

Appendix C. Water Dependent Qualifying Interest Species and Habitats

Annex II species which are water dependent and their sensitivities³⁰

Species name	Common name	Code	Surface water dependent	Groundwater dependent	Marine water dependent**	Sensitivity to hydrological impacts	Sensitivity to water pollution	Overall Status ³¹
<i>Vertigo geyeri</i>	Geyer's whorl snail	1013		✓		High	High	Bad
<i>Vertigo moulinsiana</i>	Desmoulin's whorl snail	1016	✓	✓		High	High	Inadequate
<i>Margaritifera margaritifera</i>	Freshwater pearl mussel	1029	✓			High*	High*	Bad
<i>Austropotamobius pallipes</i>	White-clawed crayfish	1092	✓			Medium to High	Medium to High	Bad
<i>Salmo salar</i>	Atlantic salmon	1106	✓		✓	High	High	Inadequate
<i>Petalophyllum ralfsii</i>	Petalwort	1395		✓		High	High	Favourable
<i>Najas flexilis</i>	Slender naiad	1833	✓			High	High	Inadequate
<i>Margaritifera durrovensis</i>	Nore pearl mussel	1990	✓			High	High*	Bad
<i>Trichomanes speciosum</i>	Killarney fern	1421	✓			High	Medium	Favourable
<i>Saxifraga hirculus</i>	Yellow marsh saxifrage	1528		✓		High	Medium	Favourable

³⁰ Table adapted from Western RBD, ESBI, Eleanor Mayes, Ecological Consultant. (2008). Water Framework Directive Annex IV Protected Areas: Water Dependent Habitats and Species in High Status Sites. Available online

³¹ National Parks and Wildlife Service (2019a). The Status of EU Protected Habitats and Species in Ireland. Volume 1: Summary Overview. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill.

* species extremely sensitive to sedimentation and changes in hydrology, flow regime etc.

** water pollution affecting marine mammals from any of the proposed option types is considered unlikely given the assimilative nature of the marine environment and its very large assimilative capacity

Species name	Common name	Code	Surface water dependent	Groundwater dependent	Marine water dependent**	Sensitivity to hydrological impacts	Sensitivity to water pollution	Overall Status ³¹
<i>Petromyzon marinus</i>	Sea lamprey	1095	✓		✓	High	Medium	Bad
<i>Lampetra planeri</i>	Brook lamprey	1096	✓			High	Medium	Favourable
<i>Lampetra fluviatilis</i>	River lamprey	1099	✓			High	Medium	Unknown
<i>Alosa alosa</i>	Allis shad	1102	✓		✓	High	Medium	Vagrant
<i>Alosa fallax</i>	Twaite shad	1103	✓		✓	High	Medium	Bad
<i>Lutra lutra</i>	Otter	1355	✓		✓	Medium	Medium	Favourable
<i>Vertigo angustior</i>	Narrow-mouthed whorl snail	1014		✓		Medium	Medium	Inadequate
<i>Tursiops truncatus</i>	Bottle-nosed dolphin	1349			✓	N/A	-	Favourable
<i>Phocoena phocoena</i>	Harbour porpoise	1351			✓	N/A	-	Favourable
<i>Halichoerus grypus</i>	Grey seal	1364			✓	N/A	-	Favourable
<i>Phoca vitulina</i>	Common seal	1365			✓	N/A	-	Favourable

Appendix D.

* species extremely sensitive to sedimentation and changes in hydrology, flow regime etc.

Appendix E.

** water pollution affecting marine mammals from any of the proposed option types is considered unlikely given the assimilative nature of the marine environment and its very large assimilative capacity

Annex I water dependent habitats

Habitat code	Habitat name	Habitat status ³²
1110	Sandbanks which are slightly covered by sea water all the time	Favourable
1130	Estuaries	Inadequate
1140	Mudflats and sandflats not covered by seawater at low tide	Inadequate
1150	Coastal lagoons	Bad
1160	Large shallow inlets and bays	Bad
1170	Reefs	Inadequate
1210	Annual vegetation of drift lines	Inadequate
1220	Perennial vegetation of stony banks	Inadequate
1230	Vegetated sea cliffs of the Atlantic and Baltic coasts	Inadequate
1310	Salicornia and other annuals colonising mud and sand	Favourable
1330	Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>)	Inadequate
1410	Mediterranean salt meadows (<i>Juncetalia maritimi</i>)	Inadequate
1420	Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)	Bad
2110	Embryonic shifting dunes	Inadequate
2120	Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes)	Inadequate
2130	Fixed coastal dunes with herbaceous vegetation (grey dunes)	Bad
2140	Decalcified fixed dunes with <i>Empetrum nigrum</i>	Favourable
2150	Atlantic decalcified fixed dunes (<i>Calluno-Ulicetea</i>)	Inadequate
2170	Dunes with <i>Salix repens</i> ssp. <i>argentea</i> (<i>Salicion arenariae</i>)	Inadequate
2190	Humid dune slacks	Inadequate
21A0	Machairs (* in Ireland)	Inadequate
3110	Oligotrophic waters containing very few minerals of sandy plains (<i>Littorelletalia uniflorae</i>)	Bad
3130	Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or <i>Isoeto-Nanojuncetea</i>	Inadequate
3140	Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp.	Bad
3150	Natural eutrophic lakes with Magnopotamion or Hydrocharition - type vegetation	Inadequate
3160	Natural dystrophic lakes and ponds	Inadequate
3180	Turloughs	Inadequate
3260	Water courses of plain to montane levels with the <i>Ranunculion fluitantis</i> and <i>Callitricho-Batrachion</i> vegetation	Inadequate
3270	Rivers with muddy banks with <i>Chenopodion rubri</i> p.p. and <i>Bidention</i> p.p. vegetation	Favourable
4010	Northern Atlantic wet heaths with <i>Erica tetralix</i> (flushes only)	Bad
6410	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>)	Bad
6430	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	Bad

³² National Parks and Wildlife Service (2019a). The Status of EU Protected Habitats and Species in Ireland. Volume 1: Summary Overview. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill.

Habitat code	Habitat name	Habitat status ³²
7110	Active raised bogs	Bad
7120	Degraded raised bogs still capable of natural regeneration	Bad
7130	Blanket bogs (* if active bog)	Bad
7140	Transition mires and quaking bogs	Bad
7150	Depressions on peat substrates of the <i>Rhynchosporion</i>	Bad
7210	Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	Inadequate
7220	Petrifying springs with tufa formation (<i>Cratoneurion</i>)	Inadequate
7230	Alkaline fens	Bad
8310	Caves not open to the public	Favourable
8330	Submerged or partially submerged sea caves	Favourable
91D0	Bog woodland	Favourable
91E0	Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (<i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i>)	Bad