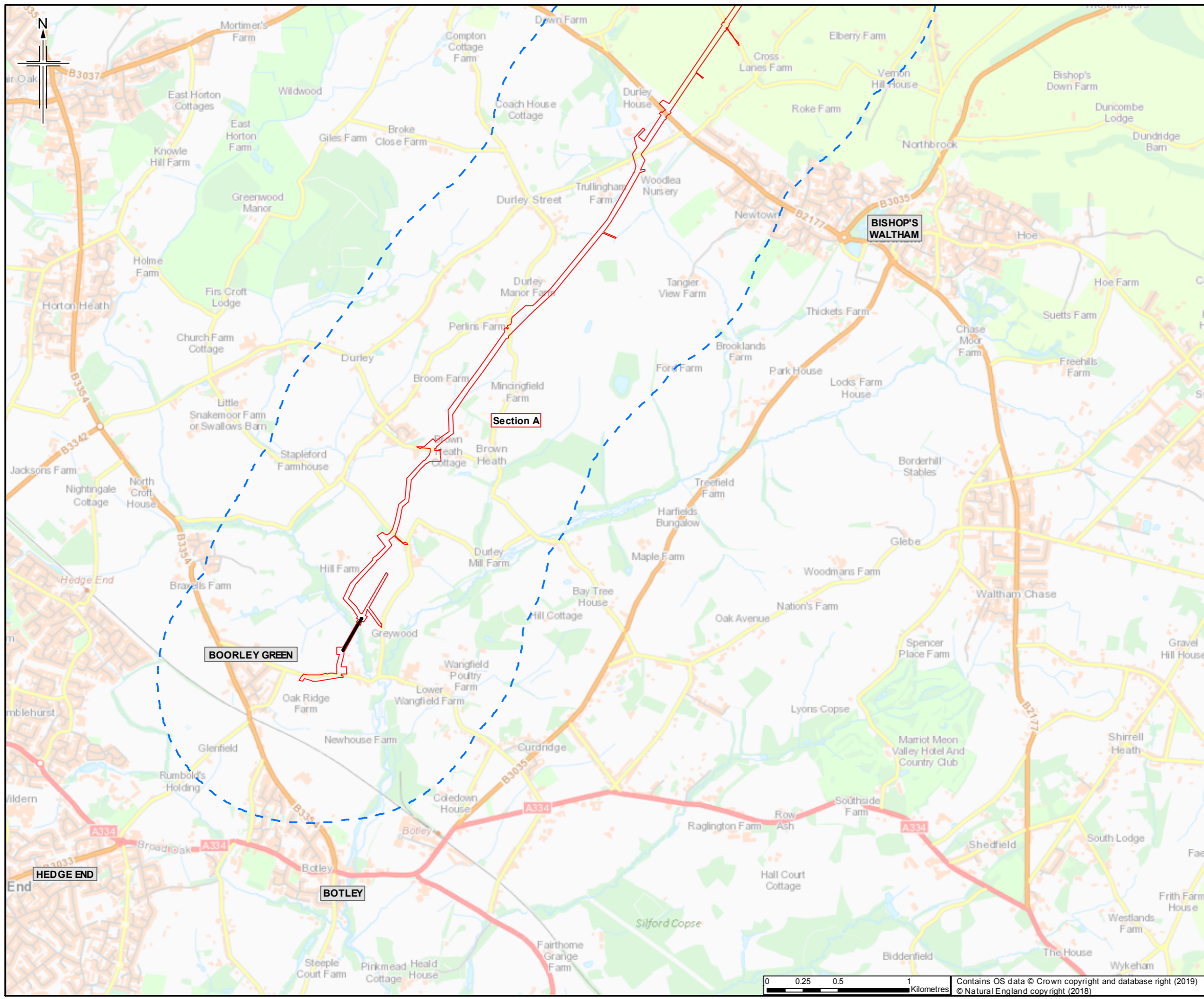
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 Southampton to London Pipeline Project

Drawing title  
 ENVIRONMENTAL STATEMENT  
 DESIGNATED SITES WITH BIRD SPECIES  
 AS QUALIFYING OR NOTIFIED FEATURES  
 APFP Reg. (2009) 5(2)(l)

Drawing Status	For Issue	
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JACOBS No.	B232 5300	
ProjectWise No.	B2325300-JAC-000-ENV-DRG-001628	
Drawing number	Figure 7.8.1 Key Plan	Rev 0



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- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

Sheet displays part of Section A

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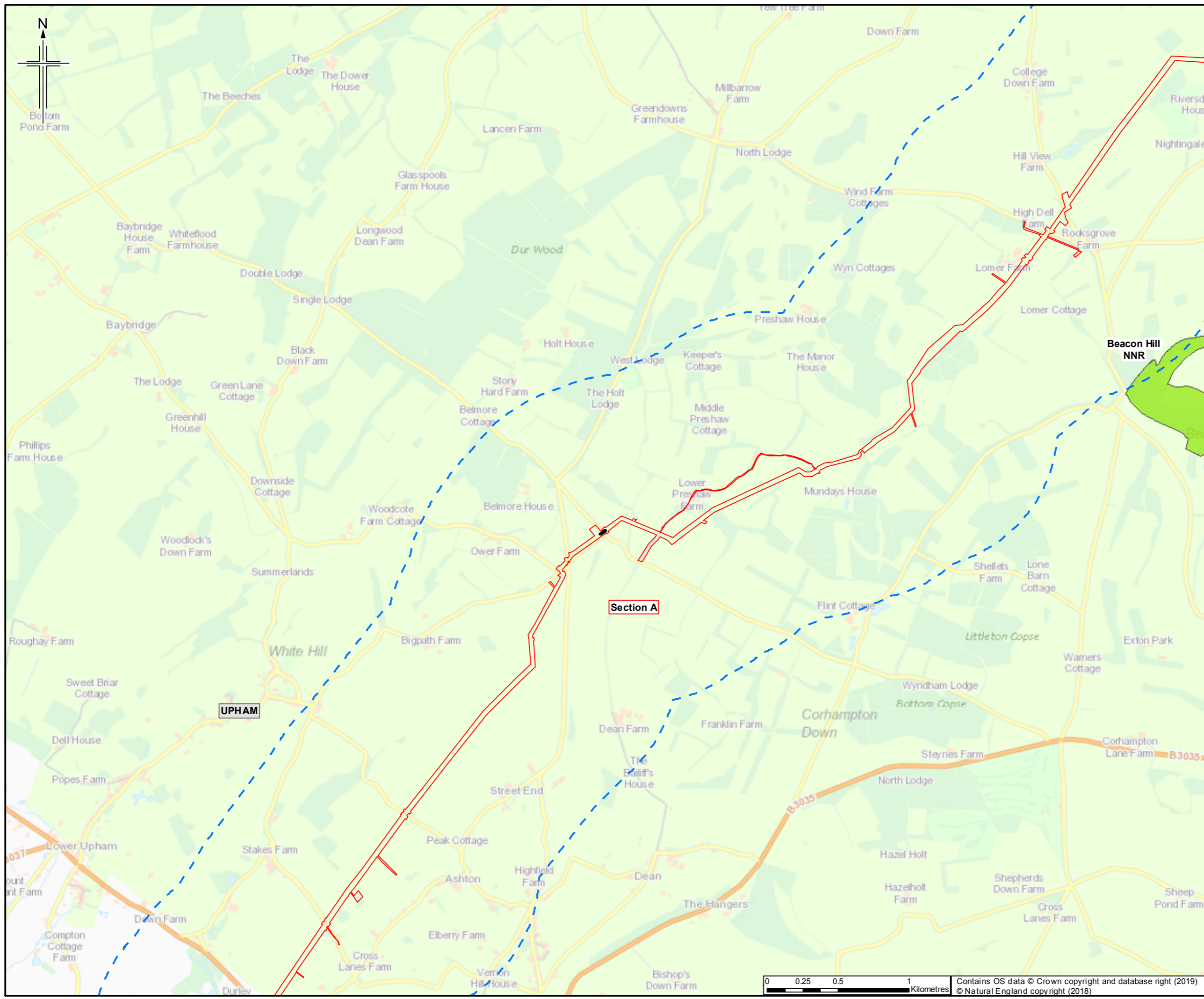


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Ermyn Way,  
Leatherhead,  
Surrey,  
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Drawing title  
**ENVIRONMENTAL STATEMENT DESIGNATED SITES WITH BIRD SPECIES AS QUALIFYING OR NOTIFIED FEATURES APFP Reg. (2009) 5(2)(l)**

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Project/Draw No.	B2325300-JAC-000-ENV-DRG-001628		
Drawing number	Figure 7.8.1 Sheet 1 of 14	Rev	0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
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  - Site of Metropolitan Importance (SMI)

Sheet displays part of Section A

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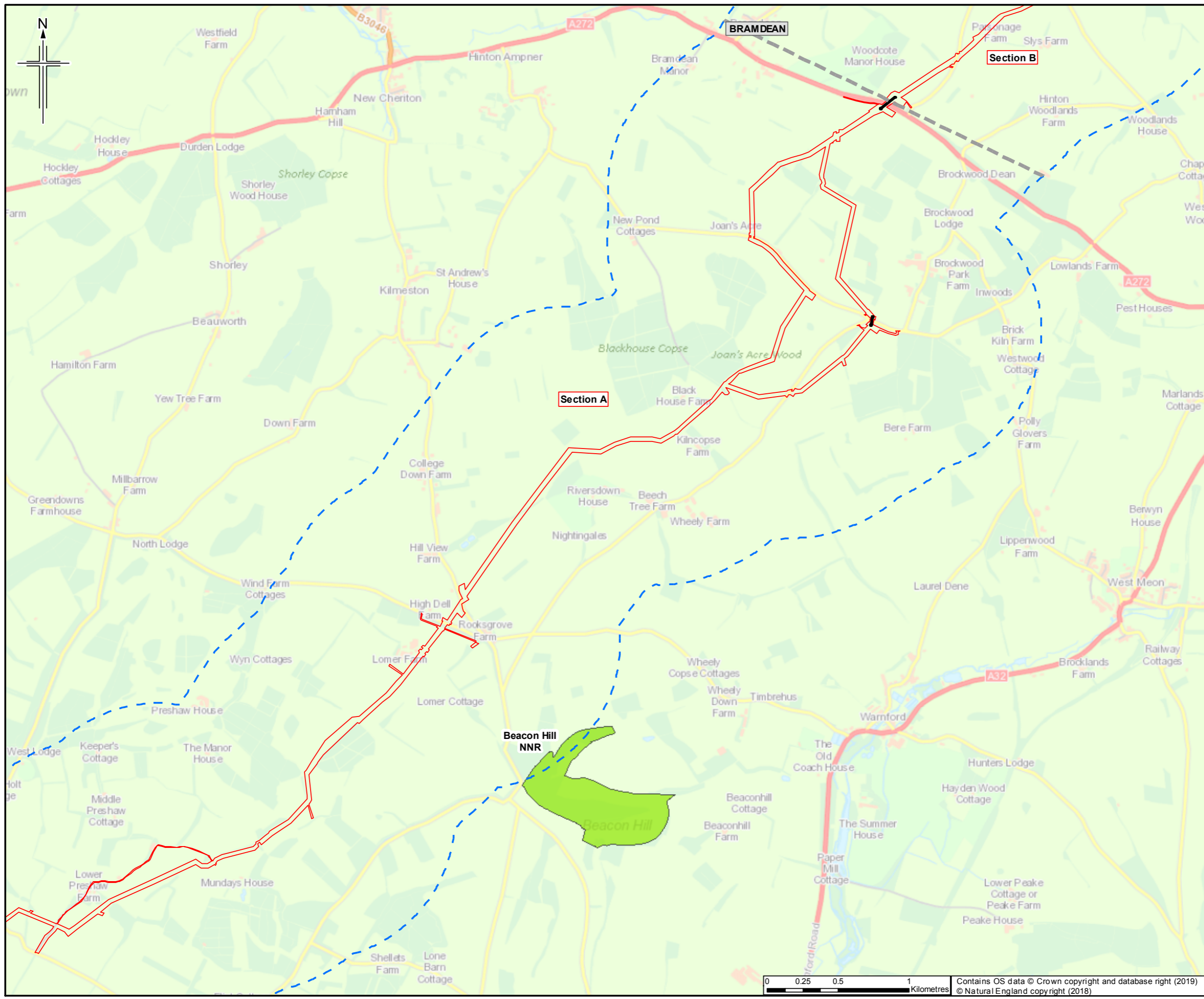


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Leatherhead,  
Surrey,  
KT22 8UX



Drawing title  
**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

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ProjectWise No.	B2325300-JAC-000-ENV-DRG-001628				
Drawing number	Figure 7.8.1 Sheet 2 of 14				Rev 0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
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- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

Sheet displays parts of Section A and Section B

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd

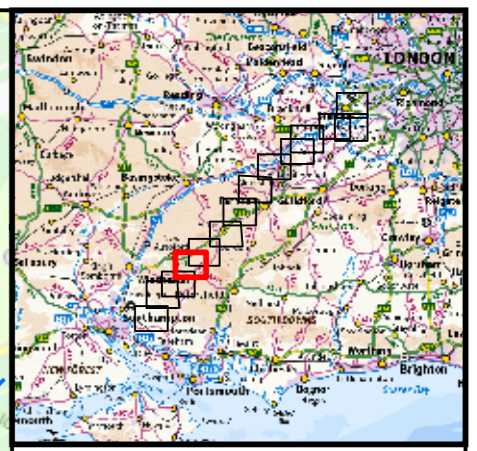
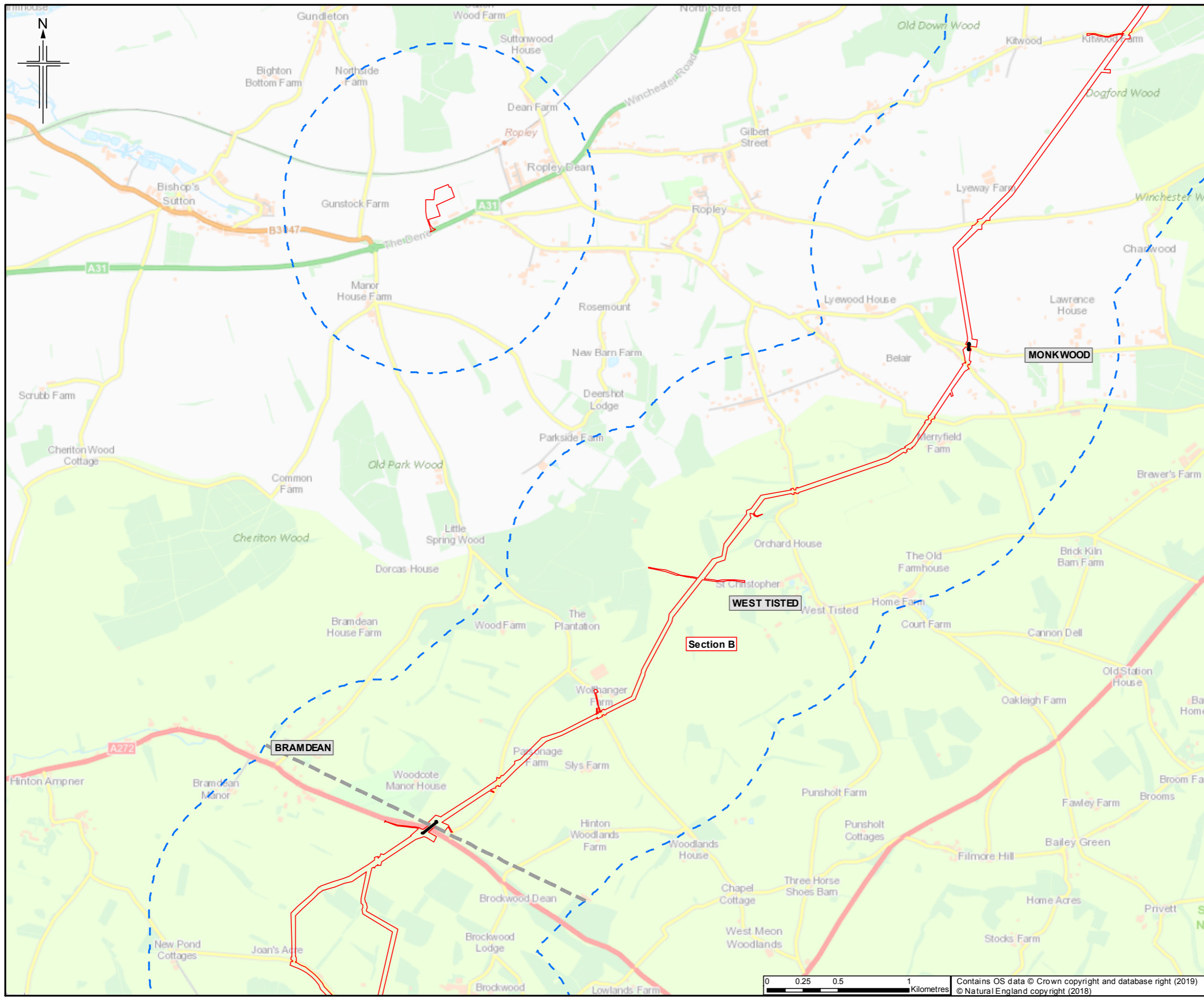


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Drawing title  
**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

Drawing Status	For Issue
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JACOBS No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-001628
Drawing number	Figure 7.8.1 Sheet 3 of 14
	Rev 0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd
0	5/23/2019	For Issue	MG	NS	LG	SH

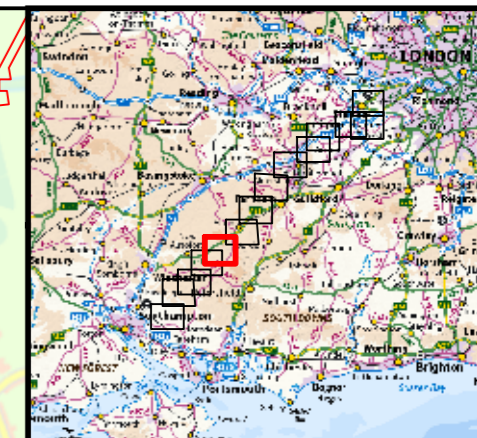
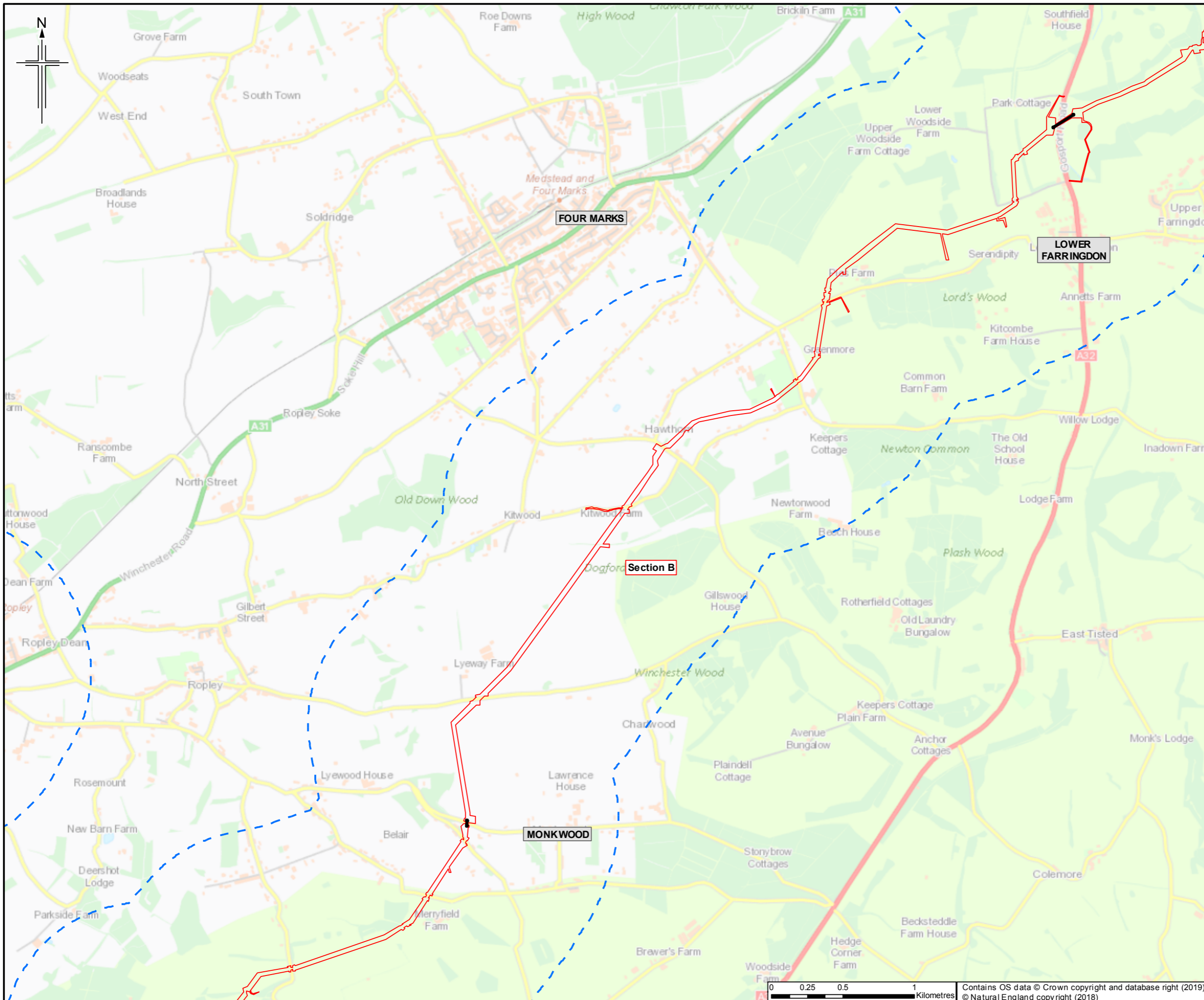


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**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

Drawing Status			For Issue		
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Jacobs No.	B232 5300				
Project/Work No.	B2325300-JAC-000-ENV-DRG-001628				
Drawing number	Figure 7.8.1 Sheet 4 of 14				Rev 0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd



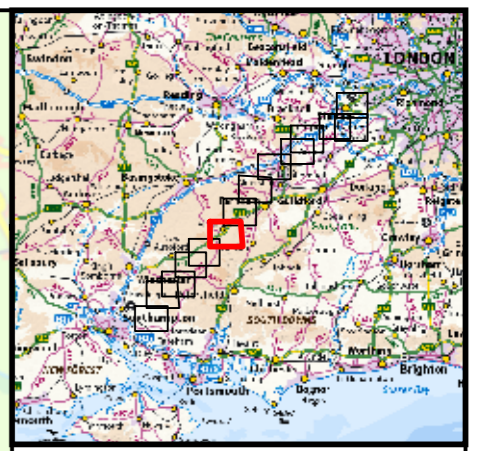
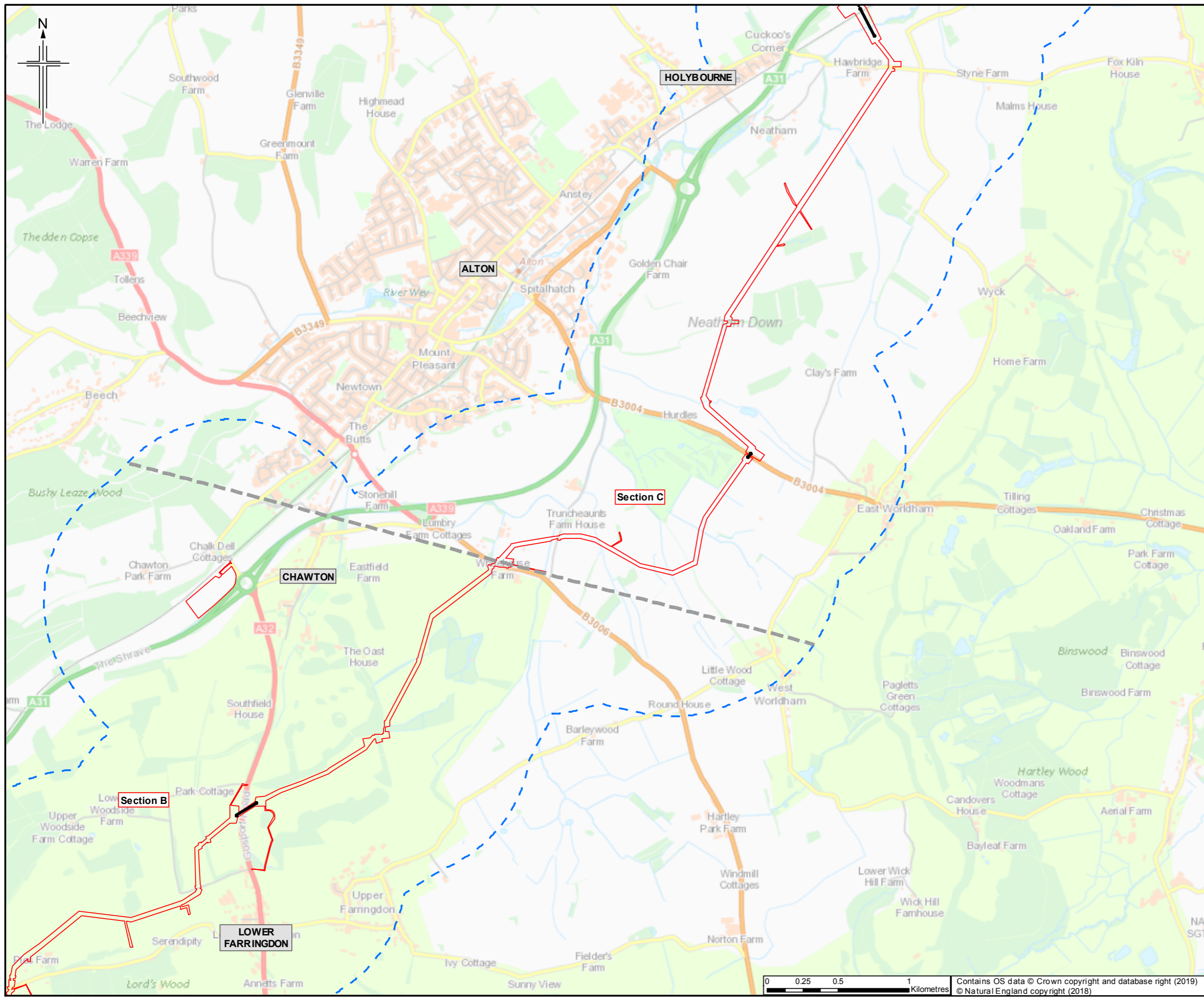
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**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

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Drawing number	Figure 7.8.1 Sheet 5 of 14	Rev 0





- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

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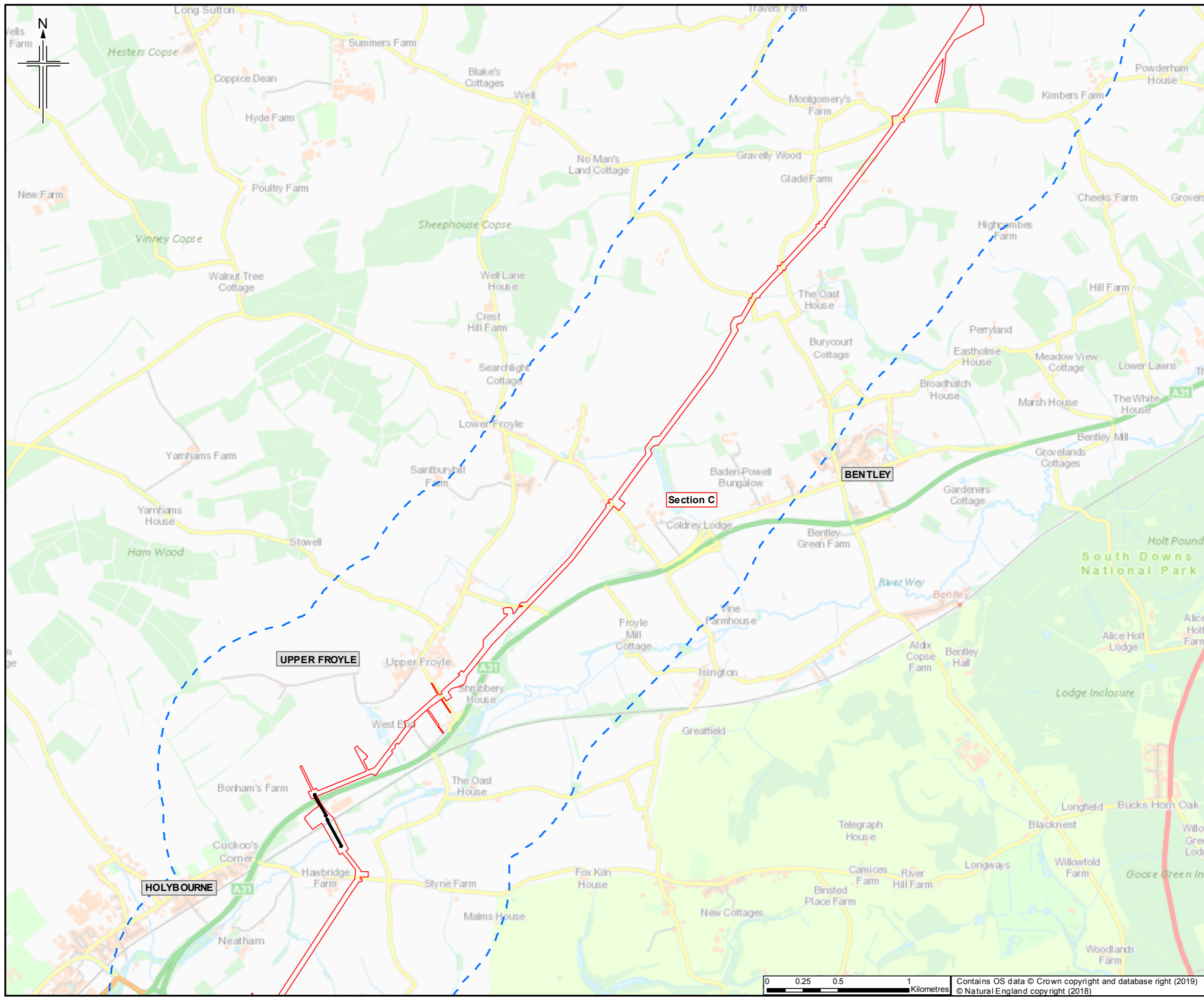


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**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

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JACOBS No.	B232 5300
Project/Work No.	B2325300-JAC-000-ENV-DRG-001628
Drawing number	Figure 7.8.1 Sheet 6 of 14
Rev	0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

Sheet displays part of Section C

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd

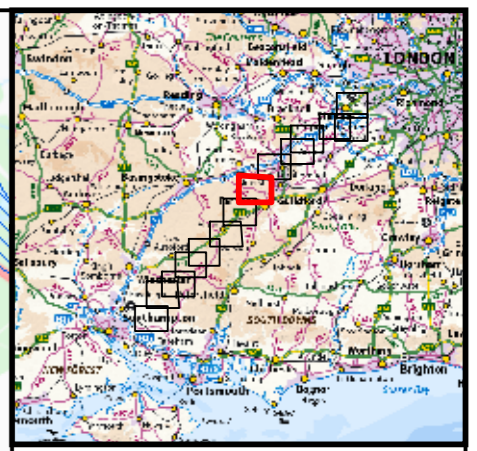
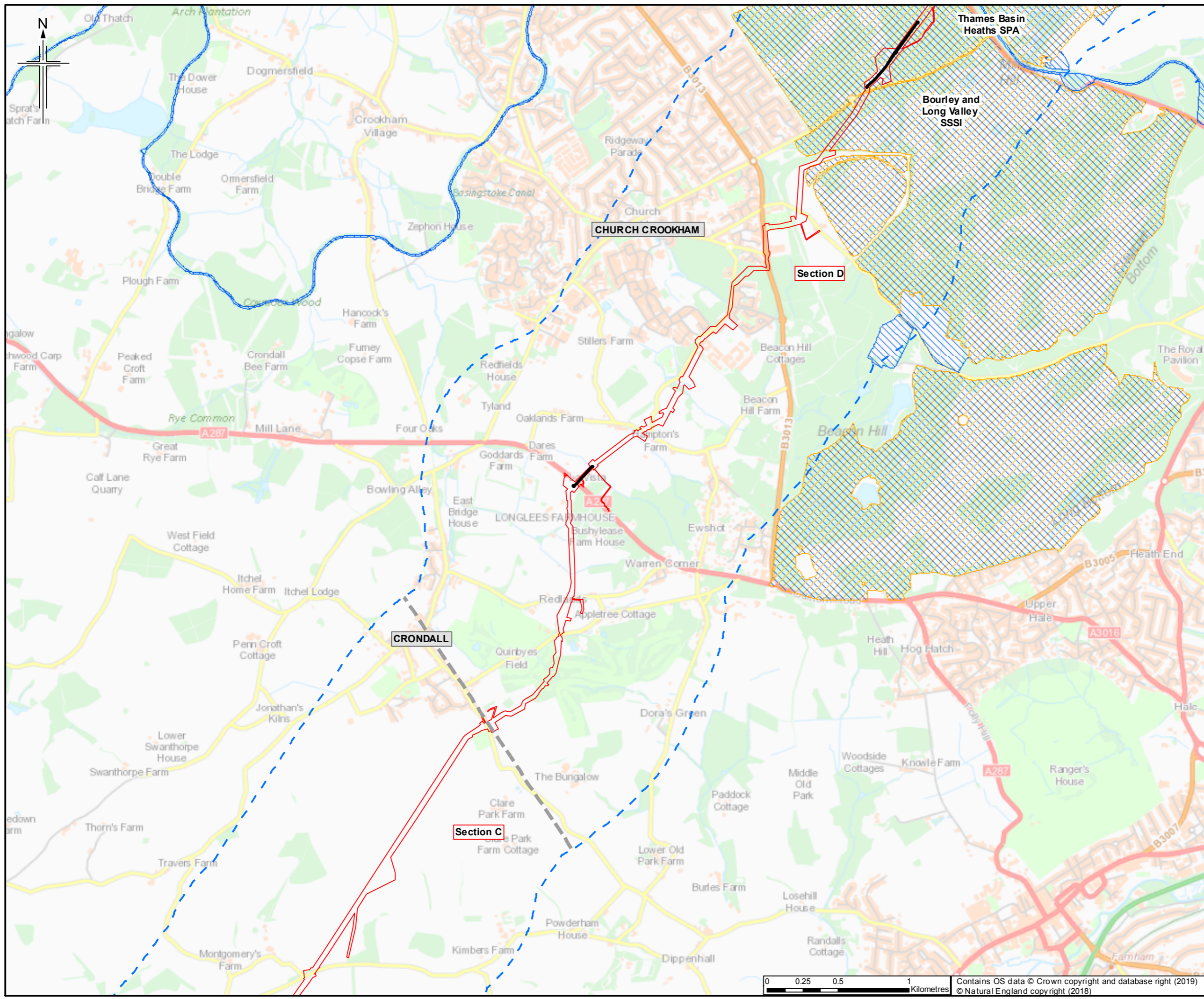


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**ENVIRONMENTAL STATEMENT DESIGNATED SITES WITH BIRD SPECIES AS QUALIFYING OR NOTIFIED FEATURES APFP Reg. (2009) 5(2)(l)**

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Project/Draw No.	B 232 5300-JAC-000-ENV-DRG-001628	
Drawing number	Figure 7.8.1 Sheet 7 of 14	Rev 0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

Sheet displays parts of Section C and Section D

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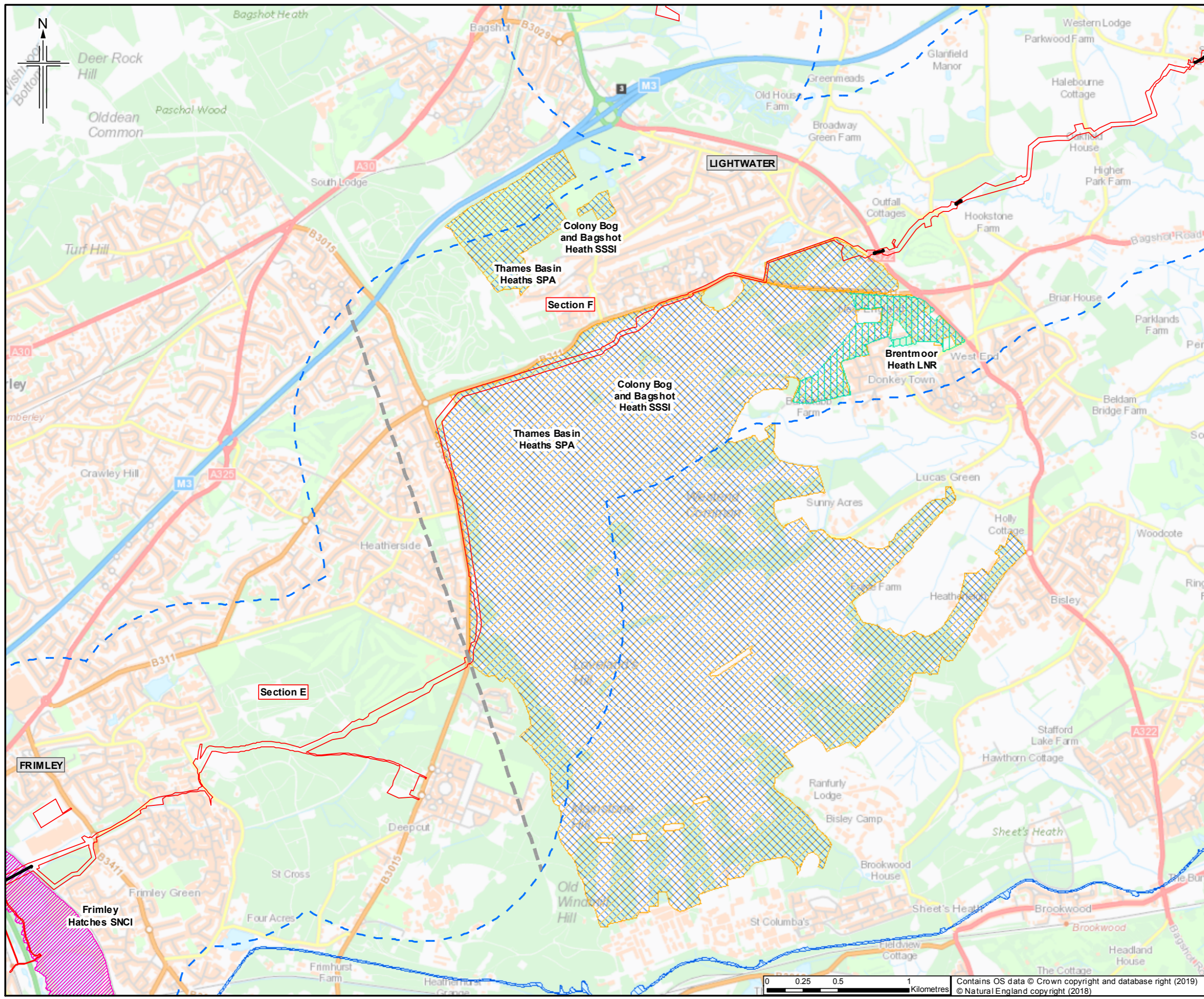
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Drawing number	Figure 7.8.1 Sheet 8 of 14
	Rev 0





- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
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Sheet displays parts of Section E and Section F

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd
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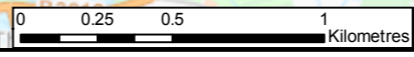
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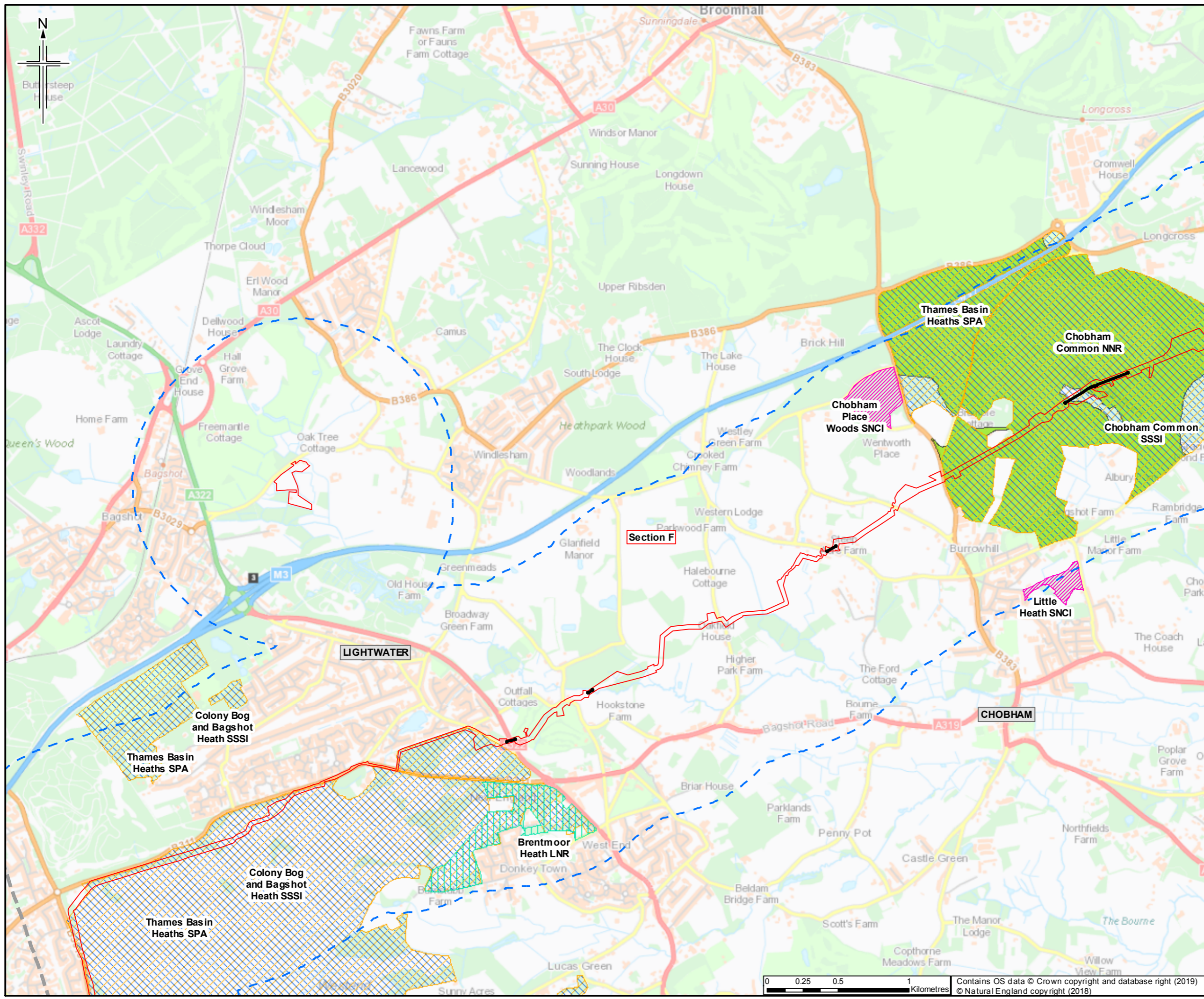
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**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

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- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
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Sheet displays part of Section F

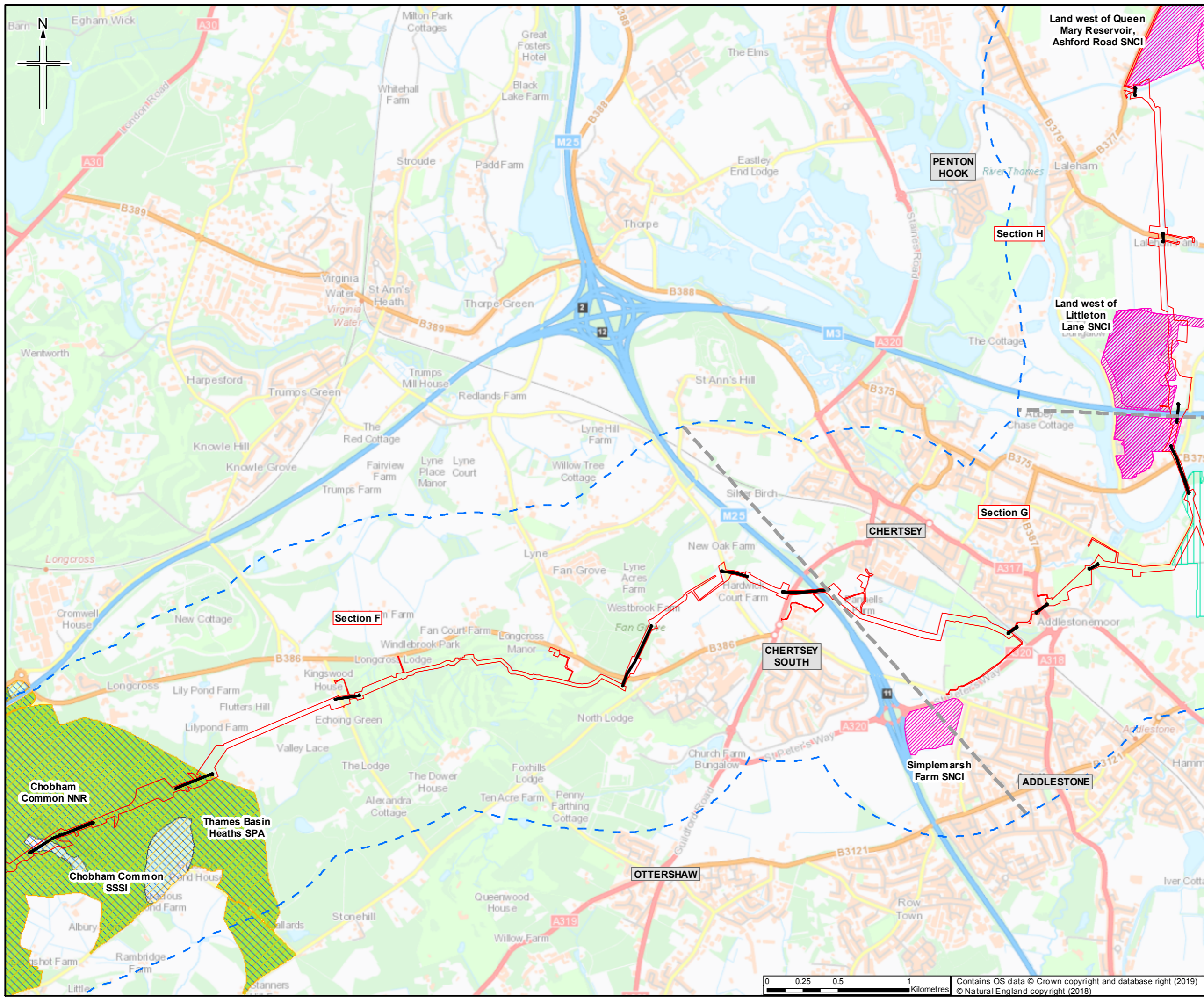
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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd
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**ENVIRONMENTAL STATEMENT DESIGNATED SITES WITH BIRD SPECIES AS QUALIFYING OR NOTIFIED FEATURES APFP Reg. (2009) 5(2)(l)**

Drawing Status	For Issue	
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Drawing number	Figure 7.8.1 Sheet 11 of 14	Rev 0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

Sheet displays parts of Section F, Section G and Section H

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd

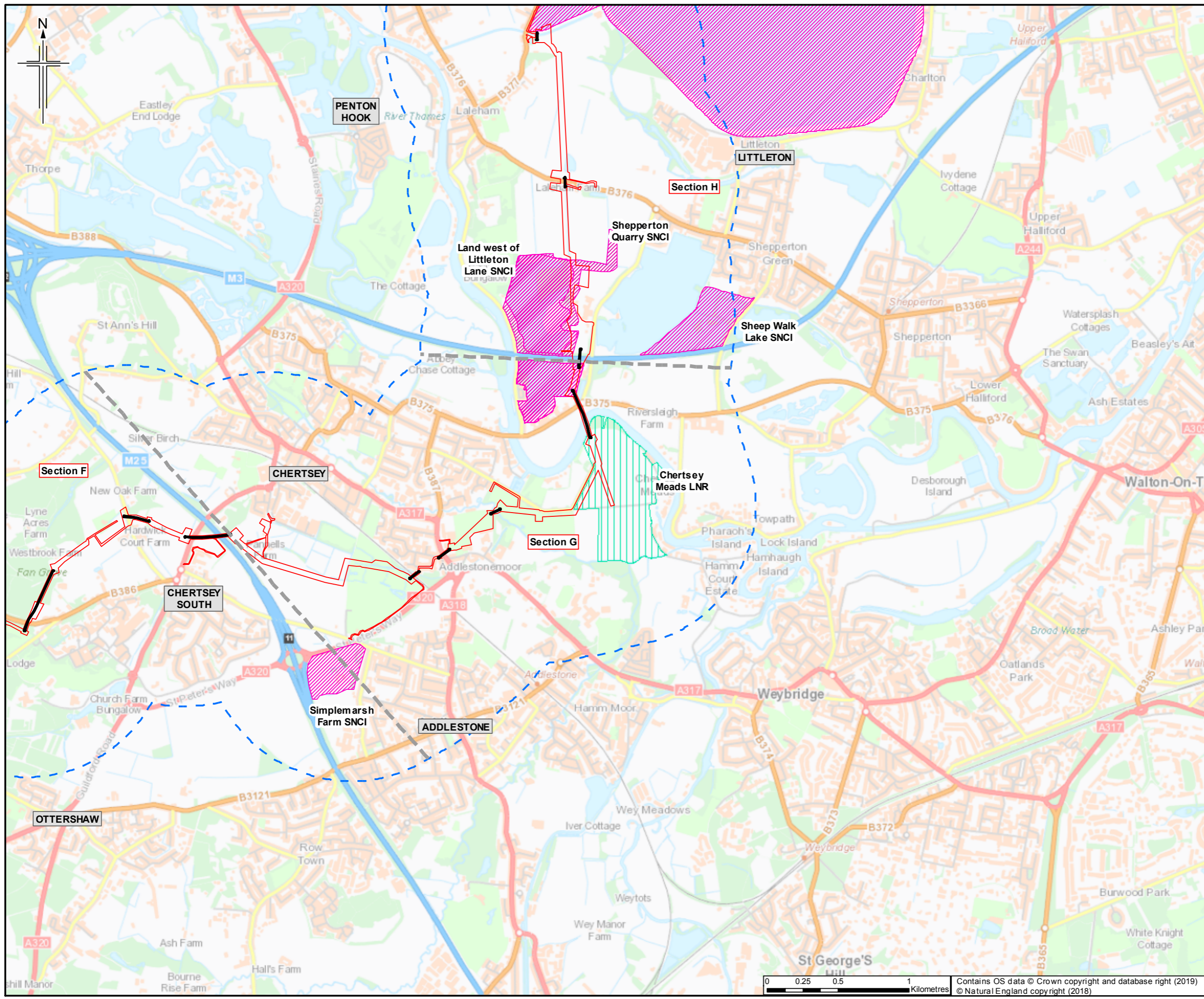


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Drawing title  
**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

Drawing Status	For Issue	
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ProjectWise No.	B2325300-JAC-000-ENV-DRG-001628	
Drawing number	Figure 7.8.1 Sheet 12 of 14	Rev 0



- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

Sheet displays parts of Section F, Section G and Section H

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd
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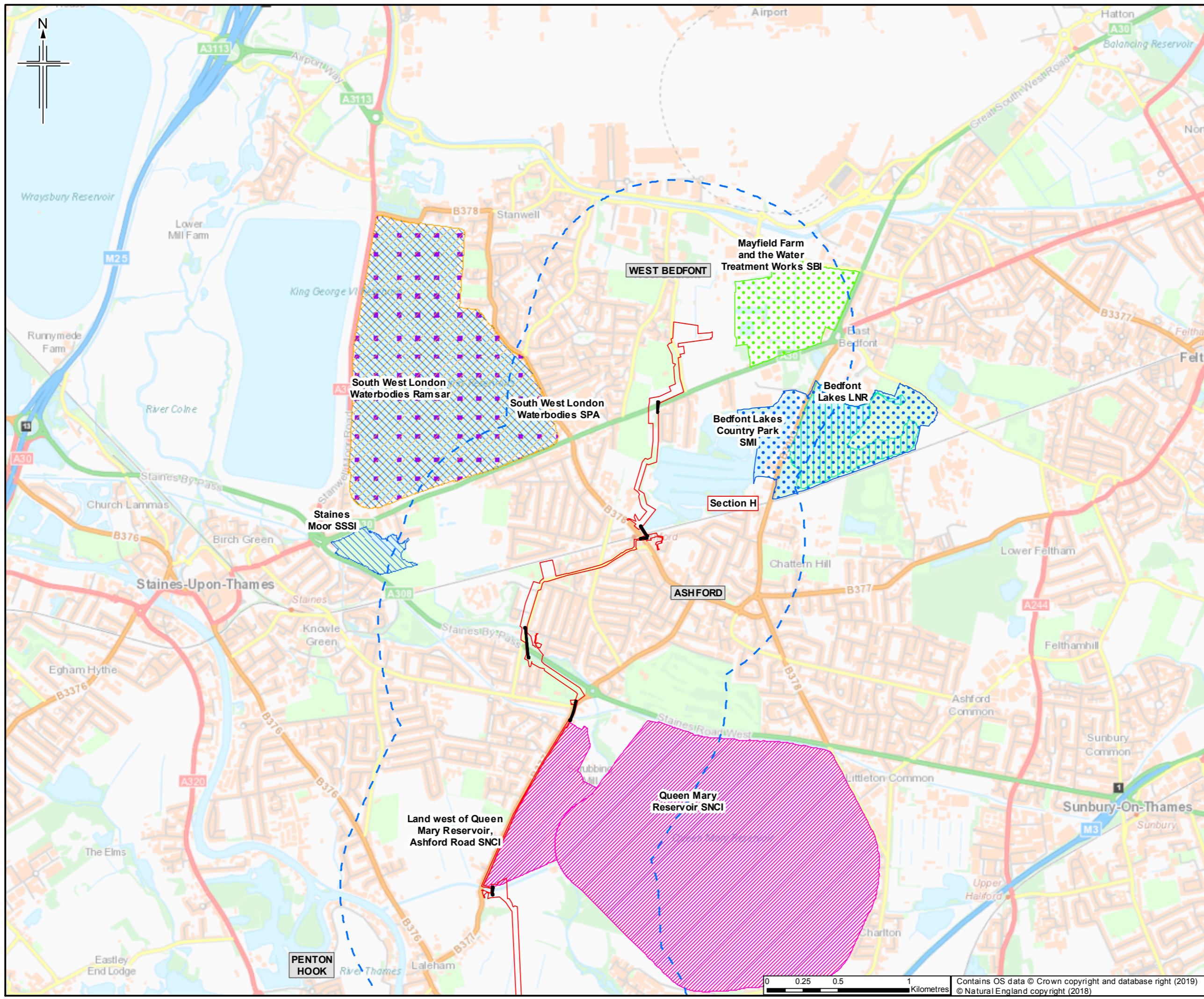
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**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

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Drawing number	Figure 7.8.1 Sheet 13 of 14	Rev 0





- Legend**
- Order Limits
  - Trenchless crossing
  - Order Limits 1km buffer
  - Section break
- Statutory designated sites**
- Special Protection Area
  - Ramsar
  - National Nature Reserve (NNR)
  - Site of Special Scientific Interest (SSSI)
  - Local Nature Reserve (LNR)
- Non-statutory designated sites**
- Sites of Nature Conservation Importance (SNCI)
  - Site of Borough Importance (SBI)
  - Site of Metropolitan Importance (SMI)

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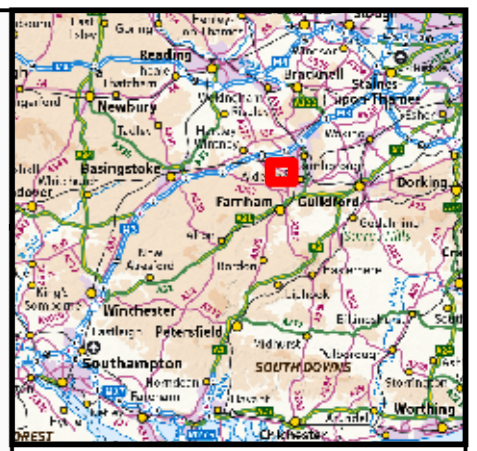
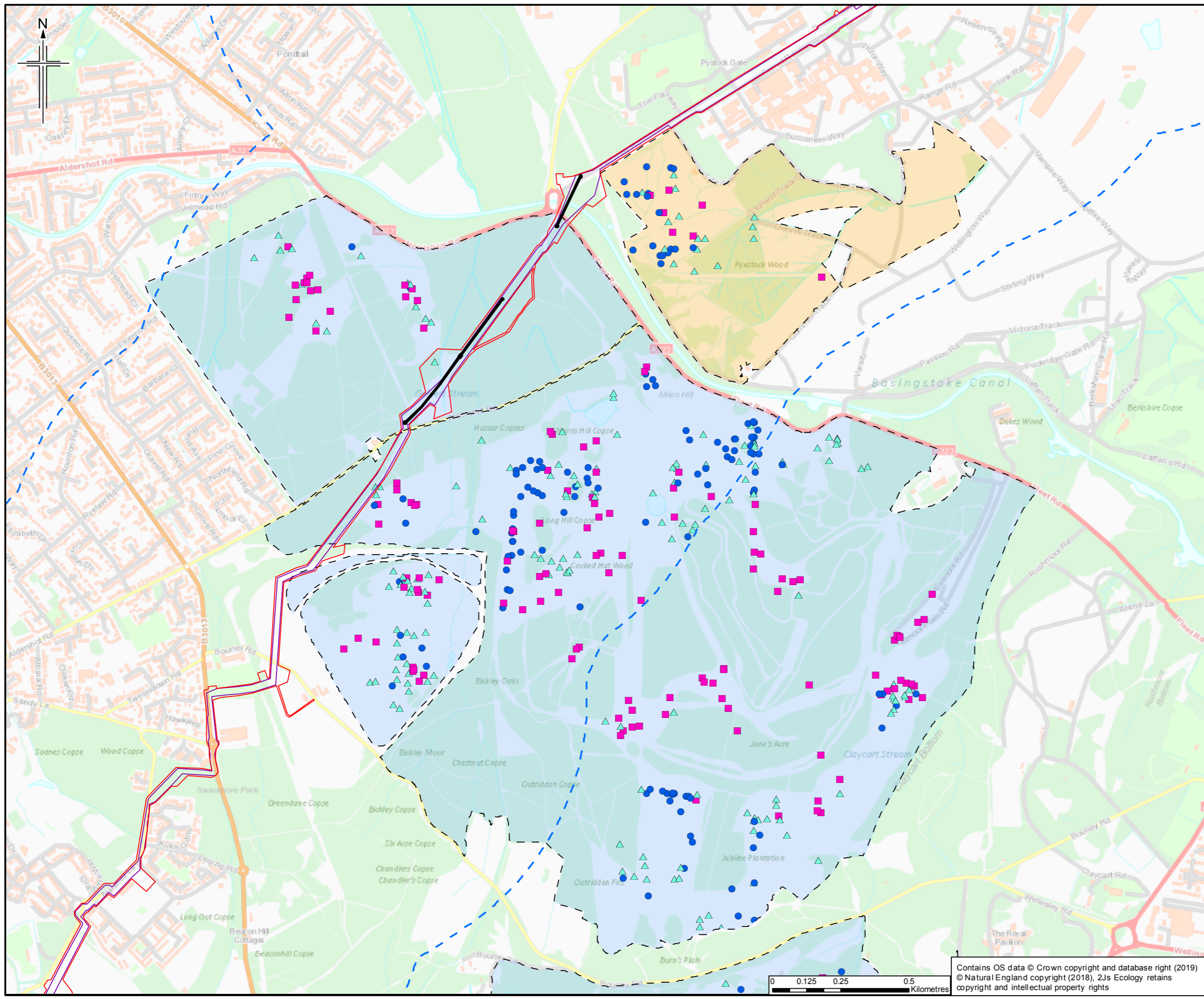


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**ENVIRONMENTAL STATEMENT  
DESIGNATED SITES WITH BIRD SPECIES  
AS QUALIFYING OR NOTIFIED FEATURES  
APFP Reg. (2009) 5(2)(l)**

Drawing Status	For Issue
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**Legend**

- Order Limits
- Limits of deviation
- Trenchless crossing
- Order Limits 1km buffer

**Thames Basin Heaths SPA constituent SSSIs**

- Bourley and Long Valley
- Eelmoor Marsh

**Species**

- Dartford Warbler
- ▲ Nightjar
- Woodlark

The mapped data are gathered as part of the annual survey of Annex 1 birds on the Thames Basin Heaths SPA coordinated by 2Js Ecology. The surveyors used the standard methodology used for national species surveys, with surveyors making at least two survey visits per species at the appropriate times of the year, as recommended by RSPB. The data points on the maps represent occupied territories, usually identified by the presence of territorial males. Most of the data points represent the estimated territory centre, otherwise, the nest was located.

Sheet displays part of Section D

8	5/3/2019	For Issue	MG	NS	DJ	SH
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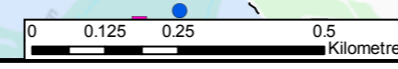
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 Esso Petroleum Company, Limited  
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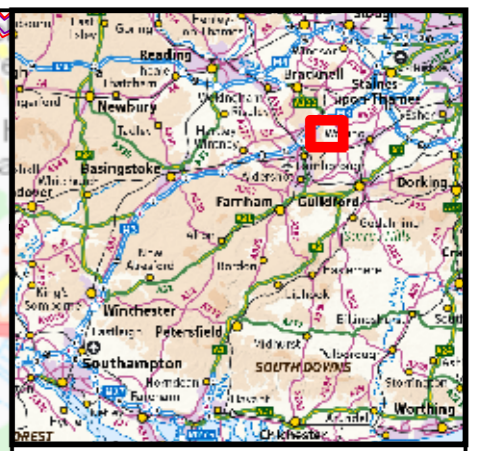
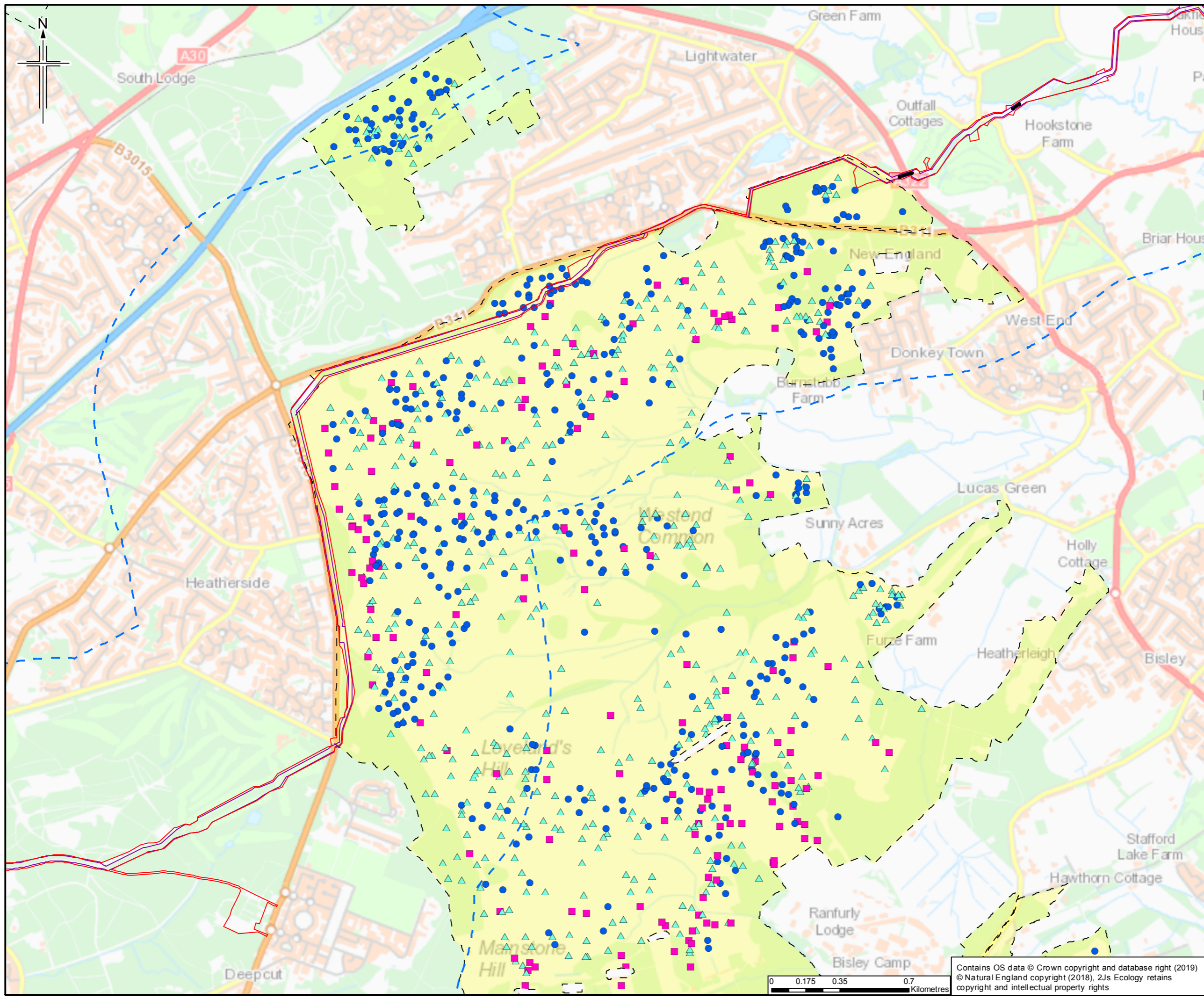
Project  
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Drawing title  
**ENVIRONMENTAL STATEMENT  
 BOURLEY AND LONG VALLEY AND  
 EELMOOR MARSH SSSI QUALIFYING  
 SPECIES BREEDING SITES 2008-2018  
 APFP Reg. (2009) 5(2)(l)**

Drawing Status	For Issue	
Scale	1:13,000 @ A3	DO NOT SCALE
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Project/Work No.	B2325300-JAC-000-GIS-DRG-001629	
Drawing number	Figure 7.8.2 Sheet 1 of 1	Rev 0

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- Legend**
- Order Limits
  - Limits of deviation
  - Order Limits 1km buffer
- Thames Basin Heaths SPA constituent SSSIs**
- Colony Bog and Bagshot Heath
- Species**
- Dartford Warbler
  - ▲ Nightjar
  - Woodlark

The mapped data are gathered as part of the annual survey of Annex 1 birds on the Thames Basin Heaths SPA coordinated by 2Js Ecology. The surveyors used the standard methodology used for national species surveys, with surveyors making at least two survey visits per species at the appropriate times of the year, as recommended by RSPB. The data points on the maps represent occupied territories, usually identified by the presence of territorial males. Most of the data points represent the estimated territory centre, otherwise, the nest was located.

Sheet displays parts of Section E and Section F

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Author

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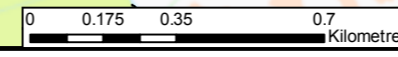
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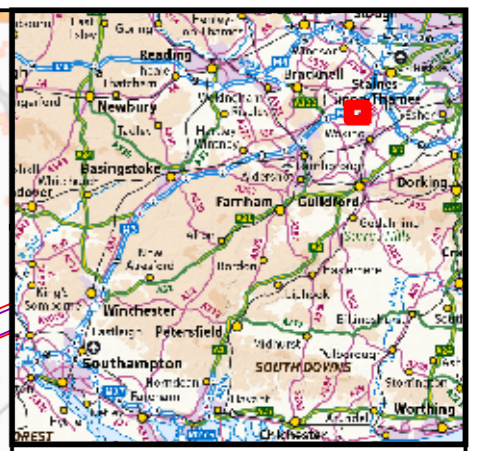
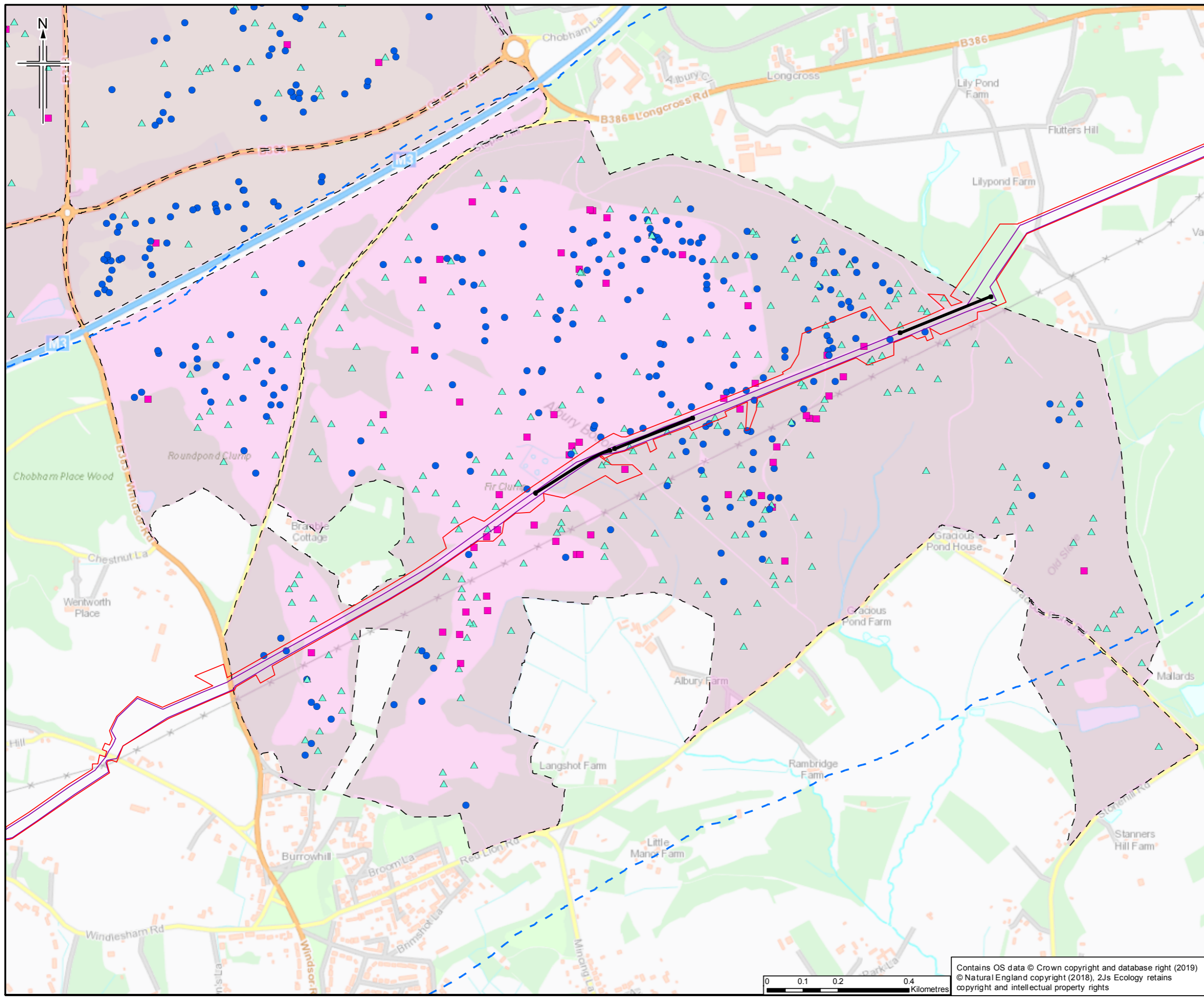
Project  
 Southampton to London Pipeline Project

Drawing title  
 ENVIRONMENTAL STATEMENT  
 COLONY BOG AND BAGSHOT HEATH SSSI  
 QUALIFYING SPECIES BREEDING  
 SITES 2008 - 2018  
 APFP Reg. (2009) 5(2)(l)

Drawing Status	For Issue	
Scale	1:10,000 @ A3	DO NOT SCALE
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Drawing number	Figure 7.8.3 Sheet 1 of 1	Rev 0

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- Legend**
- Order Limits
  - Limits of deviation
  - Trenchless crossing
  - Order Limits 1km buffer
- Thames Basin Heaths SPA constituent SSSIs**
- Chobham Common
- Species**
- Dartford Warbler
  - ▲ Nightjar
  - Woodlark

The mapped data are gathered as part of the annual survey of Annex 1 birds on the Thames Basin Heaths SPA coordinated by 2Js Ecology. The surveyors used the standard methodology used for national species surveys, with surveyors making at least two survey visits per species at the appropriate times of the year, as recommended by RSPB. The data points on the maps represent occupied territories, usually identified by the presence of territorial males. Most of the data points represent the estimated territory centre, otherwise, the nest was located.

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd



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**ENVIRONMENTAL STATEMENT  
CHOBHAM COMMON SSSI  
QUALIFYING SPECIES BREEDING  
SITES 2008 - 2018  
APFP Reg. (2009) 5(2)(l)**

Drawing Status	For Issue	
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