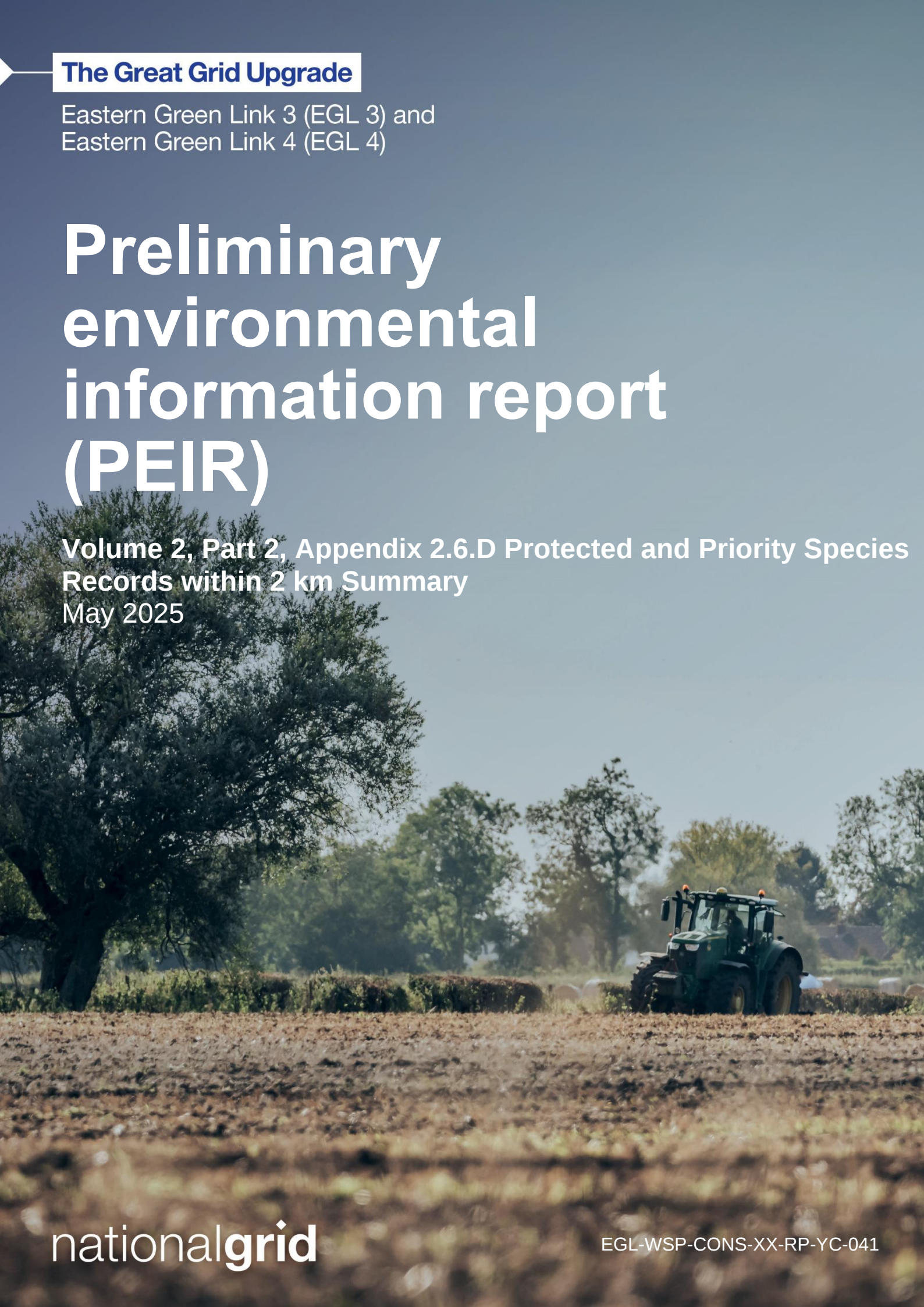


The background of the entire page is a photograph of a green tractor working in a field. The tractor is positioned on the right side of the frame, moving towards the left. The field is brown and appears to be recently plowed or harvested. In the background, there are several green trees and a clear blue sky. The overall scene is rural and agricultural.

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

Preliminary environmental information report (PEIR)

Volume 2, Part 2, Appendix 2.6.D Protected and Priority Species
Records within 2 km Summary
May 2025

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2.6.D Protected and Priority species records within 2 km summary

Table 2.6.D-1- Protected and priority species records summary within 2 km

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Bats (roosts)						
Brown Long-eared bat	<i>Plecotus auritus</i>	67	2020	Roost	Within	Wildlife and Countryside Act (W&CA); European Protected Species (EPS); Species of Principal Importance (SPI)
Common pipistrelle	<i>Pipistrellus pipistrellus</i>	24	2018	Roost	Within	W&CA; EPS
Daubenton's bat	<i>Myotis daubentonii</i>	6	2016	Roost	Within	W&CA; EPS
Myotis bat species	<i>Myotis</i> spp.	1	2007	Roost	0.84 km east	W&CA; EPS
Natterer's bat	<i>Myotis nattereri</i>	5	2020	Roost	0.56 km west	W&CA; EPS
Pipistrellus species	<i>Pipistrellus</i> spp.	89	2021	Roost	Within	W&CA; EPS

¹ W&CA = Wildlife & Countryside Act 1981 as amended / EPS = European Protected Species / SPI = Species of Principal Importance / Sch 1 = Schedule 1 of the W&CA / Badgers Act = Protection of Badgers Act (1992)

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>	6	2020	Roost	Within	W&CA; EPS; SPI
Unidentified bat species	<i>Chiroptera</i> spp.	55	2022	Roost	Within	W&CA; EPS
Annex II bat species (under the Habitats Directive)						
Western barbastelle	<i>Barbastella barbastella</i>	1	2015	Field observation	0.17 km north	W&CA; EPS; SPI
Terrestrial mammal (SPI only)						
Badger	<i>Meles meles</i>	482 (setts only)	2023	Sett	Within	W&CA; EPS; Badgers Act
Brown hare	<i>Lepus europaeus</i>	580	2023	Field observation	Within	W&CA; SPI
Otter	<i>Lutra lutra</i>	130	2023	Field observation	Within	W&CA; EPS; SPI
Water vole	<i>Arvicola amphibius</i>	3,999	2014	Field observation	0.92 km south	W&CA; EPS; SPI
Hedgehog	<i>Erinaceus europaeus</i>	338	2022	Field observation	Within	W&CA; SPI
Harvest mouse	<i>Micromys minutus</i>	4	2019	Field sign	1.38 km west	W&CA; SPI
Amphibians						
Great Crested Newt (GCN)	<i>Triturus cristatus</i>	98	2023	Field observation	Within	W&CA; EPS; SPI
Common frog	<i>Rana temporaria</i>	81	2022	Field observation	Within	W&CA
Common toad	<i>Bufo bufo</i>	58	2023	Field observation	Within	W&CA; SPI

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Smooth newt	<i>Lissotriton vulgaris</i>	43	2020	Field observation	Within	W&CA
Reptiles						
Common lizard	<i>Zootoca vivipara</i>	9	2018	Field observation	Within	W&CA; SPI
Grass snake	<i>Natrix helveticus</i>	40	2023	Field observation	Within	W&CA; SPI
Schedule 1 Birds						
Avocet	<i>Recurvirostra avosetta</i>	416	2022	Field observation	Within	W&CA; Schedule 1 (Sch 1)
Barn owl	<i>Tyto alba</i>	733	2024	Field observation	Within	W&CA; Sch 1
Bearded tit	<i>Panurus biarmicus</i>	329	2022	Field observation	Within	W&CA; Sch 1
Bee-eater	<i>Merops apiaster</i>	2	2017	Field observation	Within	W&CA; Sch 1
Bewick's swan	<i>Cygnus columbianus bewickii</i>	10	2022	Field observation	Within	W&CA; Sch 1
Bittern	<i>Botaurus stellaris</i>	95	2022	Field observation	Within	W&CA; Sch 1
Black-necked grebe	<i>Podiceps nigricollis</i>	5	2021	Field observation	Within	W&CA; Sch 1
Black-tailed godwit	<i>Limosa limosa</i>	773	2022	Field observation	Within	W&CA; Sch 1
Black redstart	<i>Phoenicurus ochruros</i>	31	2022	Field observation	Within	W&CA; Sch 1
Black tern	<i>Chlidonias niger</i>	55	2022	Field observation	Within	W&CA; Sch 1
Black-throated diver	<i>Gavia arctica</i>	115	2022	Field observation	Within	W&CA; Sch 1

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Black-winged stilt	<i>Himantopus himantopus</i>	2	2017	Field observation	Within	W&CA; Sch 1
Bluethroat	<i>Luscinia svecica</i>	1	2009	Field observation	Within	W&CA; Sch 1
Brambling	<i>Fringilla montifringilla</i>	216	2022	Field observation	Within	W&CA; Sch 1
Cetti's warbler	<i>Cettia cetti</i>	1,771	2023	Field observation	Within	W&CA; Sch 1
Common rosefinch	<i>Carpodacus erythrurus</i>	5	2022	Field observation	Within	W&CA; Sch 1
Common scoter	<i>Melanitta nigra</i>	1,206	2022	Field observation	Within	W&CA; Sch 1
Corncrake	<i>Crex crex</i>	4	2017	Field observation	Within	W&CA; Sch 1
Crossbill	<i>Loxia curvirostra</i>	26	2022	Field observation	Within	W&CA; Sch 1
Dotterel	<i>Charadrius morinellus</i>	2	2015	Field observation	Within	W&CA; Sch 1
Fieldfare	<i>Turdus pilaris</i>	642	2022	Field observation	Within	W&CA; Sch 1
Firecrest	<i>Regulus ignicapilla</i>	26	2022	Field observation	Within	W&CA; Sch 1
Garganey	<i>Spatula querquedula</i>	101	2022	Field observation	Within	W&CA; Sch 1
Goldeneye	<i>Bucephala clangula</i>	198	2022	Field observation	Within	W&CA; Sch 1
Golden oriole	<i>Oriolus oriolus</i>	3	2019	Field observation	Within	W&CA; Sch 1
Goshawk	<i>Accipiter gentilis</i>	4	2018	Field observation	Within	W&CA; Sch 1
Great northern diver	<i>Gavia immer</i>	123	2022	Field observation	Within	W&CA; Sch 1
Green sandpiper	<i>Tringa ochropus</i>	272	2022	Field observation	Within	W&CA; Sch 1
Greenshank	<i>Tringa nebularia</i>	359	2022	Field observation	Within	W&CA; Sch 1

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Hen harrier	<i>Circus cyaneus</i>	77	2022	Field observation	Within	W&CA; Sch 1
Hobby	<i>Falco subbuteo</i>	287	2022	Field observation	Within	W&CA; Sch 1
Honey buzzard	<i>Pernis apivorus</i>	13	2016	Field observation	Within	W&CA; Sch 1
Hoopoe	<i>Upupa epops</i>	6	2019	Field observation	Within	W&CA; Sch 1
Kingfisher	<i>Alcedo atthis</i>	335	2022	Field observation	Within	W&CA; Sch 1
Lapland bunting	<i>Calcarius lapponicus</i>	33	2022	Field observation	Within	W&CA; Sch 1
Leach's storm-petrel	<i>Hydrobates leucorhous</i>	23	2020	Field observation	Within	W&CA; Sch 1
Little bittern	<i>Ixobrychus minutus</i>	4	2020	Field observation	Within	W&CA; Sch 1
Little gull	<i>Hydrocoloeus minutus</i>	149	2022	Field observation	Within	W&CA; Sch 1
Little ringed plover	<i>Charadrius dubius</i>	247	2022	Field observation	Within	W&CA; Sch 1
Little tern	<i>Sternula albifrons</i>	122	2022	Field observation	Within	W&CA; Sch 1
Long-tailed duck	<i>Clangula hyemalis</i>	62	2022	Field observation	Within	W&CA; Sch 1
Marsh harrier	<i>Circus aeruginosus</i>	1,795	2022	Field observation & breeding bird survey	Within	W&CA; Sch 1
Marsh warbler	<i>Acrocephalus palustris</i>	32	2022	Field observation	Within	W&CA; Sch 1
Mediterranean gull	<i>Ichthyaeetus melanocephalus</i>	289	2022	Field observation	Within	W&CA; Sch 1
Merlin	<i>Falco columbarius</i>	139	2022	Field observation	Within	W&CA; Sch 1

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Montagu's harrier	<i>Circus pygargus</i>	22	2013	Field observation	Within	W&CA; Sch 1
Osprey	<i>Pandion haliaetus</i>	30	2022	Field observation	Within	W&CA; Sch 1
Peregrine falcon	<i>Falco peregrinus</i>	349	2022	Field observation	Within	W&CA; Sch 1
Pintail	<i>Anas acuta</i>	322	2022	Field observation	Within	W&CA; Sch 1
Purple heron	<i>Ardea purpurea</i>	6	2022	Field observation	0.25 km north	W&CA; Sch 1
Purple sandpiper	<i>Calidris maritima</i>	30	2022	Field observation	Within	W&CA; Sch 1
Quail	<i>Coturnix coturnix</i>	31	2022	Field observation	Within	W&CA; Sch 1
Red-backed shrike	<i>Lanius collurio</i>	5	2019	Field observation	Within	W&CA; Sch 1
Red kite	<i>Milvus milvus</i>	191	2022	Field observation	Within	W&CA; Sch 1
Red-necked phalarope	<i>Phalaropus lobatus</i>	6	2022	Field observation	0.16 km north	W&CA; Sch 1
Red-throated diver	<i>Gavia stellata</i>	868	2022	Field observation	Within	W&CA; Sch 1
Redwing	<i>Turdus iliacus</i>	677	2022	Field observation	Within	W&CA; Sch 1
Roseate tern	<i>Sterna dougallii</i>	7	2022	Field observation	Within	W&CA; Sch 1
Ruff	<i>Calidris pugnax</i>	225	2022	Field observation	Within	W&CA; Sch 1
Savi's warbler	<i>Locustella luscinioides</i>	3	2022	Field observation	0.22 km north	W&CA; Sch 1
Scaup	<i>Aythya marila</i>	44	2022	Field observation	Within	W&CA; Sch 1
Serin	<i>Serinus serinus</i>	3	2022	Field observation	Within	W&CA; Sch 1
Shore lark	<i>Eremophila alpestris</i>	2	2019	Field observation	1.15 km north	W&CA; Sch 1
Slavonian grebe	<i>Podiceps auritus</i>	14	2021	Field observation	Within	W&CA; Sch 1

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Snow bunting	<i>Plectrophenax nivalis</i>	106	2022	Field observation	Within	W&CA; Sch 1
Spoonbill	<i>Platalea leucorodia</i>	78	2022	Field observation	Within	W&CA; Sch 1
Velvet scoter	<i>Melanitta fusca</i>	107	2022	Field observation	Within	W&CA; Sch 1
Whimbrel	<i>Numenius phaeopus</i>	548	2022	Field observation	Within	W&CA; Sch 1
White-tailed eagle	<i>Haliaeetus albicilla</i>	3	2022	Field observation	Within	W&CA; Sch 1
Whooper swan	<i>Cygnus cygnus</i>	1,031	2022	Field observation	Within	W&CA; Sch 1
Woodlark	<i>Lullula arborea</i>	10	2022	Field observation	Within	W&CA; Sch 1
Invertebrates (SPI only)						
Beaded chestnut	<i>Agrochola lychnidis</i>	16	2022	Field observation & trapping	0.09 km south	SPI
Black oil-beetle	<i>Meloe proscarabaeus</i>	2	2023	Field observation	Within	SPI
Blood vein	<i>Timandra comae</i>	57	2022	Field observation & trapping	Within	SPI
Brindled beauty	<i>Lycia hirtaria</i>	2	2022	-	0.09 km south	SPI
Brown-spot pinion	<i>Anchoscelis litura</i>	1	2022	-	0.09 km south	SPI
Buff ermine	<i>Spilosoma lutea</i>	108	2022	Field observation & trapping	Within	SPI
Centre-barred sallow	<i>Atethmia centrargo</i>	12	2022	Field observation & trapping	0.09 km S	SPI
Cinnabar	<i>Tyria jacobaeae</i>	98	2023	Field observation & trapping	Within	SPI

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Crescent	<i>Helotropha leucostigma</i>	1	2018	-	0.99 km south	SPI
Dark brocade	<i>Mniotype adusta</i>	4	2020	Field observation	0.09 km south	SPI
Dark spinach	<i>Pelurga comitata</i>	2	2018	Field observation	0.09 km south	SPI
Dark-barred twin-spot carpet	<i>Xanthorhoe ferrugata</i>	25	2022	Field observation & trapping	0.09 km south	SPI
Dingy skipper	<i>Erynnis tages</i>	1	2006	Field observation	Within	SPI
Dot moth	<i>Melanchra persicariae</i>	34	2022	Field observation & trapping	0.09 km south	SPI
Dusky brocade	<i>Apamea remissa</i>	7	2022	Field observation & trapping	Within	SPI
Dusky thorn	<i>Ennomos fuscantaria</i>	5	2022	Field observation & trapping	0.09 km south	SPI
Dusky-lemon sallow	<i>Cirrhia gilvago</i>	3	2017	Trapping	0.09 km south	SPI
Ear moth	<i>Amphipoea oculea</i>	4	2020	Field observation	0.09 km south	SPI
Feathered gothic	<i>Tholera decimalis</i>	1	2020	-	0.09 km south	SPI
Four-spotted	<i>Tyta luctuosa</i>	2	2022	Trapping	0.78 km south	SPI
Ghost moth	<i>Hepialus humuli</i>	11	2021	Field observation & trapping	Within	SPI
Goat moth	<i>Cossus cossus</i>	1	2007	Trapping	1.47 km west	SPI
Green-brindled crescent	<i>Allophyes oxyacanthae</i>	5	2022	Trapping	0.09 km	SPI

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Grey dagger	<i>Acronicta psi</i>	4	2013	Field observation & trapping	0.21 km west	SPI
Knot grass	<i>Acronicta rumicis</i>	16	2022	Field observation & trapping	0.09 km south	SPI
Lackey	<i>Malacosoma neustria</i>	8	2021	Field observation & trapping	0.21 km west	SPI
Large garden bumblebee	<i>Bombus ruderatus</i>	7	2021	Field observation	Within	SPI
Large nutmeg	<i>Apamea anceps</i>	8	2022	Trapping	0.09 km south	SPI
Large wainscot	<i>Rhizedra lutosa</i>	14	2021	Field observation & trapping	0.09 km south	SPI
Latticed heath	<i>Chiasmia clathrata</i>	32	2022	Field observation & trapping	Within	SPI
Lunar yellow underwing	<i>Noctua orbona</i>	1	2020	-	0.09 km south	SPI
Mottled rustic	<i>Caradrina morpheus</i>	55	2022	Field observation & trapping	0.09 km south	SPI
Mouse moth	<i>Amphipyra tragopoginis</i>	8	2022	Field observation & trapping	Within	SPI
Oak hook-tip	<i>Watsonalla binaria</i>	4	2021	Trapping	0.09 km south	SPI
Oblique carpet	<i>Orthonama vittata</i>	2	2021	-	0.09 km south	SPI
Pale eggar	<i>Trichiura crataegi</i>	1	2022	-	0.78 km south	SPI

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Powdered quaker	<i>Orthosia gracilis</i>	9	2022	Trapping	0.09 km south	SPI
Rosy minor	<i>Litoligia literosa</i>	7	2022	Trapping	0.09 km south	SPI
Rosy rustic	<i>Hydraecia micacea</i>	35	2022	Field observation & trapping	0.09 km south	SPI
Rustic	<i>Hoplodrina blanda</i>	43	2022	Field observation & trapping	Within	SPI
Sallow	<i>Cirrhia icteritia</i>	14	2022	Trapping	0.09 km south	SPI
Sea-aster Colletes bee	<i>Colletes halophilus</i>	8	2019	Field observation	Within	SPI
Shaded broad-bar	<i>Scotopteryx chenopodiata</i>	53	2022	Field observation & trapping	Within	SPI
Shoulder-striped wainscot	<i>Leucania comma</i>	10	2022	Field observation & trapping	0.09 km south	SPI
Small heath	<i>Coenonympha pamphilus</i>	42	2022	Field observation	Within	SPI
Small phoenix	<i>Ecliptopera silaceata</i>	3	2022	Field observation & trapping	0.09 km south	SPI
Small square-spot	<i>Diarsia rubi</i>	74	2022	Field observation & trapping	Within	SPI
Wall	<i>Lasiommata megera</i>	71	2022	Field observation	Within	SPI
White ermine	<i>Spilosoma lubricipeda</i>	78	2023	Field observation & trapping	Within	SPI

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
White-letter hairstreak	<i>Satyrium w-album</i>	3	2022	Field observation	Within	SPI
White-line dart	<i>Euxoa tritici</i>	2	2019	-	0.09 km south	SPI
Fish						
Brown/sea trout	<i>Salmo trutta</i>	2	2016	Field observation	0.30 km north	W&CA; SPI
European eel	<i>Anguilla anguilla</i>	342	2023	Field observation & netting	Within	W&CA; SPI
Smelt	<i>Osmerus eperlanus</i>	3	2010	Field observation	0.30 km south	W&CA; SPI
Spined loach	<i>Cobitis taenia</i>	71	2016	Field observation & netting	Within	W&CA; SPI
Schedule 9 Invasive Non-native Species (INNS)						
American mink	<i>Neovison vison</i>	49	2023	Field observation & trapping	Within	Schedule 9 (Sch 9) INNS
Barnacle goose	<i>Branta leucopsis</i>	152	2022	Field observation	Within	Sch 9 INNS
Canada goose	<i>Branta canadensis</i>	1,439	2022	Field observation & bird survey	Within	Sch 9 INNS
Canadian waterweed	<i>Elodea canadensis</i>	13	2014	Field observation & netting	Within	Sch 9 INNS
Chinese mitten-crab	<i>Eriocheir sinensis</i>	5	2023	Field observation	Within	Sch 9 INNS
Chinese muntjac	<i>Muntiacus reevesi</i>	189	2023	Field observation	Within	Sch 9 INNS
Crane	<i>Grus grus</i>	6	2022	Field observation	Within	Sch 9 INNS

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Eastern grey squirrel	<i>Sciurus carolinensis</i>	126	2023	Field observation	Within	Sch 9 INNS
Egyptian goose	<i>Alopochen aegyptiaca</i>	37	2022	Field observation	Within	Sch 9 INNS
False virginia-creeper	<i>Parthenocissus inserta</i>	3	2021	Field observation	0.22 km north	Sch 9 INNS
Giant hogweed	<i>Heracleum mantegazzianum</i>	4	2013	Field observation	0.21 km west	Sch 9 INNS
Golden pheasant	<i>Chrysolophus pictus</i>	1	2017	Field observation	Within	Sch 9 INNS
Himalayan balsam	<i>Impatiens glandulifera</i>	10	2021	Field observation	Within	Sch 9 INNS
Himalayan cotoneaster	<i>Cotoneaster simonsii</i>	3	2016	Field observation	Within	Sch 9 INNS
Hollyberry cotoneaster	<i>Cotoneaster bullatus</i>	1	2011	Field observation	0.85 km east	Sch 9 INNS
Japanese knotweed	<i>Fallopia japonica</i>	23	2018	Field observation	Within	Sch 9 INNS
Japanese rose	<i>Rosa rugosa</i>	12	2019	Field observation	Within	Sch 9 INNS
Mandarin duck	<i>Aix galericulata</i>	7	2020	Field observation	Within	Sch 9 INNS
Montbretia	<i>Crocasmia x crocosmiiflora</i>	9	2020	Field observation	Within	Sch 9 INNS
New Zealand pygmyweed	<i>Crassula helmsii</i>	4	2021	Field observation	0.22 km north	Sch 9 INNS
Night heron	<i>Nycticorax nycticorax</i>	3	2015	Field observation	Within	Sch 9 INNS
Nuttall's waterweed	<i>Elodea nuttallii</i>	82	2021	Field observation	Within	Sch 9 INNS
Red-crested pochard	<i>Netta rufina</i>	9	2021	Field observation	Within	Sch 9 INNS

Common name	Scientific name	Number of records	Most recent year	Type of record	Closest record distance and direction from the draft Order Limits (approximate)	Legal protection ¹
Rhododendron ponticum	<i>Rhododendron ponticum</i>	2	2017	Field observation	0.19 km north	Sch 9 INNS
Ring-necked parakeet	<i>Psittacula krameri</i>	12	2022	Field observation	Within	Sch 9 INNS
Ruddy duck	<i>Oxyura jamaicensis</i>	61	2008	Field observation	0.05 km north	Sch 9 INNS
Ruddy shelduck	<i>Tadorna ferruginea</i>	6	2018	Field observation	0.16 km north	Sch 9 INNS
Snow goose	<i>Anser caerulescens</i>	3	2014	Field observation	Within	Sch 9 INNS
Variegated yellow archangel	<i>Lamium galeobdolon</i> subsp. <i>argentatum</i>	23	2021	Field observation	Within	Sch 9 INNS
Wall cotoneaster	<i>Cotoneaster horizontalis</i>	5	2016	Field observation	Within	Sch 9 INNS
Water fern	<i>Azolla</i>	2	2008	Field observation & netting	0.60 km east	Sch 9 INNS
Water fern	<i>Azolla filiculoides</i>	40	2018	Field observation & netting	Within	Sch 9 INNS
Waterweed	<i>Elodea</i> sp.	1	2011	Field observation	0.19 km west	Sch 9 INNS

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