

METROLINK

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A15.2

**Desktop Study
Results**



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1. Desktop Study Results

Table 1.1: Records of Protected, Red-Listed or Notable Flora from the Desktop Study in the Vicinity of the Study Area

Common Name/ Scientific Name	Legal Status ¹	Red-List Status ²	Source/ Location
Nettle-leaved Bellflower <i>Campanula trachelium</i>	N/A	Endangered	NBDC online database record Within the vicinity of the proposed Project (2020)
Lesser Snapdragon <i>Misopates orontium</i>	FPO	Endangered	NBDC online database record Belalley Park O1020 (1849)
Round-leaved Crane's-bill <i>Geranium rotundifolium</i>	N/A	Least Concern	NBDC online database record Within the vicinity of the proposed Project (2019)
Tufted Salt-marsh Grass <i>Puccinellia fasciculata</i>	FPO	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (1905)
Opposite-leaved Pondweed <i>Groenlandia densa</i>	FPO	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (1999)
Hairy Violet <i>Viola hirta</i>	FPO	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2012)
Great Burnet <i>Sanguisorba officinalis</i>	FPO	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2016)
Meadow Barley <i>Hordeum secalinum</i>	FPO	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2007)
Hairy St. John's Wort <i>Hypericum hirsutum</i>	FPO	Vulnerable	NBDC online database record Within the vicinity of the proposed (2020)
Betony <i>Stachys officinalis</i>	N/A	Near Threatened	NBDC online database record Within the vicinity of the proposed (2012)
Blunt-fruited Pottia <i>Tortula modica</i>	N/A	Vulnerable	NBDC online database record Within the vicinity of the proposed (2011)
Blue Fleabane <i>Erigeron acris</i>	N/A	Least Concern	NBDC online database record Within the vicinity of the proposed (2017)
Cornflower <i>Centaurea cyanus</i>	N/A	Waiting List	NBDC online database record Within the vicinity of the proposed (2018)
Purple Spurge <i>Euphorbia peplis</i>	N/A	Regionally extinct	NBDC online database record Within the vicinity of the proposed (2016)
Small Cudweed <i>Filago minima</i>	N/A	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2012)
Smooth Brome <i>Bromus racemosus</i>	N/A	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2014)

¹ HDII/IV/V = Habitats Directive Annexes II/IV/V; FPO = Flora Protection Order; WA = Wildlife Acts; BD I = Birds Directive Annex I.

² Vascular flora from Wyse Jackson, M., FitzPatrick, Ú., Cole, E., Jebb, M., McFerran, D., Sheehy Skeffington, M. & Wright, M. (2016) *Ireland Red List No. 10: Vascular Plants*. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Bryophytes from Lockhart, N., Hodgetts, N. & Holyoak, D. (2012) *Ireland Red List No.8: Bryophytes*. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Common Name/ Scientific Name	Legal Status ¹	Red-List Status ²	Source/ Location
Spring Vetch <i>Vicia lathyroides</i>	N/A	Least Concern	NBDC online database record Within the vicinity of the proposed Project (2012)
Yellow Archangel <i>Lamiastrum galeobdolon subsp. montanum</i>	N/A	Least Concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Water-violet <i>Hottonia palustris</i>	N/A	Critically Endangered	NBDC online database record Within the vicinity of the proposed Project (1999)
Sausage Beard-moss <i>Didymodon tormaculosus</i>	N/A	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2003)
Showy Feather-moss <i>Oxyrrhynchium speciosum</i>	N/A	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (1993)
Tufted Feather-moss <i>Scleropodium cespitans</i>	N/A	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2012)

Table 1.2: Records of Protected, Red-Listed or Notable Fauna from the Desktop Study in the Vicinity of the Study Area

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Amphibians			
Common frog <i>Rana temporaria</i>	HD_V, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Smooth newt <i>Triturus vulgaris</i>	WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Reptiles			

³ HDII/IV/V = Habitats Directive Annexes II/IV/V; WA = Wildlife Acts; BD_I/II/III = Birds Directive Annex I/II/III; OSPAR = Convention for the protection of the marine environment of the North-east Atlantic 1992.

⁴ Mammals from Marnell, F., Looney, D. & Lawton, C. (2019) *Ireland Red List No. 12: Terrestrial Mammals*.

Birds from Gilbert, G., Stanbury, A. & Lewis, L. (2021) Birds of Conservation Concern in Ireland 4: 2020-2026. *Irish Birds* 43: 1-22.

Amphibians, reptiles and fish from King, J.L., Marnell, F., Kingston, N., Rosell, R., Boylan, P., Caffrey, J.M., Fitzpatrick, Ú., Gargan, P.G., Kelly, F.L., O'Grady, M.F., Poole, R., Roche, W.K. & Cassidy, D. (2011) *Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish*.

Non-Marine Molluscs from Byrne, A., Moorkens, E.A., Anderson, R., Killeen, I.J. & Regan, E.C. (2009) *Ireland Red List No. 2 – Non-Marine Molluscs*.

Butterflies from Regan, E.C., Nelson, B., Aldwell, B., Bertrand, C., Bond, K., Harding, J., Nash, D., Nixon, D., & Wilson, C.J. (2010) *Ireland Red List No. 4 – Butterflies*.

Moths from Allen, D., O'Donnell, M., Nelson, B., Tyner, A., Bond, K.G.M., Bryant, T., Crory, A., Mellon, C., O'Boyle, J., O'Donnell, E., Rolston, T., Sheppard, R., Strickland, P., Fitzpatrick, U., & Regan, E. (2016) *Ireland Red List No. 9: Macro-moths (Lepidoptera)*.

Damselflies and dragonflies from Nelson, B., Ronayne, C. & Thompson, R. (2011) *Ireland Red List No.6: Damselflies & Dragonflies (Odonata)*.

Water beetles from Foster, G. N., Nelson, B. H. & O Connor, Á. (2009) *Ireland Red List No. 1 – Water beetles*.

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Common Lizard <i>Zootoca vivipara</i>	WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2018)
Mammals (Terrestrial)			
Badger <i>Meles meles</i>	WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Otter <i>Lutra lutra</i>	HD_II & IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2018)
Brown Long-eared Bat <i>Plecotus auritus</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Daubenton's bat <i>Myotis daubentonii</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Natterer's bat <i>Myotis nattereri</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Nathusius's Pipistrelle <i>Pipistrellus nathusii</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Leisler's bat <i>Nyctalus leisleri</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Common pipistrelle <i>Pipistrellus pipistrellus</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Soprano pipistrelle <i>Pipistrellus pygmaeus</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Whiskered/Brandt's Bat <i>Myotis mystacinus/brandtii</i>	HD_IV, WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Eurasian Pygmy Shrew <i>Sorex minutus</i>	WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2020)
Hedgehog <i>Erinaceus europaeus</i>	WA	Least concern	NBDC online database record Within the vicinity of the proposed Project (2021)
Irish Hare <i>Lepus timidus subsp. hibernicus</i>	WA, HD V	Least concern	NBDC online database record Within the vicinity of the proposed Project (2018)
Irish Stoat <i>Mustela erminea subsp. hibernica</i>	WA	Least Concern	NBDC online database record Within the vicinity of the proposed Project (2016)
Pine Marten <i>Martes martes</i>	WA, HD V	Least concern	NBDC online database record Within the vicinity of the proposed Project (2021)
Marine Mammals			
Common Porpoise <i>Phocoena phocoena</i>	WA, HD II, IV	N/A	NBDC online database record Within the vicinity of the proposed Project (2017)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Grey Seal <i>Halichoerus grypus</i>	WA, HD II, V	Least Concern	NBDC online database record Within the vicinity of the proposed Project (2019)
Sperm Whale <i>Physeter macrocephalus</i>	WA, HD IV	N/A	NBDC online database record Within the vicinity of the proposed Project (2001)
Common Dolphin <i>Delphinus delphis</i>	WA, HD IV	N/A	NBDC online database record Within the vicinity of the proposed Project (2019)
Fin Whale <i>Balaenoptera physalus</i>	WA, HD IV	N/A	NBDC online database record Within the vicinity of the proposed Project (2019)
Birds			
Arctic Tern <i>Sterna paradisaea</i>	WA, BD I	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Barn Owl <i>Tyto alba</i>	WA	Red listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Barnacle Goose <i>Branta leucopsis</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2015)
Barn Swallow <i>Hirundo rustica</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Black Guillemot <i>Cephus grylle</i>	WA	Amber listed	NBDC online database record Within 2km of the proposed Project (2019)
Black-headed Gull <i>Larus ridibundus</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Black-legged Kittiwake <i>Rissa tridactyla</i>	WA, OSPAR	Red listed	NBDC online database record Within the vicinity of the proposed Project (2018)
Bar-tailed Godwit <i>Limosa lapponica</i>	WA, BD I	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Black-tailed Godwit <i>Limosa limosa</i>	WA	Red listed	NBDC online database record Within the vicinity of the proposed Project (2012)
Brent Goose <i>Branta bernicla</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Brambling <i>Fringilla montifringilla</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Common Coot <i>Fulica atra</i>	WA, BD II, III	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Common Goldeneye <i>Bucephala clangula</i>	WA, BD II	Red listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Common Guillemot <i>Uria aalge</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2009)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Common Gull <i>Larus canus</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2019)
Common Kestrel <i>Falco tinnunculus</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Common Kingfisher <i>Alcedo atthis</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Common Linnet <i>Carduelis cannabina</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Common Pheasant <i>Phasianus colchicus</i>	WA, BD II	Green Listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Common Pochard <i>Aythya farina</i>	WA, BD II	Red listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Common Redshank <i>Tringa tetanus</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2017)
Common Sandpiper <i>Actitis hypoleucos</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2010)
Common Shelduck <i>Tadorna tadorna</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2012)
Common Snipe <i>Gallinago gallinago</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2017)
Common Starling <i>Sturnus vulgaris</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Common Swift <i>Apus apus</i>	WA	Red listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Common Tern <i>Sterna hirundo</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2017)
Common Wood Pigeon <i>Columba palumbus</i>	WA, BD II, III	Green listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Corncrake <i>Crex crex</i>	WA, BD I	Red listed	NBDC online database record Within the vicinity of the proposed Project (1991)
Dunlin <i>Calidris alpina</i>	WA, BD I	Red listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Eurasian Curlew <i>Numenius arquata</i>	WA, BD II	Red listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Eurasian Oystercatcher <i>Haematopus ostralegus</i>	WA	Red listed	NBDC online database record Within the vicinity of the proposed Project (2017)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Eurasian Teal <i>Anas crecca</i>	WA, BD II	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2017)
European Turtle Dove <i>Streptopelia turtur</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2003)
Eurasian Tree Sparrow <i>Passer montanus</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2018)
Eurasian Wigeon <i>Anas penelope</i>	WA, BD II	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Eurasian Woodcock <i>Scolopax rusticola</i>	WA, BD II	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
European Golden Plover <i>Pluvialis apricaria</i>	WA, BD I	Red listed	NBDC online database record Within the vicinity of the proposed Project (2011)
European Greenfinch <i>Carduelis chloris</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
European Shag <i>Phalacrocorax aristotelis</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (1994)
Gadwall <i>Anas strepera</i>	WA, BD II	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Goldcrest <i>Regulus regulus</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Great Black-backed Gull <i>Larus marinus</i>	WA	Green listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Great Cormorant <i>Phalacrocorax carbo</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Great Crested Grebe <i>Podiceps cristatus</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Greater Scaup <i>Aythya marila</i>	WA, BD II	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2017)
Great Northern Diver <i>Gavia immer</i>	WA, BD I	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Grey Partridge <i>Perdix perdix</i>	WA, BD II	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Grey Plover <i>Pluvialis squatarola</i>	WA	Red listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Grey Wagtail <i>Motacilla cinerea</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2021)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Greylag Goose <i>Anser anser</i>	WA, BD II	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Hen Harrier <i>Circus cyaneus</i>	WA, BD I	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2016)
Herring Gull <i>Larus argentatus</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2020)
House Martin <i>Delichon urbicum</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
House Sparrow <i>Passer domesticus</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Lesser Black-backed Gull <i>Larus fuscus</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Little Egret <i>Egretta garzetta</i>	WA, BD I	Green listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Little Grebe <i>Tachybaptus ruficollis</i>	WA	Green listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Little Gull <i>Larus minutus</i>	WA, BD I	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Mallard <i>Anas platyrhynchos</i>	WA, BD II, III	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Meadow Pipit <i>Anthus pratensis</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2016)
Mediterranean Gull <i>Larus melanocephalus</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Manx Shearwater <i>Puffinus puffinus</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (1994)
Mute Swan <i>Cygnus olor</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Northern Goshawk <i>Accipiter gentilis</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2003)
Northern Lapwing <i>Vanellus vanellus</i>	WA, BD II	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2017)
Northern Shoveler <i>Anas clypeata</i>	WA, BD II	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Northern Wheatear <i>Oenanthe oenanthe</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2019)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Northern Gannet <i>Morus bassanus</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (1994)
Peregrine Falcon <i>Falco peregrinus</i>	WA, BD I	Green Listed	NBDC online database record Within the vicinity of the proposed Project (2016)
Red-breasted Merganser <i>Mergus serrator</i>	WA, BD II	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Red Kite <i>Milvus milvus</i>	WA, BD I	Red listed	NBDC online database record Within the vicinity of the proposed Project (2017)
Red Knot <i>Calidris canutus</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Red-throated Diver <i>Gavia stellata</i>	WA, BD I	Red listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Redwing <i>Turdus iliacus</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Ringed Plover <i>Charadrius hiaticula</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Rock Pigeon <i>Columba livia</i>	WA, BD II	Green listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Ruff <i>Philomachus pugnax</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Sand Martin <i>Riparia riparia</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Short-eared Owl <i>Asio flammeus</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Stock Pigeon <i>Columba oenas</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Sky Lark <i>Alauda arvensis</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2020)
Smew <i>Mergellus albellus</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2016)
Spotted Flycatcher <i>Muscicapa striata</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Spotted Redshank <i>Tringa erythropus</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Tufted Duck <i>Aythya fuligula</i>	WA, BD II,III	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Turnstone <i>Arenaria interpres</i>	WA	Amber Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Velevt Scoter <i>Melanitta fusca</i>	WA	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Water Rail <i>Rallus aquaticus</i>	WA	Green listed	NBDC online database record Within the vicinity of the proposed Project (2011)
Whooper Swan <i>Cygnus cygnus</i>	WA, BD I	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
White-tailed Eagle <i>Haliaeetus albicilla</i>	WA, BD I	Red Listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Yellowhammer <i>Emberiza citrinella</i>	WA	Amber listed	NBDC online database record Within the vicinity of the proposed Project (2021)
Invertebrates			
Buffish Mining Bee <i>Andrena (Melandrena) nigroaenea</i>	none	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2021)
Gooden's Nomad Bee <i>Nomada goodeniana</i>	none	Endangered	NBDC online database record Within the vicinity of the proposed Project (2020)
<i>Hylaeus (Prosopis) brevicornis</i>	none	Endangered	NBDC online database record Within the vicinity of the proposed Project (2003)
Large Red Tailed Bumble Bee <i>Bombus (Melanobombus) lapidarius</i>	nona	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2021)
Moss Carder-bee <i>Bombus (Thoracombus) muscorum</i>	None	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2020)
<i>Megachile (Megachile) centuncularis</i>	None	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2020)
Dark Green Fritillary <i>Argynnis aglaja</i>	none	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2010)
Marsh Fritillary <i>Euphydryas aurinia</i>	HD II	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2020)
Small Blue <i>Cupido minimus</i>	None	Endangered	NBDC online database record Within the vicinity of the proposed Project (2010)
Small Heath <i>Coenonympha pamphilus</i>	None	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2020)
Wall <i>Lasiommata megera</i>	None	Endangered	NBDC online database record Within the vicinity of the proposed Project (2011)

Common Name/ Scientific Name	Legal Status ³	Red-List Status ⁴	Source/ Location
Grayling <i>Hipparchia semele</i>	None	Near Threatened	NBDC online database record Within the vicinity of the proposed Project (2016)
<i>Ephemereilla notata</i>	none	Endangered	NBDC online database record Within the vicinity of the proposed Project (2010)
Scarce Blue-tailed Damselfly <i>Ischnura pumilio</i>	none	Vulnerable	NBDC online database record Within the vicinity of the proposed Project (2017)

Table 1.3: Records of Invasive Species Listed on the Third Schedule of the European Communities (Birds and Natural Habitats) Regulations 2011 in the Vicinity of the Study Area

Common Name/ Scientific Name	Legal Status ⁵	Impact Status ⁶	Source/ Location
Flora			
Japanese Knotweed <i>Reynoutria japonica</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2021)
Bohemian Knotweed <i>F. x bohémica = Fallopia japonica x sachalinensis</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2015)
Giant Knotweed <i>Fallopia sachalinensis</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2017)
Brazilian Giant-rhubarb <i>Gunnera manicata</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2019)
Giant-rhubarb <i>Gunnera tinctoria</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2020)
Giant Hogweed <i>Heracleum mantegazzianum</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2021)
Indian Balsam <i>Impatiens glandulifera</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2021)
Canadian pondweed <i>Elodea canadensis</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2020)
Common Cord-grass <i>Spartina anglica</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2014)
Curly Waterweed <i>Lagarosiphon major</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (1999)
Nuttall's pondweed <i>Elodea nuttallii</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2019)

⁵ HDII/IV/V = Habitats Directive Annexes II/IV/V; FPO = Flora Protection Order; WA = Wildlife Acts; BD I = Birds Directive Annex I.

⁶ Impact status is based on 2013 Invasive Species in Ireland risk assessment: Kelly, J., O'Flynn, C. and Maguire C. (2013) *Risk analysis and prioritisation for invasive and non-native species in Ireland and Northern Ireland*.

Common Name/ Scientific Name	Legal Status ⁵	Impact Status ⁶	Source/ Location
New Zealand Pigmyweed <i>Crassula helmsii</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2009)
Parrot's-feather <i>Myriophyllum aquaticum</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2009)
Water Fern <i>Azolla filiculoides</i>	none	Medium Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (1999)
Spanish Bluebell <i>Hyacinthoides hispanica</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2021)
Turkey Oak <i>Quercus cerris</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2019)
American Skunk-cabbage <i>Lysichiton americanus</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2019)
Three-cornered Garlic <i>Allium triquetrum</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2021)
Butterfly-bush <i>Buddleja davidii</i>	none	Medium Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2022)
Canadian Fleabane <i>Conyza canadensis</i>	none	Medium Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2020)
Common Broomrape <i>Orobanche minor</i>	none	Medium Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2021)
Cherry Laurel <i>Prunus laurocerasus</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2022)
Evergreen Oak <i>Quercus ilex</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2020)
Himalayan Honeysuckle <i>Leycesteria Formosa</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2021)
False-acacia <i>Robinia pseudoacacia</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2012)
Japanese Rose <i>Rosa rugosa</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2018)
Sycamore <i>Acer pseudoplatanus</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2021)
Least Duckweed <i>Lemna minuta</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (1993)
Narrow-leaved Ragwort <i>Senecio inaequidens</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2021)

Common Name/ Scientific Name	Legal Status ⁵	Impact Status ⁶	Source/ Location
Pampas-grass <i>Cortaderia selloana</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2019)
Russian-vine <i>Fallopia baldschuanica</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2018)
Traveller's-joy <i>Clematis vitalba</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2021)
Wild Parsnip <i>Pastinaca sativa</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2020)
Rhododendron <i>Rhododendron ponticum</i>	None	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2004)
Sea-buckthorn <i>Hippophae rhamnoides</i>	None	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2021)
Tree-of-heaven <i>Ailanthus altissima</i>	none	Medium Impact Invasive species	NBDC online database record Within the vicinity of the proposed Project (2009)
Fauna			
Ruddy Duck <i>Oxyura jamaicensis</i>	None	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2014)
Rose-ringed Parakeet <i>Psittacula krameri</i>	None	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2021)
American Mink <i>Mustela vison</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2020)
Brown Rat <i>Rattus norvegicus</i>	none	High Impact Invasive Species	NBDC online database record Within 2km of the proposed Project (2020)
European Rabbit <i>Oryctolagus cuniculus</i>	none	Medium Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2020)
Feral Ferret <i>Mustela furo</i>	none	High Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2018)
Greater White-toothed Shrew <i>Crocidura russula</i>	none	Medium Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2017)
Grey Squirrel <i>Sciurus carolinensis</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2020)
Fallow Deer <i>Dama dama</i>	None	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2018)
House Mouse <i>Mus musculus</i>	none	Medium Impact Invasive Species	NBDC online database record Within 2km of the proposed Project (2018)
Roach <i>Rutilus rutilus</i>	none	Medium Impact Invasive Species	NBDC online database record Within 2km of the proposed Project (2012)
Red-eared Terrapin <i>Trachemys scripta</i>	none	Medium Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2014)
Harlequin Ladybird <i>Harmonia axyridis</i>	none	High Impact Invasive Species	NBDC online database record Within the vicinity of the proposed Project (2022)

Common Name/ Scientific Name	Legal Status ⁵	Impact Status ⁶	Source/ Location
Jenkins' Spire Snail <i>Potamopyrgus antipodarum</i>	none	Medium Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2017)
<i>Physella acuta</i>	Non	Medium Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2000)
Common Garden Snail <i>Cornu aspersum</i>	none	Medium Impact Invasive species	NBDC online database record Within 2km of the proposed Project (2016)
Australian flatworm <i>Australoplana sanguinea</i>	none	Medium Impact Invasive Species	NBDC online database record Within 2km of the proposed Project (2021)
New Zealand flatworm <i>Arthurdendyus triangulatus</i>	none	High Impact Invasive Species	NBDC online database record Within 2km of the proposed Project (2020)
<i>Arthurdendyus triangulatus</i>	none	High Impact Invasive Species	NBDC online database record Within 2km of the proposed Project (2018)