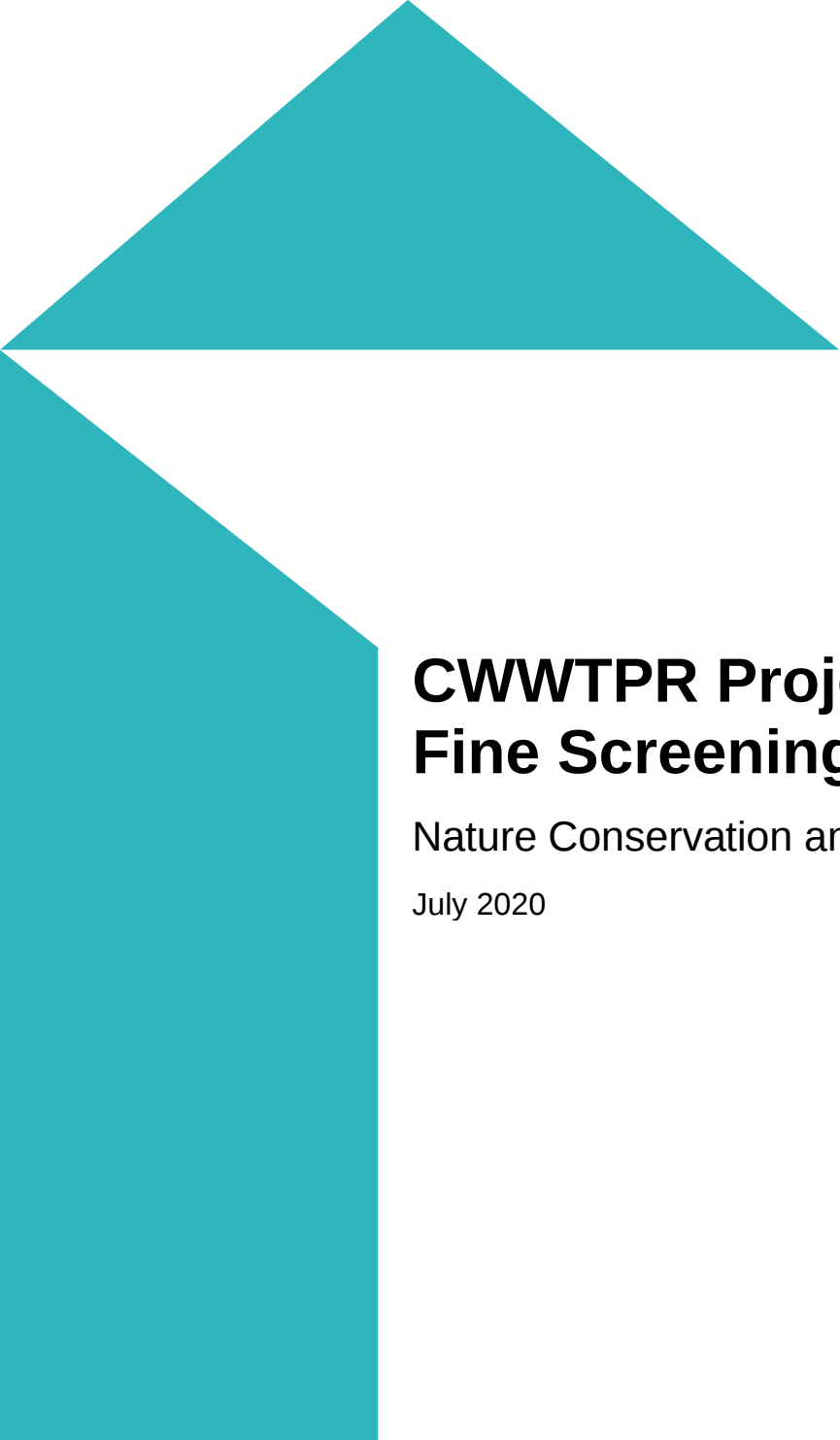




CWWTPR Project - Stage 3 Fine Screening

Nature Conservation and Biodiversity Appraisal

July 2020

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Mott MacDonald
22 Station Road
Cambridge CB1 2JD
United Kingdom

T +44 (0)1223 463500
mottmac.com

Anglian Water Services Ltd,
Lancaster House,
Ermine Business Park,
Lancaster Way,
Huntingdon,
PE29 6XU

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Contents

1	Methodology	1
2	Stage 3 Assessment Tables	4
3	Assumptions and Exclusions	12
A.	Protected Species Records	14
B.	Drawings	37

1 Methodology

The Stage 3 Fine Screening considered the impacts of the WWTP development on nature conservation and biodiversity within and around each of the proposed site areas.

The assessment comprised the following tasks:

- Identification of legally protected and notable species within a 5 km Ecological Zone of Influence (EZoI) around each of the proposed site areas. Data provided by Anglian Water were used to identify species (flora and fauna) with one or more of the following designations:
 - Species of Principal Importance (SPI) in England for the Conservation of Biodiversity listed under Section 41 of the Natural Environment & Rural Communities (NERC) Act 2006;
 - Species listed on the schedules of the Wildlife and Countryside Act 1981;
 - Red List species that are designated as “Nationally rare” (i.e. occurring in 15 or fewer hectads in Great Britain) or “Nationally scarce” (i.e. occurring in 16-100 hectads in Great Britain), excluding rare species qualifying under main IUCN criteria.
- Review of historical European Protected Species (EPS) licence applications within a 5 km EZoI around each of the proposed sites. This assessment was conducted using the MAGIC website (<https://magic.defra.gov.uk/home.htm>).
- Use of Ordnance Survey maps, aerial imagery and the MAGIC website to assess broad habitat types and to identify the presence of Habitats of Principal Importance (HPI; listed under Section 41 of the Natural Environment & Rural Communities (NERC) Act 2006) within each of the indicative WWTP boundaries. Additional high-level assessment of the suitability of identified habitat types to support protected species.
- Assessment of the likelihood of great crested newts (GCN) being present within a 0.5 km EZoI around each site area. Ordnance Survey maps and aerial imagery were used to assess the extent of potential GCN habitats with 0.25 km of the indicative WWTP boundaries. The protected species data provided by Anglian Water were also searched to identify all records of GCN within 0.5 km of each of the proposed site areas.
- Use of ordinance survey maps and aerial imagery to identify potential pathways for impact during the construction of pipeline routes and access roads on all statutory and non-statutory designated sites within a 1.0 km EZoI. Pathways identified were generally natural routes for wildlife migration, such as hedgerows, woodland or watercourses. However, where the designated site is within 0.5 km of the proposed route, it was considered that increased levels of noise, vibration, light and vehicular movement during construction could lead to habitat disruption and species displacement (i.e. potential for impact due to proximity despite lack of physical pathway).

The RAG scoring criteria, shown in Table 1.1, were defined to assess the potential ecological constraints at each of the seven shortlisted sites (A, B, C, H, I, J and L). Using the methodology described above, the following constraints have been assessed:

- Protected and notable species recorded within the indicative WWTP boundaries and within a 5 km EZoI (Appendix A);
- Habitat types within the indicative WWTP boundaries and their potential to support protected and/or notable species (Table 2.1);

- Potential for GCN within the indicative WWTP boundaries and within the EZoI (Table 2.2); and
- Potential ecological impact pathways to statutory and non-statutory designated sites during the construction of treated effluent discharge pipelines and WWTP access roads (Table 2.3).

Finally, the RAG scores for the individual components of the Stage 3 Fine Screening were combined with the Stage 2 Course Screening RAG scores¹ to provide an overall assessment of the potential ecological constraints at each of the proposed site areas. The overall RAG rating presented in Table 2.4 corresponds to the highest level of risk across the components of the Stage 3 Fine Screening (as described above) and the Stage 2 Coarse Screening.

¹ The Stage 2 Coarse Screening identified potential pathways for impact between the proposed WwTP sites and any designated areas of nature conservation or biodiversity importance (both statutory and non-statutory designations) within a 5.0 km EZoI.

Table 1.1: Stage 3 Fine Screening RAG assessment criteria

Potential ecological constraint	Green	Amber	Red
Protected and notable species recorded within 5.0 km EZoI	Confirmed records of notable species without specific legal protection (e.g. nationally rare or nationally scarce) recorded within indicative WWTP boundary or within a 0.5km EZoI of the indicative WWTP boundary; and/or Confirmed records of EPS species within 1.0km – 5.0km of the indicative WWTP boundary.	Confirmed records of protected species (e.g. SPI and species listed on the Wildlife and Countryside Act 1981) within a 5.0km EZoI of the indicative WWTP boundary; and/or Confirmed records of EPS species within 0.5km – 1.0 km of the indicative WWTP boundary.	Confirmed records of protected species (e.g. SPI and species listed on the Wildlife and Countryside Act 1981) within the indicative WWTP boundary; and/or Confirmed records of EPS species within the boundary of the proposed WWTP site or within a 0.5km EZoI of the indicative WWTP boundary.
Habitat types within the indicative WWTP boundaries	No Habitats of Principal Importance (HPI) within the indicative WWTP boundary; and Habitats present considered unlikely to support protected species.	HPI within the indicative WWTP boundary; Ancient woodland within 0.5km of the indicative WWTP boundary; and/or Potentially suitable habitat for protected species found within the indicative WWTP boundary.	Ancient woodland within the indicative WWTP boundary.
Potential for proposed site to support GCN	No GCN recorded within the indicative WWTP boundary or within a 0.5km EZoI of the indicative WWTP boundary; and Lack of suitable GCN habitat within the indicative WWTP boundary or within 0.5km of the indicative WWTP boundary.	No GCN recorded within the indicative WWTP boundary or within a 0.5km EZoI of the indicative WWTP boundary and Identification of habitat within the indicative WWTP boundary or within a 0.5km EZoI of the indicative WWTP boundary that has the potential to support GCN (e.g. ponds, ditches, drainage network).	GCN recorded within the indicative WWTP boundary or within a 0.5km EZoI of the indicative WWTP boundary.
Impact pathways between pipeline routes / access roads and statutory / non-statutory designated sites	No national, regional or local designations likely to be adversely affected, or effect likely to be positive. i.e. no pathways from indicative WWTP boundary.	Designation of regional or local importance likely to be adversely affected, i.e. a pathway from the indicative WWTP boundary was identified e.g. County Wildlife Sites, Country Parks	Designation of national and/or international importance and/or Ancient Woodland likely to be adversely affected, i.e. pathway from indicative WWTP boundary. e.g. Sites of Special Scientific Interest (SSSIs), Ancient Woodland (AW) a Local Nature Reserves (LNRs)
Potential future work	Further surveys required. Implementation of simple mitigation or precautionary mitigation measures likely but low risk.	Further surveys required. Consultation with County Ecologist may be required. Implementation of mitigation or precautionary mitigation measures likely.	Further surveys required. Consultation with Natural England may be required for proposed works impacting designated sites. Natural England mitigation licensing may be required. Mitigation measure may be intensive; including capture and relocation of potentially impacted species.

2 Stage 3 Assessment Tables

Table 2.1: Habitat types within proposed site areas and their potential to support protected species

Site area	Habitat type	Approximate area (km2)	Approximate % land cover	NERC Act (2006) Section 41 habitat of principal importance	Potential to support protected species	RAG rating
A	Arable land	0.53	99.0	N	Breeding birds	Amber
	Hedgerow	< 0.01	< 1.0	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Drain	< 0.01	< 1.0	N	Water voles, otters, great crested newts, spined loach	
B	Arable land	0.53	93.0	N	Breeding birds	Amber
	Hedgerows	0.01	2.0	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Deciduous woodland	< 0.01	< 1.0	Y	Bats, badgers, barn owls, reptiles	
	Pond	< 0.01	< 1.0	Y	Great crested newts, water voles	
	Drain	< 0.01	< 1.0	N	Water voles, otters, great crested newts, spined loach	
C	Arable land	0.40	97.0	N	Breeding birds	Amber
	Deciduous woodland	0.01	2.5	Y	Bats, badgers, barn owls, reptiles	
	Hedgerow	< 0.01	< 1.0	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Drain	< 0.01	< 1.0	N	Water voles, otters, great crested newts, spined loach	
H	Arable land	1.57	94.5	N	Breeding birds	Amber
	Deciduous woodland	0.06	3.6	Y	Bats, badgers, barn owls, reptiles	
	Hedgerow	0.02	1.2	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Drain	0.01	< 1.0	N	Water voles, otters, great crested newts, spined loach	
I	Arable land	0.64	94.0	N	Breeding birds	Amber
	Hedgerow	0.02	3.0	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Deciduous woodland	0.01	1.5	Y	Bats, badgers, barn owls, reptiles	
	Drain	0.01	1.5	N	Water voles, otters, great crested newts, spined loach	

Site area	Habitat type	Approximate area (km2)	Approximate % land cover	NERC Act (2006) Section 41 habitat of principal importance	Potential to support protected species	RAG rating
J	Arable land	0.49	92.0	N	Breeding birds	Amber
	Deciduous woodland	0.03	6.0	Y	Bats, badgers, barn owls, reptiles	
	Hedgerow	0.01	2.0	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Drain	< 0.01	< 1.0	N	Water voles, otters, great crested newts, spined loach	
L	Arable land	1.27	99.0	N	Breeding birds	Amber
	Hedgerow	< 0.01	< 1.0	Y	Badgers, bats, reptiles, barn owls, breeding birds	
	Drain	< 0.01	< 1.0	N	Water voles, otters, great crested newts, spined loach	

Table 2.2: Great crested newt assessment

Site area	GCN recorded within 0.5 km of site area	Waterbodies within 0.25 km of site area	Approximate distance from site area (km)	Location	Approximate area or length	RAG rating
A	No	Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	3.6 km	Amber
		Pond	0.23	In EZol, south of proposed site area, north of Rampton (TL424683)	< 0.01 km ²	
B	No	Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	3.7 km	Amber
		Reynolds Ditch (County Wildlife Site)	< 0.01 – 0.25	In Zol, adjacent to southern perimeter of proposed site area in EZol	0.5 km	
C	No	Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	2.3 km	Amber
H	No	Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	8.0 km	Amber
		Beach Ditch & Engine Drain (County Wildlife Site)	0.13	In EZol, adjacent to northern perimeter of proposed site area	0.7 km	
I	No	Pond	0.17	In EZol, south east of proposed site area, north of Milton (TL475635)	0.01 km ²	Amber
		Pond	0.19	In EZol, south east of proposed site area, north of Milton (TL476635)	< 0.01 km ²	
		Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	2.8 km	
J	No	Pond	0.22	In EZol, north of proposed site area, south of Green Gates Farm (TL459634)	< 0.01 km ²	Amber
		Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	2.73 km	

Site area	GCN recorded within 0.5 km of site area	Waterbodies within 0.25 km of site area	Approximate distance from site area (km)	Location	Approximate area or length	RAG rating
L	No	Pond	0.14	In EZol, east of proposed site area, north of Biggin Pin Plantation	< 0.01 km2	Amber
		Pond	0.22	In EZol, north east of proposed site area, east of Gayton Farm (TL499627)	< 0.01 km2	
		Drainage network	0 – 0.25	Within proposed site area and throughout 250 m EZol	< 0.01 km2	

Table 2.3: Statutory and non-statutory sites RAG assessment for pipelines and site access roads

Site area	Route	Designated areas within 1 km	Approximate distance (km)	Designation	Potential impact pathway	RAG rating
A	Access road	Ashley Farm Orchard	0.5	County Wildlife Site	Potential for impact due to proximity.	Amber
	Pipeline to new outfall north-east of Milton	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Amber
		River Great Ouse		County Wildlife Site	Potential for impact due to hydrological connectivity between the pipeline and the River Great Ouse via the River Cam and via the drainage network.	
		Beach Ditch & Engine Drain	0.0	Local Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity with drainage system.	
		Ashley Farm Orchard	0.5	County Wildlife Site	Potential for impact due to proximity.	
		Worts Meadow	0.6	Local Nature Reserve	No impact expected.	
		Milton	1.0	Country Park	No impact expected.	
B	Access road	None				Green
	Pipeline to new outfall north-east of Milton	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Amber
		River Great Ouse		County Wildlife Site	Potential for impact due to hydrological connectivity between the pipeline and the River Great Ouse via the River Cam and via the drainage network.	
		Beach Ditch & Engine Drain	0.0	Local Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity with drainage system.	
		Worts Meadow	0.6	Local Nature Reserve	No impact expected.	
		Ashley Farm Orchard	1.0	County Wildlife Site	No impact expected.	
		Milton	1.0	Country Park	No impact expected.	

Site area	Route	Designated areas within 1 km	Approximate distance (km)	Designation	Potential impact pathway	RAG rating
C	Access road	None				Green
	Pipeline to new outfall north-east of Milton	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Amber
		River Great Ouse		County Wildlife Site	Potential for impact due to hydrological connectivity between the pipeline and the River Great Ouse via the River Cam and via the drainage network.	
		Beach Ditch & Engine Drain	0.0	Local Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity with drainage system.	
		Worts Meadow	0.6	Local Nature Reserve	No impact expected.	
		Milton	1.0	Country Park	No impact expected.	
H	Access road	None				Green
	Pipeline to new outfall north-east of Milton	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Amber
		River Great Ouse		County Wildlife Site	Potential for impact due to hydrological connectivity between the pipeline and the River Great Ouse via the River Cam and via the drainage network.	
		Worts Meadow	0.6	Local Nature Reserve	No impact expected.	
		Beach Ditch & Engine Drain	0.8	Local Wildlife Site	No impact expected.	
		Milton	1.0	Country Park	No impact expected.	

Site area	Route	Designated areas within 1 km	Approximate distance (km)	Designation	Potential impact pathway	RAG rating
I	Access road	None				Green
	Pipeline to new outfall north-east of Milton	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Amber
		River Great Ouse		County Wildlife Site	Potential for impact due to hydrological connectivity between the pipeline and the River Great Ouse via the River Cam and via the drainage network.	
		Milton	1.0	Country Park	No impact expected.	
J	Access road	None				Green
	Pipeline to new outfall north-east of Milton	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Amber
		River Great Ouse		County Wildlife Site	Potential for impact due to hydrological connectivity between the pipeline and the River Great Ouse via the River Cam and via the drainage network.	
		Milton	1.0	Country Park	No impact expected.	
L	Access Road	Low Fen Drove Way Grasslands and Hedges	0.0	County Wildlife Site	Potential for impact due to proximity	Amber
	Pipeline new outfall – North of A14	River Cam	0.0	County Wildlife Site	Potential for impact due to proximity and due to hydrological connectivity between the pipeline and the River Cam.	Red
		Stow-cum-Quy Fen	0.8	SSSI	Potential for impact due to hydrological connectivity between the pipeline route and field drains	
		Allicky Farm Pond	0.9	County Wildlife Site	No impact expected	

Table 2.4: Overall RAG Assessment

Site area	Stage 2 Coarse Screening	Protected species	Habitats	GCN	Access Roads and pipelines	Overall	Comment(s)
A	Amber	Amber	Amber	Amber	Amber	Amber	
B	Green	Red	Amber	Amber	Amber	Red	Categorised as Red due to reports of protected species within the indicative WWTP boundary (see Table A.2).
C	Green	Amber	Amber	Amber	Amber	Amber	
H	Red	Amber	Amber	Amber	Amber	Red	Categorised as Red due to the identification of potential impact pathways between the site area and either statutory or non-statutory designated sites during the Stage 2 Coarse Screening.
I	Red	Red	Amber	Amber	Amber	Red	Categorised as Red due to the identification of potential impact pathways between the site area and both statutory or non-statutory designated sites during the Stage 2 Coarse Screening and due to reports of protected species within the indicative WWTP boundary (see Table A.2)
J	Green	Red	Amber	Amber	Amber	Red	Categorised as Red due to reports of protected species within the indicative WWTP boundary (see Table A.2).
L	Red	Red	Amber	Amber	Red	Red	Categorised as Red due to the identification of potential impact pathways between the site area and both statutory or non-statutory designated sites during the Stage 2 Coarse Screening and due to reports of protected species within the indicative WWTP boundary (see Table A.2).

3 Assumptions and Exclusions

- RAG Assessment criteria is based on the methodology described above and the designated sites and protected species information available.
- All measurements are approximate.
- Absence of species records should not preclude the presence of species, as species are generally under recorded.
- Protected species data are of inconsistent resolution. Some species have been assumed to occur within 1.0 km of the site in the absence of more detailed records.
- Protected species data is of varying ages and some may no longer be relevant.
- In the absence of habitat suitability index scores, all waterbodies within 0.25 km of the indicative WWTP boundaries are considered to have potential to host great crested newts.
- The majority of the NERC Act Section 41 moth species listed in Appendix A.1 are "research only". These are common or widespread species, which have been highlighted as they are subject to pressures causing their decline. However, they do not qualify as nationally scarce and there are no actions defined for their conservation.

Appendices

A. Protected Species Records

Table A.1: Protected species within 5km EZol

Taxon group	Common name	Latin name	Designation(s)	Site area							
				A	B	C	H	I	J	L	
Amphibian	Great crested newt	Triturus cristatus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	
	Common toad	Bufo bufo	Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	
Bird	Avocet	Recurvirostra avosetta	Wildlife and Countryside Act 1981 (Schedule 1)	Y		Y	Y	Y		Y	
	Barn owl	Tyto alba	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Bearded tit	Panurus biarmicus	Wildlife and Countryside Act 1981 (Schedule 1)		Y					Y	
	Bewick's swan	Cygnus columbianus subsp. Bewickii	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	
	Bittern	Botaurus stellaris	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England		Y	Y	Y	Y	Y	Y	
	Black redstart	Phoenicurus ochruros	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Black-necked Grebe	Podiceps nigricollis	Wildlife and Countryside Act 1981 (Schedule 1)			Y	Y	Y	Y	Y	
	Black-tailed Godwit	Limosa limosa	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Brambling	Fringilla montifringilla	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Cetti's warbler	Cettia cetti	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Common crossbill	Loxia curvirostra	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Common scoter	Melanitta nigra	Wildlife and Countryside Act 1981 (Schedule 1)							Y	
	Dartford warbler	Sylvia undata	Wildlife and Countryside Act 1981 (Schedule 1)			Y	Y	Y	Y	Y	
	Dotterel	Charadrius morinellus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y				Y	Y	
	Fieldfare	Turdus pilaris	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	
	Firecrest	Regulus ignicapilla	Wildlife and Countryside Act 1981 (Schedule 1)			Y	Y	Y		Y	
	Garganey	Anas querquedula	Wildlife and Countryside Act 1981 (Schedule 1)	Y		Y	Y	Y	Y	Y	
	Greylag goose	Anser anser	Wildlife and Countryside Act 1981 (Schedule 1)							Y	
	Golden oriole	Oriolus oriolus	Wildlife and Countryside Act 1981 (Schedule 1)				Y	Y	Y	Y	
	Goshawk	Accipiter gentilis	Wildlife and Countryside Act 1981 (Schedule 1)				Y	Y	Y	Y	
	Green sandpiper	Tringa ochropus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	

Greenshank	Tringa nebularia	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Hen harrier	Circus cyaneus	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y		Y
Hobby	Falco subbuteo	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Honey-buzzard	Pernis apivorus	Wildlife and Countryside Act 1981 (Schedule 1)					Y	Y	Y
Kingfisher	Alcedo atthis	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Leach's petrel	Oceanodroma leucorhoa	Wildlife and Countryside Act 1981 (Schedule 1)						Y	Y
Little gull	Hydrocoloeus minutus	Wildlife and Countryside Act 1981 (Schedule 1)			Y	Y	Y	Y	Y
Little ringed plover	Charadrius dubius	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Marsh harrier	Circus aeruginosus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Mediterranean gull	Larus melanocephalus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Merlin	Falco columbarius	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Montagu's harrier	Circus pygargus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y		
Osprey	Pandion haliaetus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Pallid harrier	Circus macrourus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y				
Peregrine	Falco peregrinus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Purple heron	Ardea purpurea	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y					
Quail	Coturnix coturnix	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Red kite	Milvus milvus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Red-backed Shrike	Lanius collurio	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y			Y	Y	Y	
Redwing	Turdus iliacus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Ruff	Calidris pugnax	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y		Y
Scaup	Aythya marila	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England					Y	Y	Y
Shore lark	Eremophila alpestris	Wildlife and Countryside Act 1981 (Schedule 1)	Y						
Slavonian grebe	Podiceps auritus	Wildlife and Countryside Act 1981 (Schedule 1)					Y	Y	Y
Snow bunting	Plectrophenax nivalis	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y
Spoonbill	Platalea leucorodia	Wildlife and Countryside Act 1981 (Schedule 1)		Y					
Spotted crane	Porzana porzana	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y			
Stone-curlew	Burhinus oedipnemos	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y		Y
Whimbrel	Numenius phaeopus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y

Whooper swan	Cygnus cygnus	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	Y
Wood sandpiper	Tringa glareola	Wildlife and Countryside Act 1981 (Schedule 1)	Y		Y	Y	Y	Y	Y	Y
Wryneck	Jynx torquilla	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y			Y	Y
Goldeneye	Bucephala clangula	Wildlife and Countryside Act 1981 (Schedule 1)			Y	Y	Y	Y	Y	Y
Greylag goose	Anser anser	Wildlife and Countryside Act 1981 (Schedule 1)	Y	Y	Y	Y	Y	Y	Y	Y
Pintail	Anas acuta	Wildlife and Countryside Act 1981 (Schedule 1)	Y		Y	Y	Y	Y	Y	Y
Arctic skua	Stercorarius parasiticus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y		Y	Y	Y	Y	Y	Y
Brent goose	Branta bernicla	NERC ACT 2006. Section 41: Species of Principal Importance in England							Y	Y
Bullfinch	Pyrrhula pyrrhula	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Corn bunting	Emberiza calandra	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Cuckoo	Cuculus canorus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Curlew	Numenius arquata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Duncock	Prunella modularis	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Grasshopper warbler	Locustella naevia	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Grey partridge	Perdix perdix	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Hawfinch	Coccothraustes coccothraustes	NERC ACT 2006. Section 41: Species of Principal Importance in England			Y	Y	Y	Y		
House sparrow	Passer domesticus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Lapwing	Vanellus vanellus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Lesser redpoll	Acanthis cabaret	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Lesser spotted woodpecker	Dendrocopos minor	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Linnet	Linaria cannabina	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Marsh tit	Poecile palustris	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y		
Reed bunting	Emberiza schoeniclus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Ring ouzel	Turdus torquatus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y
Skylark	Alauda arvensis	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y	Y

	Song thrush	<i>Turdus philomelos</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Spotted flycatcher	<i>Muscicapa striata</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Starling	<i>Sturnus vulgaris</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Tree pipit	<i>Anthus trivialis</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England				Y	Y		Y
	Tree sparrow	<i>Passer montanus</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Turtle dove	<i>Streptopelia turtur</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	White-fronted Goose	<i>Anser albifrons</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y		Y	Y	Y	Y	Y
	Wood warbler	<i>Phylloscopus sibilatrix</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y		Y
	Yellow wagtail	<i>Motacilla flava</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Yellow wagtail	<i>Motacilla flava</i> subsp. <i>Flavissima</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y					Y	
	Yellowhammer	<i>Emberiza citrinella</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
Bony fish (Actinopterygii)	Brown Trout	<i>Salmo trutta</i> subsp. <i>fario</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England						Y	
Fern	Maidenhair Fern	<i>Adiantum capillus-veneris</i>	Nationally scarce					Y	Y	
Flowering plant	Annual Beard-grass	<i>Polypogon monspeliensis</i>	Nationally scarce			Y	Y	Y	Y	Y
	Basil thyme	<i>Clinopodium acinos</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England			Y	Y	Y		
	Bermuda-grass	<i>Cynodon dactylon</i>	Nationally rare					Y	Y	Y
	Bur medick	<i>Medicago minima</i>	Nationally scarce				Y	Y	Y	
	Chives	<i>Allium schoenoprasum</i>	Nationally scarce				Y	Y	Y	Y
	Corn buttercup	<i>Ranunculus arvensis</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England			Y	Y			
	Corn cleavers	<i>Galium tricornutum</i>	Nationally rare				Y	Y	Y	Y
	Cornflower	<i>Centaurea cyanus</i>	NERC ACT 2006. Section 41: Species of Principal Importance in England			Y	Y			Y
	Dittander	<i>Lepidium latifolium</i>	Nationally scarce		Y	Y		Y	Y	Y
	Dwarf Mouse-ear	<i>Cerastium pumilum</i>	Nationally scarce				Y	Y	Y	Y
	Early Meadow-grass	<i>Poa infirma</i>	Nationally scarce						Y	Y
	Fang-toothed Hawkweed	<i>Hieracium diaphanum</i>	Nationally rare				Y	Y	Y	Y

Fen pondweed	Potamogeton coloratus	Nationally scarce	Y	Y
Few-flowered Fumitory	Fumaria vaillantii	Nationally scarce	Y	
Fine-leaved Fumitory	Fumaria parviflora	Nationally scarce	Y	
Fly orchid	Ophrys insectifera	UK BAP		Y
Fringed Water-lily	Nymphoides peltata	Nationally scarce	Y	Y
Fritillary	Fritillaria meleagris	Nationally scarce	Y	
Galingale	Cyperus longus	Nationally scarce	Y	Y
Gold-of-pleasure	Camelina sativa	Nationally scarce	Y	Y
Hoary mullein	Verbascum pulverulentum	Nationally scarce	Y	Y
Jersey cudweed	Gnaphalium luteoalbum	Wildlife and Countryside Act 1981 (Schedule 8)	Y	Y
Marsh-mallow	Althaea officinalis	Nationally scarce	Y	Y
Mezereon	Daphne mezereum	Nationally scarce	Y	Y
Perennial Flax	Linum perenne	Nationally scarce		Y
Purple fescue	Vulpia ciliata subsp. Ambigua	Nationally scarce	Y	Y
Sea-buckthorn	Hippophae rhamnoides	Nationally scarce	Y	Y
Shepherd's-needle	Scandix pecten-veneris	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	
Sickle medick	Medicago sativa subsp. Falcata	Nationally scarce		Y
Slender tare	Vicia parviflora	Nationally scarce	Y	Y
Spreading Hedge-parsley	Torilis arvensis	Nationally scarce	Y	Y
Stinking hellebore	Helleborus foetidus	Nationally scarce		Y
Tasteless Water-pepper	Persicaria mitis	Nationally scarce	Y	Y
Toothed medick	Medicago polymorpha	Nationally scarce	Y	Y
Tubular Water-dropwort	Oenanthe fistulosa	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	
Wall bedstraw	Galium parisiense	Nationally scarce	Y	Y
Welsh poppy	Meconopsis cambrica	Nationally scarce	Y	Y
White Helleborine	Cephalanthera damasonium	NERC ACT 2006. Section 41: Species of Principal Importance in England		Y

	White mullein	Verbascum lychnitis	Nationally scarce	Y	Y	Y	Y
	Yellow vetchling	Lathyrus aphaca	Nationally scarce		Y		
Insect - beetle (Coleoptera)	Abdera biflexuosa	Abdera biflexuosa	Nationally scarce			Y	
	Adonis' ladybird	Hippodamia (Adonia) variegata	Nationally scarce	Y	Y	Y	Y
	Agrilus (Anambus) laticornis	Agrilus (Anambus) laticornis	Nationally scarce				Y
	Alder flea weevil	Orchestes (Orchestes) testaceus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y		
	Amidobia talpa	Amidobia talpa	Nationally scarce	Y	Y		
	Ampedus quercicola	Ampedus quercicola	Nationally scarce	Y	Y		
	Anaglyptus mysticus	Anaglyptus mysticus	Nationally scarce		Y	Y	Y
	Anobium inexpectatum	Anobium inexpectatum	Nationally scarce				Y
	Anthribus nebulosus	Anthribus nebulosus	Nationally scarce		Y	Y	
	Aphodius (Limarus) zenkeri	Aphodius (Limarus) zenkeri	Nationally scarce				Y
	Athous (Orthathous) campyloides	Athous (Orthathous) campyloides	Nationally scarce				Y
	Aulonium trisulcus	Aulonium trisulcus	Nationally scarce	Y	Y	Y	Y
	Badister (Badister) unipustulatus	Badister (Badister) unipustulatus	Nationally scarce		Y	Y	
	Bagous (Hydronomus) alismatis	Bagous (Hydronomus) alismatis	Nationally scarce	Y			
	Barley flea beetle	Phyllotreta vittula	Nationally scarce		Y	Y	
	Belladonna flea beetle	Epitrix atropae	Nationally scarce	Y			Y
	Berosus (Berosus) luridus	Berosus (Berosus) luridus	Nationally scarce	Y			
	Bloody cranesbill weevil	Zacladus exiguus	Nationally scarce		Y	Y	
	Brush-thighed Seed-eater	Harpalus (Harpalus) froelichii	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y			

Carpelimus obesus	Carpelimus obesus	Nationally scarce	Y	Y	Y	Y	
Cassida prasina	Cassida prasina	Nationally scarce			Y	Y	
Cercyon (Cercyon) bifenestratus	Cercyon (Cercyon) bifenestratus	Nationally scarce	Y	Y	Y	Y	
Chrysolina oricalcia	Chrysolina oricalcia	Nationally scarce					Y Y
Cobweb beetle	Ctesias serra	Nationally scarce					Y Y
Cossonus linearis	Cossonus linearis	Nationally scarce					Y
Crudosilis ruficollis	Crudosilis ruficollis	Nationally scarce					Y Y Y
Demetrias (Risophilus) imperialis	Demetrias (Risophilus) imperialis	Nationally scarce					Y Y Y
Diplapion stolidum	Diplapion stolidum	Nationally scarce			Y	Y Y	
Diplocoelus fagi	Diplocoelus fagi	Nationally scarce			Y	Y Y	Y
Donacia clavipes	Donacia clavipes	Nationally scarce					Y
Donacia dentata	Donacia dentata	Nationally scarce	Y				
Donacia thalassina	Donacia thalassina	Nationally scarce				Y	Y
Dorytomus ictor	Dorytomus ictor	Nationally scarce					Y
Drupenatus nasturtii	Drupenatus nasturtii	Nationally scarce				Y	Y
Dryops (Dryops) similaris	Dryops (Dryops) similaris	Nationally scarce	Y				
Eledona agricola	Eledona agricola	Nationally scarce					Y
Enochrus bicolor	Enochrus bicolor	Nationally scarce	Y	Y	Y	Y	
Enochrus quadripunctat us	Enochrus quadripunctatus	Nationally scarce	Y	Y	Y	Y	
Eubrychius velutus	Eubrychius velutus	Nationally scarce					Y Y
Euglenes oculatus	Euglenes oculatus	Nationally scarce					Y
Flax flea beetle	Longitarsus parvulus	Nationally scarce	Y	Y	Y	Y	
Gymnetron melanarium	Gymnetron melanarium	Nationally scarce			Y	Y Y	
Hallomenus binotatus	Hallomenus binotatus	Nationally scarce					Y Y

Hawthorn jewel beetle	Agrilus (Anambus) sinuatus	Nationally scarce	Y	Y
Hydaticus seminiger	Hydaticus seminiger	Nationally scarce	Y	Y
Hydaticus transversalis	Hydaticus transversalis	Nationally scarce	Y	Y
Hygrotus (Coelambus) nigrolineatus	Hygrotus (Coelambus) nigrolineatus	Nationally scarce	Y	Y
Ischnomera cyanea	Ischnomera cyanea	Nationally scarce	Y	Y
Ischnodes sanguinicollis	Ischnodes sanguinicollis	Nationally scarce	Y	
Kissophagus hederæ	Kissophagus hederæ	Nationally scarce	Y	
Longitarsus ballotæ	Longitarsus ballotæ	Nationally scarce	Y	
Lissodema denticolle	Lissodema denticolle	Nationally scarce	Y	Y
Longitarsus ballotæ	Longitarsus ballotæ	Nationally scarce	Y	Y
Mallow flea beetle	Podagrica fuscicornis	Nationally scarce	Y	Y
Malthinus balteatus	Malthinus balteatus	Nationally scarce	Y	Y
Medon apicalis	Medon apicalis	Nationally scarce	Y	
Mogulones geographicus	Mogulones geographicus	Nationally scarce	Y	Y
Musk beetle	Aromia moschata	Nationally scarce	Y	Y
Notaris scirpi	Notaris scirpi	Nationally scarce	Y	
Ophonus (Metophonus) schaubergeri anus	Ophonus (Metophonus) schaubergerianus	Nationally scarce	Y	Y
Ophonus (Ophonus) ardosiacus	Ophonus (Ophonus) ardosiacus	Nationally scarce	Y	Y
Ophonus (Ophonus) azureus	Ophonus (Ophonus) azureus	Nationally scarce	Y	
Opilo mollis	Opilo mollis	Nationally scarce	Y	Y
Orchesia micans	Orchesia micans	Nationally scarce	Y	
Oulimnius major	Oulimnius major	Nationally scarce	Y	Y
Philonthus fumarius	Philonthus fumarius	Nationally scarce	Y	
Phytoecia cylindrica	Phytoecia cylindrica	Nationally scarce	Y	Y
Platyderus depressus	Platyderus depressus	Nationally scarce	Y	Y

	Platynaspis luteorubra	Platynaspis luteorubra	Nationally scarce	Y	Y				
	Platystethus (Craetopycrus) nodifrons	Platystethus (Craetopycrus) nodifrons	Nationally scarce			Y			
	Polydrusus (Chrysophis) formosus	Polydrusus (Chrysophis) formosus	Nationally scarce	Y	Y	Y			
	Prionychus ater	Prionychus ater	Nationally scarce						Y
	Pseudocistela ceramboidea	Pseudocistela ceramboidea	Nationally scarce	Y	Y				
	Ptinus sexpunctatus	Ptinus sexpunctatus	Nationally scarce	Y	Y				Y
	Rhagonycha lutea	Rhagonycha lutea	Nationally scarce						Y
	Scaphisoma boleti	Scaphisoma boleti	Nationally scarce						Y Y
	Sepedophilus testaceus	Sepedophilus testaceus	Nationally scarce						Y
	Smaller noterus	Noterus crassicornis	Nationally scarce	Y	Y			Y	Y
	Sphindus dubius	Sphindus dubius	Nationally scarce						Y
	Squamapion cineraceum	Squamapion cineraceum	Nationally scarce	Y	Y				
	Stenus (Stenus) pusillus	Stenus (Stenus) pusillus	Nationally scarce						Y
	Sunius melanocephalus	Sunius melanocephalus	Nationally scarce						Y
	Trichosirocalus barnevillei	Trichosirocalus barnevillei	Nationally scarce	Y	Y			Y	Y
	Two-Spot Wood-Borer	Agrilus (Anambus) biguttatus	Nationally scarce						Y
	Wheat mud beetle	Helophorus (Empleurus) nubilus	Nationally scarce	Y	Y				
Insect - butterfly	Grizzled skipper	Pyrgus malvae	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Small heath	Coenonympha pamphilus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Swallowtail	Papilio machaon	Wildlife and Countryside Act 1981 (Schedule 5)					Y	Y
	Wall	Lasiommata megera	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	White admiral	Limenitis camilla	NERC ACT 2006. Section 41: Species of Principal Importance in England						
	White-letter Hairstreak	Satyrus w-album	Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y

Insect - hymenopteran	Dolichovespula (Dolichovespula) media	Dolichovespula media	Nationally scarce							Y
	Five-banded Weevil-wasp	Cerceris quinquefasciata	NERC ACT 2006. Section 41: Species of Principal Importance in England							Y
	Hill cuckoo bee	Bombus (Psithyrus) rupestris	Nationally scarce						Y Y Y	
	Large garden bumble bee	Bombus (Megabombus) ruderatus	Nationally scarce NERC ACT 2006. Section 41: Species of Principal Importance in England						Y Y Y	
	Lasioglossum (Evylaeus) malachurum	Lasioglossum (Evylaeus) malachurum	Nationally scarce						Y Y	
	Nysson trimaculatus	Nysson trimaculatus	Nationally scarce							Y
Insect - moth	Alder signal	Stathmopoda pedella	Nationally scarce							Y
	August thorn	Ennomos quercinaria	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	
	Beaded chestnut	Agrochola lychnidis	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Blood-vein	Timandra comae	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Bordered gothic	Heliophobus reticulata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	
	Brindled beauty	Lycia hirtaria	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	
	Brown-spot Pinion	Agrochola litura	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Buff ermine	Spilosoma lutea	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Bulrush veneer	Calamotropha paludella	Nationally scarce	Y	Y	Y	Y	Y	Y	Y
	Centre-barred Sallow	Atethmia centrargo	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Cinnabar	Tyria jacobaeae	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Crescent	Celaena leucostigma	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Dark brocade	Mniotype adusta	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y		Y	Y	Y	Y	
	Dark spinach	Pelurga comitata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Dark-barred Twin-spot Carpet	Xanthorhoe ferrugata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Deep-brown Dart	Aporophyla lutulenta	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Dot moth	Melanchra persicariae	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Dotted ermel	Ethmia dodecea	Nationally scarce	Y	Y	Y	Y	Y	Y	Y

409071 | 06NCBA | C | | July 2020

	Oak Hook-tip	Watsonalla binaria	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	
	Pale shining brown	Polia bombycina	NERC ACT 2006. Section 41: Species of Principal Importance in England		Y	Y	Y		
	Powdered quaker	Orthosia gracilis	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Rosy minor	Litoligia literosa	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Rosy rustic	Hydraecia micacea	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Rustic	Hoplodrina blanda	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Sallow	Cirrhia icteritia	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Shaded Broad-bar	Scotopteryx chenopodiata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Shoulder-striped Wainscot	Leucania comma	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Small emerald	Hemistola chrysoprasaria	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Small phoenix	Ecliptopera silaceata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Small Square-spot	Diarsia rubi	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Spinach	Eulithis mellinata	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	Spindle Knot-horn	Nephopterix angustella	Nationally scarce						Y
	Sulphur pearl	Sitochroa palealis	Nationally scarce		Y	Y			Y
	V-moth	Macaria wauaria	NERC ACT 2006. Section 41: Species of Principal Importance in England		Y	Y	Y		
	White ermine	Spilosoma lubricipeda	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	White-line Dart	Euxoa tritici	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
	White-spotted Pinion	Cosmia diffinis	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y
Insect - true bug (Hemiptera)	Agnocoris reclairei	Agnocoris reclairei	Nationally scarce		Y	Y	Y		
	Anoscopus albifrons	Anoscopus albifrons	Nationally scarce		Y	Y	Y	Y	
	Tall fescue planthopper	Ribautodelphax imitans	NERC ACT 2006. Section 41: Species of Principal Importance in England						Y
Insect - true fly (Diptera)	Acanthiophilus helianthi	Acanthiophilus helianthi	Nationally scarce						Y
	Agathomyia wankowiczii	Agathomyia wankowiczii	Nationally scarce						Y
	Atypophthalmus inustus	Atypophthalmus inustus	Nationally scarce						Y

Aulacigaster leucopeza	Aulacigaster leucopeza	Nationally scarce	Y			
Beris clavipes	Beris clavipes	Nationally scarce	Y			
Blaesoxipha plumicornis	Blaesoxipha plumicornis	Nationally scarce	Y			
Brachyopa insensilis	Brachyopa insensilis	Nationally scarce	Y			
Brachyopa pilosa	Brachyopa pilosa	Nationally scarce	Y			
Cheilosia soror	Cheilosia soror	Nationally scarce	Y	Y		
Cheilosia velutina	Cheilosia velutina	Nationally scarce	Y			
Chorisops nagatomii	Chorisops nagatomii	Nationally scarce	Y	Y	Y	
Coenosia atra	Coenosia atra	Nationally scarce	Y	Y		
Colobaea bifasciella	Colobaea bifasciella	Nationally scarce	Y			
Didea fasciata	Didea fasciata	Nationally scarce	Y			
Dioxyna bidentis	Dioxyna bidentis	Nationally scarce	Y			
Drino lota	Drino lota	Nationally scarce	Y			
Epistrophe diaphana	Epistrophe diaphana	Nationally scarce	Y			
Eupachygaster tarsalis	Eupachygaster tarsalis	Nationally scarce	Y			
Fannia clara	Fannia clara	Nationally scarce	Y			
Fannia nigra	Fannia nigra	Nationally scarce	Y			
Gnophomyia viridipennis	Gnophomyia viridipennis	Nationally scarce	Y			
Golden Hoverfly	Callicera spinolae	Nationally scarce	Y			
Helina abdominalis	Helina abdominalis	Nationally scarce	Y			
Helius pallirostris	Helius pallirostris	Nationally scarce	Y	Y		
Hercostomus nigrilamellatus	Hercostomus nigrilamellatus	Nationally scarce	Y			
Hilara lugubris	Hilara lugubris	Nationally scarce	Y			
Hydrotaea pilipes	Hydrotaea pilipes	Nationally scarce	Y			
Lejogaster tarsata	Lejogaster tarsata	Nationally scarce	Y	Y		
Lispocephala falcata	Lispocephala falcata	Nationally scarce	Y			
Lophosia fasciata	Lophosia fasciata	Nationally scarce	Y			

Macronychia striginervis	Macronychia striginervis	Nationally scarce			Y
Mallota cimbiciformis	Mallota cimbiciformis	Nationally scarce			Y
Merzomyia westermanni	Merzomyia westermanni	Nationally scarce	Y	Y	
Mintho rufiventris	Mintho rufiventris	Nationally scarce			Y
Myolepta dubia	Myolepta dubia	Nationally scarce			Y
Neopachygaster meromelas	Neopachygaster meromelas	Nationally scarce			Y
Norellia spinipes	Norellia spinipes	Nationally scarce			Y
Odinia meijerei	Odinia meijerei	Nationally scarce			Y
Odontomyia tigrina	Odontomyia tigrina	Nationally scarce			Y Y
Orellia falcata	Orellia falcata	Nationally scarce			Y
Periscelis annulata	Periscelis annulata	Nationally scarce			Y
Pherbellia annulipes	Pherbellia annulipes	Nationally scarce			Y
Pherbellia dorsata	Pherbellia dorsata	Nationally scarce	Y		Y
Pherbellia nana	Pherbellia nana	Nationally scarce	Y		Y
Phoenix fly	Dorycera graminum	NERC ACT 2006. Section 41: Species of Principal Importance in England			Y
Pipizella virens	Pipizella virens	Nationally scarce	Y	Y	Y Y
Pipunculus zugmayeriae	Pipunculus zugmayeriae	Nationally scarce			Y
Platypalpus articulatoides	Platypalpus articulatoides	Nationally scarce			Y Y
Platypalpus articulatus	Platypalpus articulatus	Nationally scarce			Y
Platypalpus infectus	Platypalpus infectus	Nationally scarce			Y Y
Platypalpus stigma	Platypalpus stigma	Nationally scarce			Y Y
Sapromyza opaca	Sapromyza opaca	Nationally scarce	Y	Y	
Scenopinus niger	Scenopinus niger	Nationally scarce			Y
Stratiomys potamida	Stratiomys potamida	Nationally scarce			Y Y Y
Stratiomys singularior	Stratiomys singularior	Nationally scarce			Y
Systemus leucurus	Systemus leucurus	Nationally scarce			Y

	Tachypeza fuscipennis	Tachypeza fuscipennis	Nationally scarce						Y
	Thecophora fulvipes	Thecophora fulvipes	Nationally scarce						Y
	Trachysiphonella scutellata	Trachysiphonella scutellata	Nationally scarce			Y	Y		
	Triglyphus primus	Triglyphus primus	Nationally scarce						Y
	Typhamyza bifasciata	Typhamyza bifasciata	Nationally scarce			Y			Y
	Vanoyia tenuicornis	Vanoyia tenuicornis	Nationally scarce			Y	Y	Y	
	Volucella inanis	Volucella inanis	Nationally scarce		Y			Y	Y
	Volucella inflata	Volucella inflata	Nationally scarce						Y
	Volucella zonaria	Volucella zonaria	Nationally scarce		Y	Y	Y	Y	Y
	Xanthandrus comtus	Xanthandrus comtus	Nationally scarce						Y
	Zophomyia temula	Zophomyia temula	Nationally scarce						Y
Lichen	Aspicilia contorta subsp. Hoffmanniana	Aspicilia contorta subsp. Hoffmanniana	Nationally rare		Y	Y	Y		Y
	Bacidia egenula	Bacidia egenula	Nationally scarce						Y
	Buellia badia	Buellia badia	Nationally scarce		Y	Y	Y		
	Caloplaca crenulatella	Caloplaca crenulatella	Nationally scarce		Y	Y	Y		
	Catillaria atomarioides	Catillaria atomarioides	Nationally scarce		Y	Y			
	Chaenotheca brachypoda	Chaenotheca brachypoda	Nationally scarce						Y
	Lecania cyrtella	Lecania cyrtella	Nationally rare		Y	Y	Y	Y	Y
	Lecania hutchinsiae	Lecania hutchinsiae	Nationally scarce						Y
	Lecania inundata	Lecania inundata	Nationally scarce		Y	Y	Y	Y	
	Lecania rabenhorstii	Lecania rabenhorstii	Nationally scarce		Y	Y	Y		
	Lecanora persimilis	Lecanora persimilis	Nationally scarce		Y	Y	Y		
	Lecanora semipallida	Lecanora semipallida	Nationally scarce			Y			Y
	Placynthiella dasaea	Placynthiella dasaea	Nationally scarce		Y	Y			Y
	Punctelia jeckeri	Punctelia jeckeri	Nationally scarce		Y	Y	Y	Y	Y

	Xanthoria ucrainica	Xanthoria ucrainica	Nationally scarce	Y	Y	Y	Y	Y	Y	Y
Liverwort	Micheli's Balloonwort	Sphaerocarpos michelii	Nationally scarce							Y
Reptile	Common lizard	Zootoca vivipara	Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Grass snake	Natrix natrix	Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Slow-worm	Anguis fragilis	Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England					Y	Y	Y
Stonewort	Clustered stonewort	Tolypella glomerata	Nationally scarce	Y				Y	Y	Y
	Tassel stonewort	Tolypella intricata	NERC ACT 2006. Section 41: Species of Principal Importance in England					Y	Y	
Terrestrial mammal	Brown Long- eared Bat	Plecotus auritus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Common pipistrelle	Pipistrellus pipistrellus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y	Y	Y	Y
	Daubenton's bat	Myotis daubentonii	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y	Y	Y	Y
	European otter	Lutra lutra	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Long-eared Bat species	Plecotus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y	Y	Y	Y
	Natterer's bat	Myotis nattereri	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y			Y
	Noctule bat	Nyctalus noctula	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Nyctalus Bat species	Nyctalus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England							Y
	Parti- coloured Bat	Vespertilio murinus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)					Y	Y	
	Pipistrelle Bat species	Pipistrellus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y	Y	Y	Y
	Serotine	Eptesicus serotinus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y	Y	Y	Y
	Soprano pipistrelle	Pipistrellus pygmaeus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y	Y	Y	Y	Y	Y
	Unidentified bat	Myotis	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5)	Y	Y	Y	Y	Y	Y	Y

Western barbastelle	Barbastella barbastellus	Habitats and Species Directive (Annex II) Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y
Polecat	Mustela putorius	Habitats and Species Directive (Annex V) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	Y
Eurasian badger	Meles meles	Protection of Badgers Act 1992	Y Y Y Y Y Y Y	
Bats	Chiroptera	Wildlife and Countryside Act 1981 (Schedule 5)	Y Y Y Y Y Y	
European water vole	Arvicola amphibius	Wildlife and Countryside Act 1981 (Schedule 5) NERC ACT 2006. Section 41: Species of Principal Importance in England	Y Y Y Y Y Y Y	
Brown hare	Lepus europaeus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y Y Y Y Y Y Y	
Harvest mouse	Micromys minutus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y	
West European hedgehog	Erinaceus europaeus	NERC ACT 2006. Section 41: Species of Principal Importance in England	Y Y Y Y Y Y Y	

Table A.2: Protected and notable species within the Indicative WWTP boundaries

Site area	Reported species	Designation	Location	Year reported
A	None			
B	Lapwing (<i>Vanellus vanellus</i>)	NERC ACT 2006. Section 41: Species of Principal Importance in England	South west of Rampton (TL415677)	2003
	Hen harrier (<i>Circus cyaneus</i>)	Wildlife and Countryside Act 1981 (Schedule 1)	West of Rampton (TL410680)	2007
C	None			
H	None			
I	Stone-curlew (<i>Burhinus oedicephalus</i>)	Wildlife and Countryside Act 1981 (Schedule 1) NERC ACT 2006. Section 41: Species of Principal Importance in England	Landbeach (TL4764)	2012
	Spotted flycatcher (<i>Muscicapa striata</i>)	NERC ACT 2006. Section 41: Species of Principal Importance in England	Landbeach (TL4764)	2007
J	Mediterranean gull (<i>Larus melanocephalus</i>)	Wildlife and Countryside Act 1981 (Schedule 1)	Milton landfill site (TL4663)	2019
	Bullfinch (<i>Pyrrhula pyrrhula</i>)	NERC ACT 2006. Section 41: Species of Principal Importance in England	Mere Way, Milton (TL4663)	2019
	Lesser redpoll (<i>Acanthis cabaret</i>)	NERC ACT 2006. Section 41: Species of Principal Importance in England	Milton (TL4663)	2019
	Turtle dove (<i>Streptopelia turtur</i>)	NERC ACT 2006. Section 41: Species of Principal Importance in England	Milton (TL4663)	2019
	Yellow wagtail	NERC ACT 2006. Section 41: Species of Principal Importance in England	Milton (TL4663)	2019
	Grey partridge	NERC ACT 2006. Section 41: Species of Principal Importance in England	Milton (TL4663)	2019
	Curlew	NERC ACT 2006. Section 41: Species of Principal Importance in England	Milton (TL4663)	2019

Site area	Reported species	Designation	Location	Year reported
L	Barn owl (<i>Tyto alba</i>)	Wildlife and Countryside Act 1981 (Schedule 1)	Low Fen Drove Way Grasslands and Hedges CWS	2011

Table A.3: Historical EPS licence applications within 5km of the proposed site areas

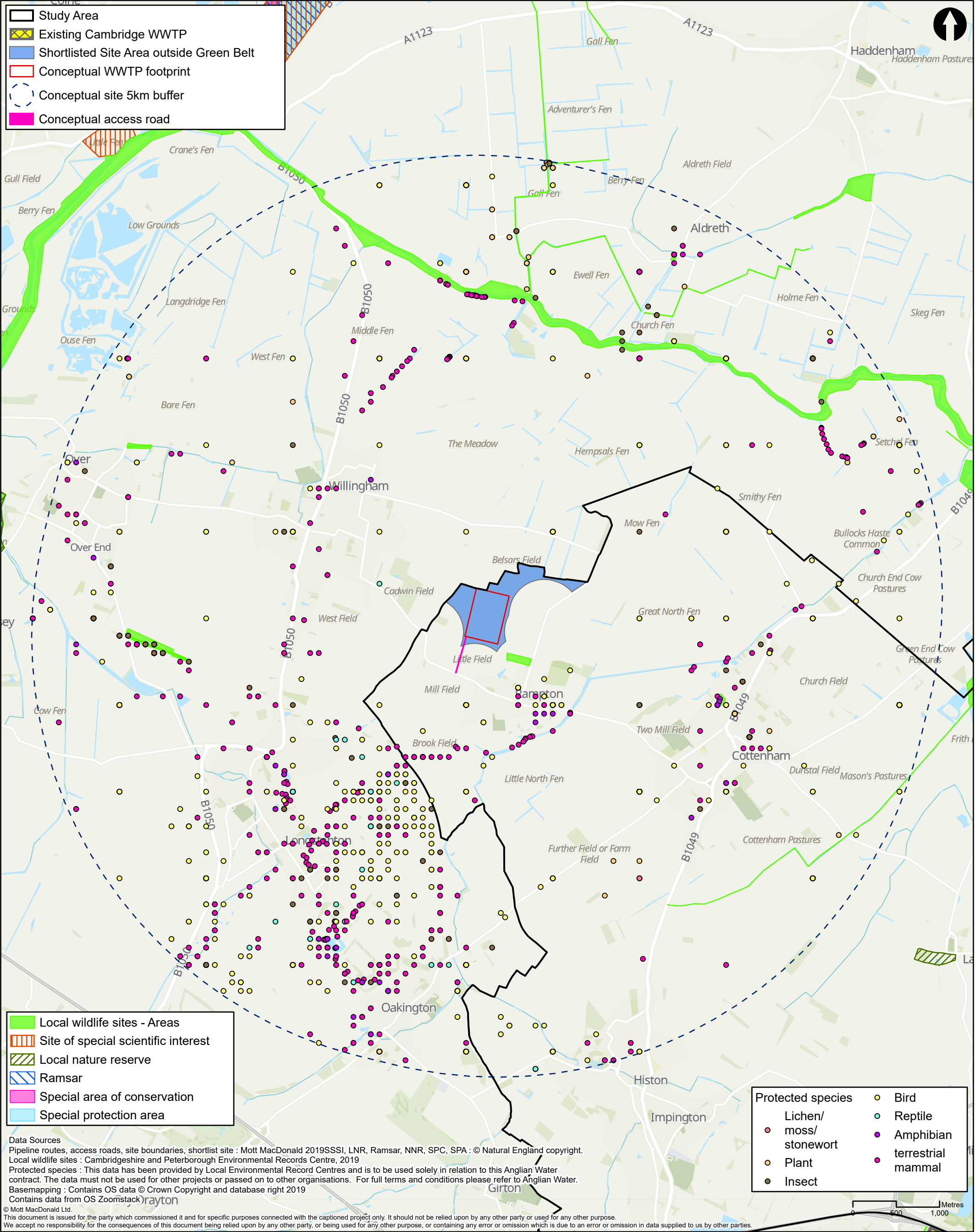
Site area	Case reference	Species	Location	Approximate distance (km)	Details	Start date	End date
A	EPSM2013-6619	Bat	TL407704	1.5	Allowed destruction of a resting place	13/11/2013	01/10/2016
	2016-24336-EPS-MIT	Bat	TL396674	2.6	Allowed destruction of a resting place	06/12/2016	06/12/2016
		Common pip (C-PIP)				01/07/2016	01/07/2021
	2017-29294-EPS-MIT-2	Great crested newt	TL401666	2.7	Allowed damage and destruction of a resting place	29/09/2017	30/09/2018
	EPSM2011-3249	Bat C-PIP, Soprano pip (S-PIP)	TL405662	2.7	Allowed destruction of a resting place	25/08/2011	30/11/2012
B	EPSM2013-6399	Bat C-PIP, BLE	TL474718	4.8	Allowed destruction of a resting place	03/10/2013	30/06/2015
	EPSM2013-6619	Bat	TL407704	1.8	Allowed destruction of a resting place	13/11/2013	01/10/2016
	2016-24336-EPS-MIT	Bat C-PIP	TL396674	1.3	Allowed destruction of a resting place	06/12/2016	06/12/2016
						01/07/2016	01/07/2021
	2017-29294-EPS-MIT-2	Great crested newt	TL401666	1.2	Allowed damage and destruction of a resting place	29/09/2017	30/09/2018
C	EPSM2011-3249	Bat C-PIP, S-PIP	TL405662	1.2	Allowed destruction of a resting place	25/08/2011	30/11/2012
	2015-8487-EPS-MIT	Great crested newt	TL358684	5.0	Allowed damage and destruction of a resting place	12/06/2015	31/05/2016
	EPSM2013-6619	Bat	TL407704	4.1	Allowed destruction of a resting place	13/11/2013	01/10/2016

Site area	Case reference	Species	Location	Approximate distance (km)	Details	Start date	End date
H	2016-24336-EPS-MIT	Bat C-PIP	TL396674	3.3	Allowed destruction of a resting place	06/12/2016 01/07/2016	06/12/2016 01/07/2021
	2017-29294-EPS-MIT-2	Great crested newt	TL401666	2.6	Allowed damage and destruction of a resting place	29/09/2017	30/09/2018
	EPSM2011-3249	Bat C-PIP, S-PIP	TL405662	2.2	Allowed destruction of a resting place	25/08/2011	30/11/2012
	2017-29294-EPS-MIT-2	Great crested newt	TL401666	4.4	Allowed damage and destruction of a resting place	29/09/2017	30/09/2018
	EPSM2011-3249	Bat C-PIP, S-PIP	TL405662	3.9	Allowed destruction of a resting place	25/08/2011	30/11/2012
	2014-926-EPS-MIT	Great crested newt	TL426600	4.7	Allowed damage and destruction of a resting place	18/09/2014	31/08/2031
	EPSM2010-2444	Bat C-PIP, Whiskered bat (WHISK), Brandt's bat (BRAN)	TL431604	4.1	Allowed destruction of a resting place	26/10/2010	25/10/2012
	EPSM2010-2402	Bat C-PIP, S-PIP	TL483615	3.7	Allowed destruction of a resting place	18/10/2010	30/09/2011
I	2014-775-EPS-MIT	Bat Brown long-eared (BLE), C-PIP, Noctule, S-PIP	TL480629	2.9	Allowed destruction of a resting place	01/01/2001	01/01/2001
	EPSM2010-2444	Bat C-PIP, WHISK, BRAN	TL431604	4.1	Allowed destruction of a resting place	26/10/2010	25/10/2012
	EPSM2011-3699	Bat S-PIP	TL445588	5.0	Allowed impact and destruction of breeding site Allowed destruction of a breeding site	01/02/2012	30/09/2013
	EPSM2010-2402	Bat C-PIP, S-PIP	TL483615	3.7	Allowed destruction of a resting place	18/10/2010	30/09/2011
	2014-775-EPS-MIT	Bat	TL480629	2.9	Allowed destruction of a resting place	01/01/2001	01/01/2001

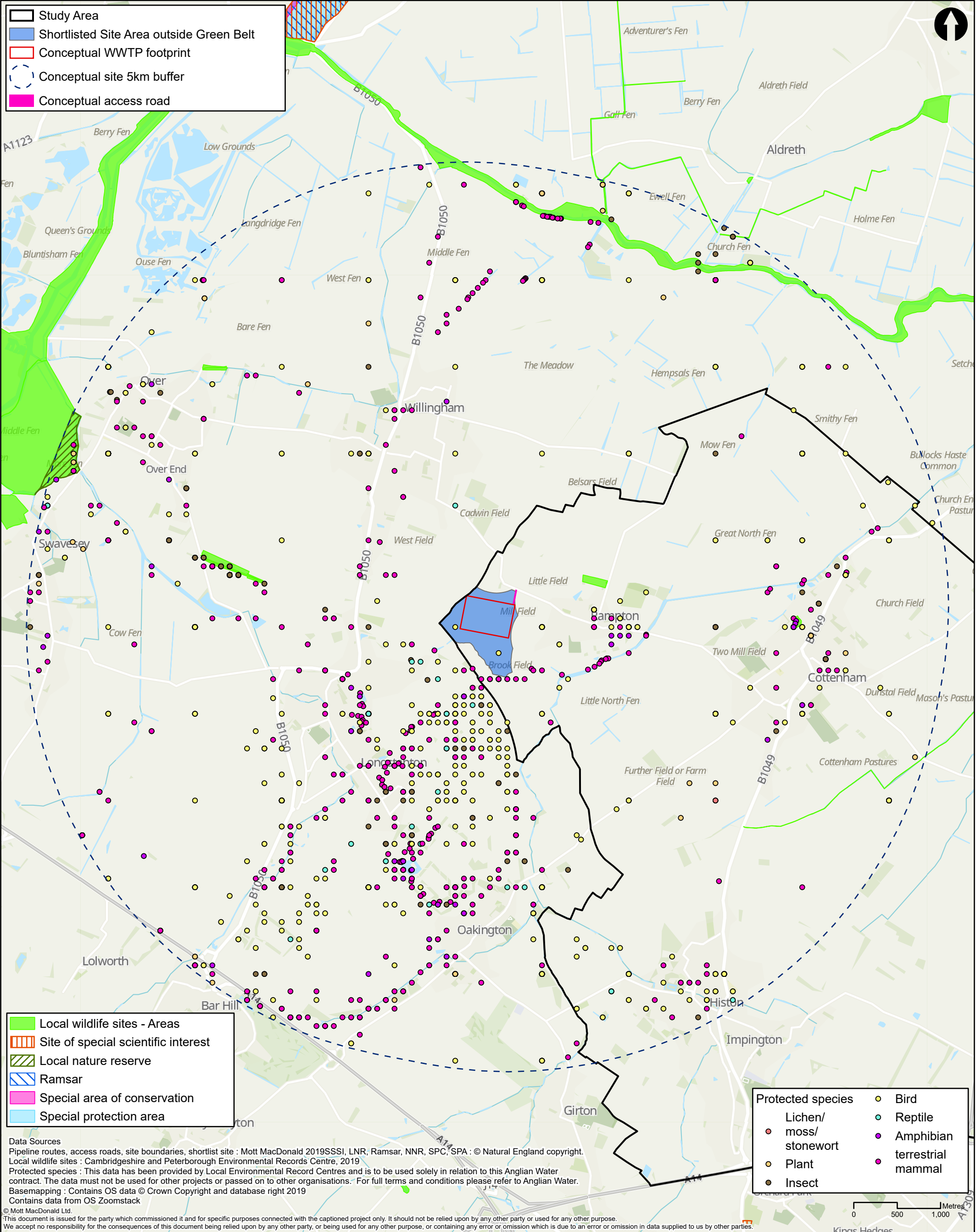
Site area	Case reference	Species	Location	Approximate distance (km)	Details	Start date	End date
J		BLE, C-PIP, Noctule, S-PIP					
	EPSM2010-2444	Bat C-PIP, WHISK, BRAN	TL431604	2.8	Allowed destruction of a resting place	26/10/2010	25/10/2012
	EPSM2011-3699	Bat S-PIP	TL445588	3.5	Allowed impact and destruction of breeding site Allowed destruction of a breeding site	01/02/2012	30/09/2013
	EPSM2010-2402	Bat C-PIP, S-PIP	TL483615	2.0	Allowed destruction of a resting place	18/10/2010	30/09/2011
	2014-775-EPS-MIT	Bat BLE, C-PIP, Noctule, S-PIP	TL482629	1.8	Allowed destruction of a resting place	01/01/2001	01/01/2001
	2016-24626-EPS-MIT	Bat BLE, C-PIP, S-PIP	TL440576	4.7	Allowed destruction and damage of a resting place and breeding site	01/09/2016	31/08/2021
	2014-926-EPS-MIT	Great crested Newt	TL425600	3.5	Allowed destruction and damage of a resting place	18/09/2014	31/08/2031
L	EPSM2012-3992	Bat C-PIP	TL472576	4.6	Allowed destruction of a resting place	12/03/2012	30/09/2014
	2014-775-EPS-MIT	Bat BLE, C-PIP, S-PIP	TL482629	1.6	Allowed destruction of a resting place	01/01/2001	01/01/2001
	EPSM2012-4691	Bat BLE, C-PIP, Noctule, S-PIP,	TL482629	1.6	Allowed destruction of a resting place	16/05/2013	31/03/2015
	EPSM2010-2402	Bat C-PIP, S-PIP	TL482614	0.8	Allowed destruction of a resting place	18/10/2010	30/09/2011
	2017-28568-EPS-MIT	Bat BLE, C-PIP, Natterer's bat (NATT)	TL531630	3.3	Allowed destruction and damage of a resting place	25/04/2017	30/04/2027
	EPSM2012-3992	Bat	TL473576	3.8	Allowed destruction of a resting place	12/03/2012	30/09/2014

Site area	Case reference	Species	Location	Approximate distance (km)	Details	Start date	End date
		C-PIP					
	2017-31279-EPS-MIT	Bat C-PIP	TL481564	4.3	Allowed destruction of a resting place	19/10/2017	31/10/2018
	EPSM2011-3699	Bat S-PIP	TL445587	5.0	Allowed impact and destruction of breeding site	01/02/2012	30/09/2013

B. Drawings

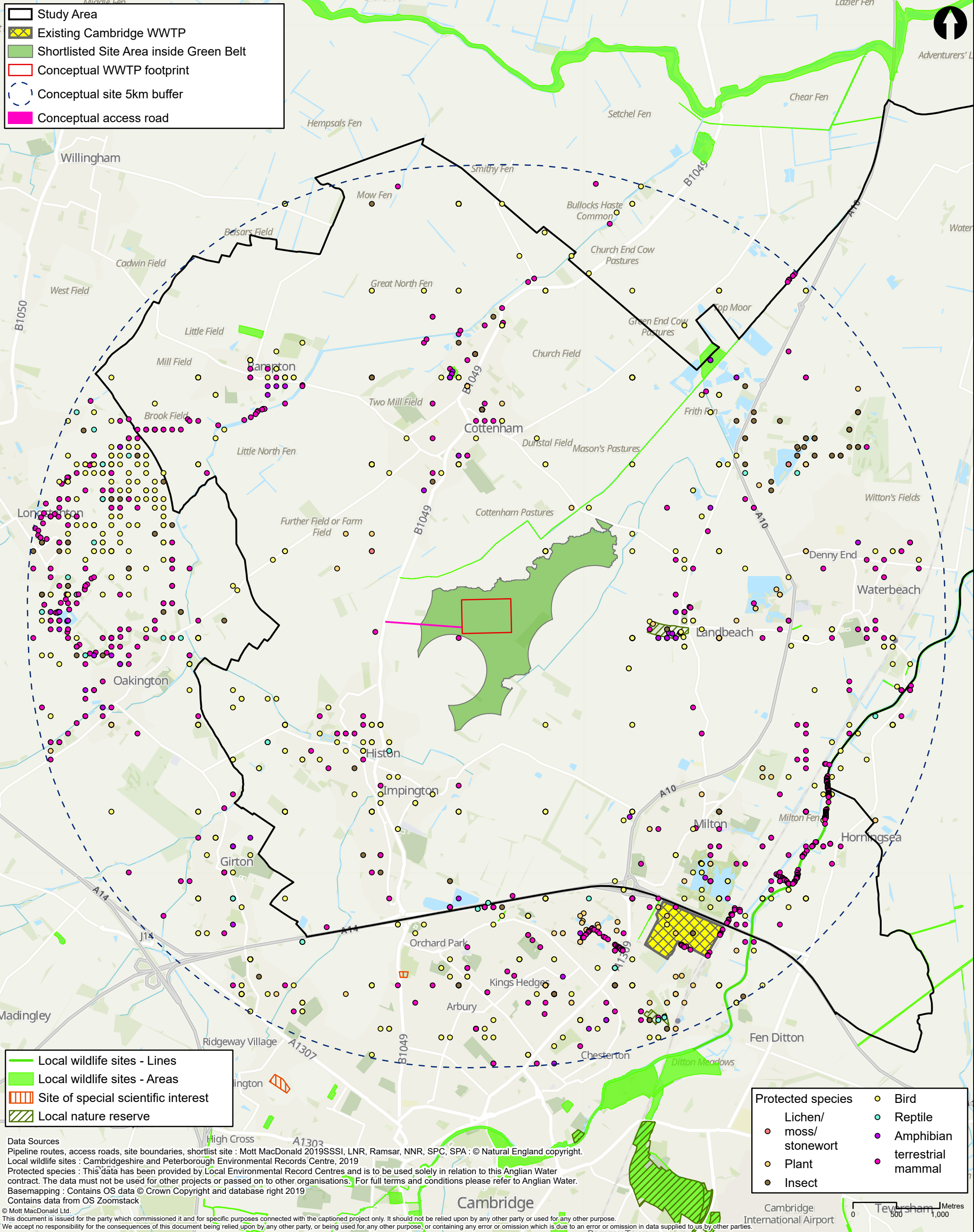


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										Checked	M Rickard	
										Approved	J Newton	
										Scale at A3 1:40,000		
	Rev	Date	Drawn	Description	Ch'k'd	App'd	Drawing Number 409071-MMD-00-XX-GIS-Y-0139			Security	Status	Rev
C	11/06/20	NC	Final	MR	JN	STD				PRE	C	



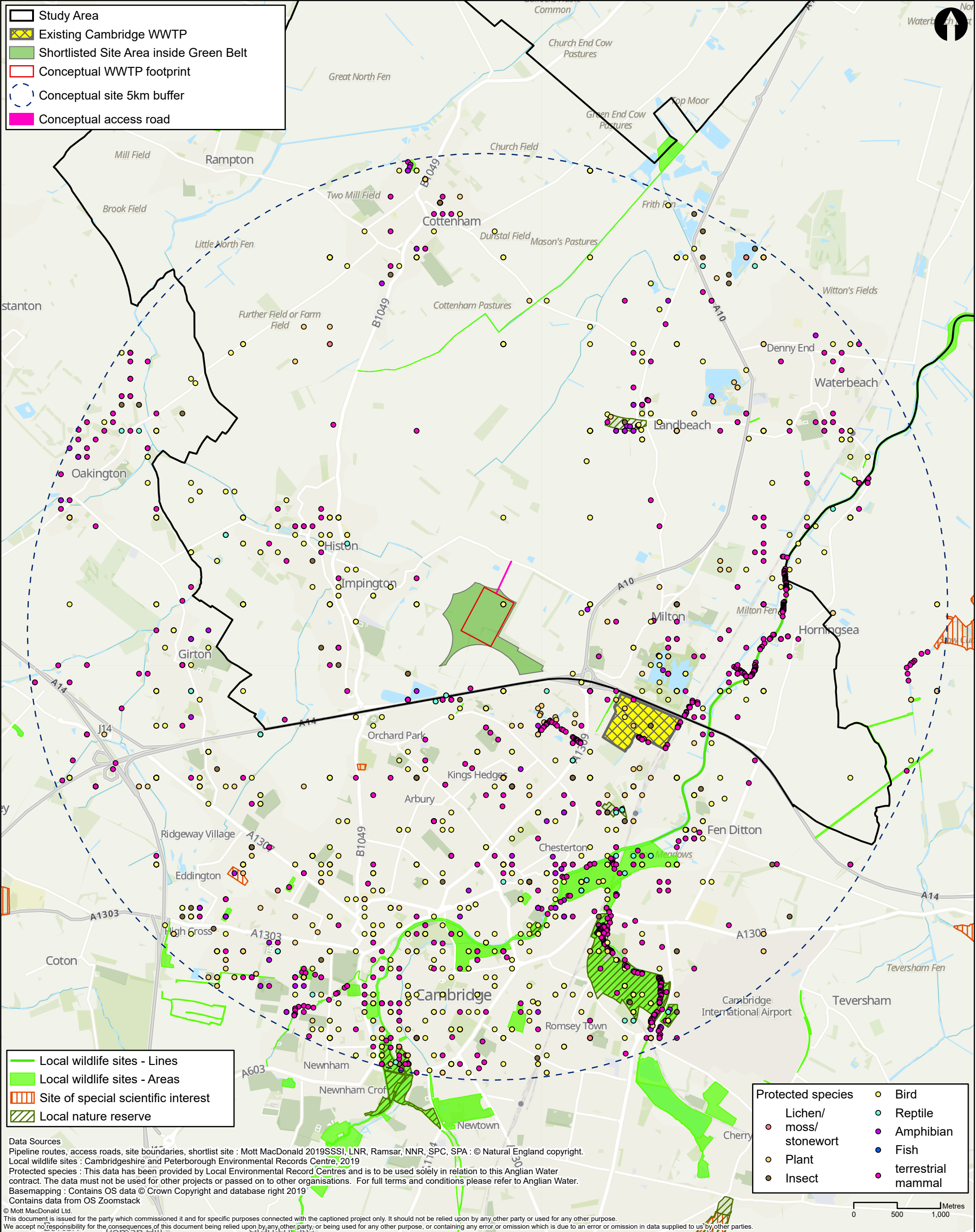
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									Checked	M Rickard	
	Approved	J Newton									
	Scale at A3 1:40,000										
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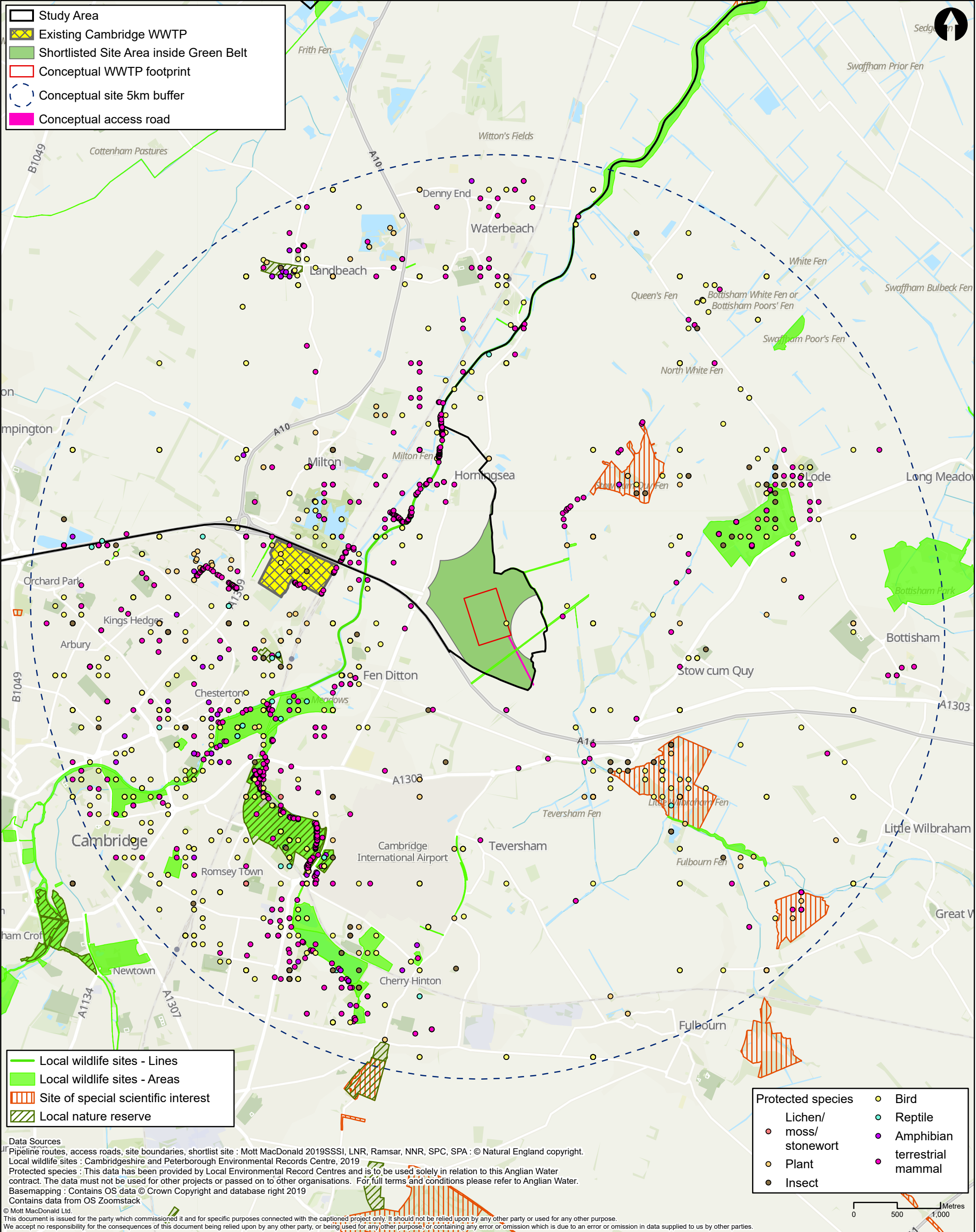
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	<table><tr><td>Rev</td><td>Date</td><td>Drawn</td><td>Description</td><td>Ch'k'd</td><td>App'd</td></tr><tr><td>C</td><td>11/06/20</td><td>NC</td><td>Final</td><td>MR</td><td>JN</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Rev	Date	Drawn	Description	Ch'k'd	App'd	C	11/06/20	NC	Final	MR	JN							Checked		M Rickard	
										Rev	Date	Drawn	Description	Ch'k'd	App'd																
										C	11/06/20	NC	Final	MR	JN																
Approved		J Newton																													
						Scale at A3 1:40,000																									
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	Rev Date Drawn Description Ch'k'd App'd									Checked	M Rickard	
										Approved	J Newton	
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								Checked	M Rickard	
								Approved	J Newton	
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