

Supporting Information
Screening for Appropriate
Assessment

NISA
North Irish Sea Array

Appendix 8

Winter Birds



Appendix 8 Wintering Waterbird Survey Results

Table 1 - Monthly high and low tide wintering waterbird counts undertaken at Malahide Estuary in winter 2021-22

Common name	BoCCI 2020-2026	EU	High-tide counts							Low-tide counts				
			20 Oct 2021	19 Nov 2021	17 Dec 2021	17 Jan 2022	14 Feb 2022	28 Feb 2022	10 Mar 2022	30 Oct 2021	11 Nov 2021	13 Dec 2021	25 Jan 2022	15 Mar 2022
Bar-tailed godwit	Red ^{Win.}	I			38					1	1			
Black-tailed godwit	Red ^{Win.}			18	119	38		81	1	156	75	28	22	30
Curlew	Red ^{Br. & Win.}				1	33					1		28	
Dunlin	Red ^{Br. & Win.}	I			241	134			1	3			5	
Golden plover	Red ^{Br. & Win.}	I				1			1000					
Grey plover	Red ^{Win.}					2								
Lapwing	Red ^{Br. & Win.}			93	134	148	24			22	2	69	145	
Oystercatcher	Red ^{Br. & Win.}		16	13	92	106	11	48	24	42	40	90	73	23
Redshank	Red ^{Br. & Win.}		2	8	99	57	3	27	33	71	24	32	29	8
Goldeneye	Red ^{Win.}		1	3	26	15	3	4	1		11	25	13	
Scaup (Greater)	Red ^{Win.}				1							1		
Black-headed gull	Amber ^{Br. & Win.}		218	513	499	526	661	574	470	1056	1510	417	534	208
Common gull	Amber ^{Br. & Win.}		27	35	78	29	29	24	42	34	224	37	22	6
Herring gull	Amber ^{Br. & Win.}		107	130	241	317	272	167	257	158	225	310	197	258
Lesser black-backed gull	Amber ^{Br. & Win.}		1				1	9	9	2				11
Kingfisher	Amber ^{Br.}	I							2					1
Brent goose	Amber ^{Win.}		5	124	694	602	3286	25	457	7	132	743	592	655
Mute swan	Amber ^{Br. & Win.}		39	52	38	66	60	57	67	70	51	58	66	80
Whooper swan	Amber ^{Br. & Win.}	I	2											
Turnstone	Amber ^{Win.}			6	3	11		16	10		1	4	1	

Cormorant	Amber Br. & Win.		24	14	41	24			1	6	12	44	2	3
Gadwall	Amber Br. & Win.								2					
Great crested grebe	Amber Br. & Win.		12	23	8	2	3	16	3	15	14	39	5	8
Mallard	Amber Br. & Win.		20	69	115	66	48	38	62	51	97	91	106	35
Red-breasted merganser	Amber Br. & Win.		33	24	20		20	38	13	9	22	34	5	9
Shelduck	Amber Br. & Win.							9	2					4
Teal	Amber Br. & Win.		2	67	78	43	51	24	35	76	50	96	37	59
Tufted duck	Amber Br. & Win.										1			
Great black-backed gull	Green		18	14	26	14	7	13	7	16	18	43	5	11
Greenshank	Green		11		4	9		1	8	6	6	7	11	
Little egret	Green	I	7	10	8	7	8	12	5	3	3	5	6	5
Grey heron	Green		10	8	10	10	10	5	7	7	9	12	11	9
Little grebe	Green		25	10	38	9	15	15	13	16	16	42	24	14
Moorhen	Green			2	2	2	4	2	1	2		2	2	
Mallard - domesticated/ feral	Green				6		1		3				6	

Table 2 - Monthly high and low tide wintering waterbird counts undertaken at Landfall site in winter 2021-22

Common name	BoCCI 2020-2026	EU	High-tide counts						Low-tide counts					
			23 Oct 2021	17 Nov 2021	23 Dec 2021	18 Jan 2022	14 Feb 2022	15 Mar 2022	29 Oct 2021	14 Dec 2021	28 Dec 2021	11 Jan 2022	28 Feb 2022	10 Mar 2022
Kittiwake	Red Br.				1					1	2		2	
Razorbill	Red Br.							10				3	1	
Bar-tailed godwit	Red Win.	I	2		3	3				1				
Black-tailed godwit	Red Win.							6	6	7	3	2	1	
Curlew	Red Br. & Win.		61	17	93	59	156	10	149	114	16	71	115	10
Dunlin	Red Br. & Win.	I	66	259	30	113	4	8		1	43	53	60	26
Golden plover	Red Br. & Win.	I		281	19	63	1	2	47	119	30	21		
Grey plover	Red Win.		3	15	16	11	27	5		4	9	3	3	4
Knot	Red Win.			3				2	5					
Lapwing	Red Br. & Win.		5	12	52	25				14	61	44	28	
Oystercatcher	Red Br. & Win.		48	151	121	93	61	53	96	35	91	95	25	45
Purple sandpiper	Red Win.				3	7	5	11				2		1
Redshank	Red Br. & Win.		35	60	27	21	43	47	23	21	58	20	44	43
Snipe	Red Br. & Win.									1				
Common scoter	Red Br. & Win.		17	1009	700	1000	400	1000	100	800	500	800	1660	1200
Eider	Red Br. & Win.													2
Black-headed gull	Amber Br. & Win.		275	68	175	155	34	1	128	129	77	183	20	6
Common gull	Amber Br. & Win.		13	5	100		28	3	70	197	16	37	23	8
Herring gull	Amber Br. & Win.		222	276	86	143	256	374	592	644	231	613	484	339
Lesser black-backed gull	Amber Br. & Win.		5					2					11	4
Mediterranean gull	Amber Br.	I	66	1						13	2			

Guillemot (Common)	Amber ^{Br.}		1	3	3	1	4	11	2		8		4	14
Gannet	Amber ^{Br.}							1						
Shag	Amber ^{Br.}		15	45	8		4	2	5	6		23	3	6
Black guillemot (Tystie)	Amber ^{Br.}			2	1	3	2	4		11		11	2	5
Brent goose	Amber ^{Win.}		34	33	64	11	28	43	29	29	79	14	70	131
Ringed plover	Amber ^{Br.}		80	79		64				9	47	28	24	13
Turnstone	Amber ^{Win.}		23	45	56	29	37	48	9	3	15	10	14	6
Cormorant	Amber ^{Br. & Win.}		51	32	18	22	23	83	58	25	28	21	54	105
Great crested grebe	Amber ^{Br. & Win.}		1	1	55	3	10	5		15	10	40	38	8
Mallard	Amber ^{Br. & Win.}			5		3	4	4	4		1			7
Great northern diver	Wintering	I									6	2		2
Red-throated diver	Amber ^{Br. & Win.}	I		11	30	10	7	4		18	20	17	7	35
Red-breasted merganser	Amber ^{Br. & Win.}						1							
Shelduck	Amber ^{Br. & Win.}							1						
Teal	Amber ^{Br. & Win.}						4	11						17
Great black-backed gull	Green		1	6	6	9	9	8	16	7	15	3	16	12
Greenshank	Green			10	15	8	10	15	3	7	9	7	4	3
Sanderling	Green											1	4	
Little egret	Green	I		3		1		1	6	2		2		1
Grey heron	Green			2	3	4		3	8	6	7	7	3	
Little grebe	Green													
Moorhen	Green						1	4					2	6

Table 3 - Monthly wintering waterbird peak counts at the Landfall site and Malahide Estuary at high tide (HT) and low tide (LT)

Common name	BoCCI 2020-2026	EU ¹	Oct-21	Nov-21 ²	Dec-21 ³	Jan-22	Feb-22	Mar-22	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			Landfall						Malahide Estuary					
Kittiwake	Red Br.		1 (LT)	-	2 (LT)	-	2 (LT)	-	-	-	-	-	-	-
Razorbill	Red Br.		-	-	-	3 (LT)	10 (HT)	-	-	-	-	-	-	-
Bar-tailed godwit	Red Win.	I	2 (HT)	-	3 (HT)	3 (HT)	-	-	1 (LT)	1 (LT)	38 (HT)	-	-	-
Black-tailed godwit	Red Win.		6 (LT)	-	7 (LT)	2 (LT)	1 (LT)	6 (HT)	156 (LT)	75 (LT)	119 (HT)	38 (HT)	81 (LT)	30 (LT)
Curlew	Red Br. & Win.		149 (LT)	17 (HT)	114 (LT)	71 (LT)	156 (HT)	10 (HT & LT)	-	1 (LT)	1 (HT)	33 (HT)	-	-
Dunlin	Red Br. & Win.	I	66 (HT)	259 (HT)	43 (LT)	113 (HT)	60 (LT)	26 (LT)	3 (LT)	-	241 (HT)	134 (HT)	-	1 (HT)
Golden plover	Red Br. & Win.	I	47 (LT)	281 (HT)	119 (LT)	63 (HT)	1 (HT)	2 (HT)	-	-	-	1 (HT)	-	1000 (HT)
Grey plover	Red Win.		3 (HT)	15 (HT)	16 (HT)	11 (HT)	27 (HT)	5 (HT)	-	-	-	2 (HT)	-	-
Knot	Red Win.		-	3 (HT)	-	-	2 (HT)	5 (HT)	-	-	-	-	-	-
Lapwing	Red Br. & Win.		14 (LT)	12 (HT)	61 (LT)	28 (LT)	-	-	22 (LT)	93 (HT)	134 (HT)	148 (HT)	24 (HT)	-
Oystercatcher	Red Br. & Win.		96 (LT)	151 (HT)	121 (HT)	95 (LT)	61 (HT)	53 (HT)	42 (LT)	40 (LT)	92 (HT)	106 (HT)	48 (LT)	24 (HT)
Purple sandpiper	Red Win.		-	-	3 (HT)	7 (HT)	5 (HT)	11 (HT)	-	-	-	-	-	-
Redshank	Red Br. & Win.		35 (HT)	60 (HT)	58 (LT)	21 (HT)	44 (LT)	47 (HT)	71 (LT)	24 (LT)	99 (HT)	57 (HT)	27 (LT)	33 (HT)
Snipe	Red Br. & Win.		-	-	1 (LT)	-	-	-	-	-	-	-	-	-

¹ Species of bird listed in Annex I and/or referred to in Article 4(2) of the Birds Directive

² No low tide count undertaken in November 2021

³ One high tide and two low tide counts undertaken in December 2021

Common scoter	Red Br. & Win.		100 (LT)	1009 (HT)	800 (LT)	1000 (HT)	1660 (LT)	1200 (LT)	-	-	-	-	-	-
Eider	Red Br. & Win.		-	-	-	-	-	2 (LT)	-	-	-	-	-	-
Goldeneye	Red Win.		-	-	-	-	-	-	1 (HT)	11 (LT)	26 (HT)	15 (HT)	4 (LT)	1 (HT)
Scaup (Greater)	Red Win.		-	-	-	-	-	-	-	-	1 (HT & LT)	-	-	-
Black-headed gull	Amber Br. & Win.		275 (HT)	68 (HT)	175 (HT)	183 (LT)	34 (HT)	6 (LT)	1056 (LT)	1510 (LT)	499 (HT)	534 (LT)	661 (HT)	470 (HT)
Common gull	Amber Br. & Win.		70 (LT)	5 (HT)	197 (LT)	37 (LT)	28 (HT)	8 (LT)	34 (LT)	224 (LT)	78 (HT)	29 (HT)	29 (HT)	42 (HT)
Herring gull	Amber Br. & Win.		592 (LT)	276 (HT)	644 (LT)	613 (LT)	484 (LT)	374 (HT)	158 (LT)	225 (LT)	310 (LT)	317 (HT)	272 (HT)	258 (LT)
Lesser black-backed gull	Amber Br. & Win.		5 (HT)	-	-	-	11 (LT)	4 (LT)	2 (LT)	-	-	-	9 (LT)	11 (LT)
Mediterranean gull	Amber Br.	I	66 (HT)	1 (HT)	2 (LT)	-	-	-	-	-	-	-	-	-
Kingfisher	Amber Br.	I	-	-	-	-	-	-	-	-	-	-	-	2 (HT)
Guillemot (Common)	Amber Br.		2 (LT)	3 (HT)	8 (LT)	1 (HT)	4 (HT & LT)	14 (LT)	-	-	-	-	-	-
Gannet	Amber Br.		-	-	-	-	-	1 (HT)	-	-	-	-	-	-
Shag	Amber Br.		15 (HT)	45 (HT)	8 (HT)	23 (LT)	4 (HT)	6 (LT)	-	-	-	-	-	-
Black guillemot (Tystie)	Amber Br.		-	2 (HT)	11 (LT)	11 (LT)	2 (HT & LT)	5 (LT)	-	-	-	-	-	-
Brent goose	Amber Win.		34 (HT)	33 (HT)	79 (LT)	14 (LT)	70 (LT)	131 (LT)	7 (LT)	132 (LT)	743 (LT)	602 (HT)	3286 (HT)	655 (LT)
Mute swan	Amber Br. & Win.		-	-	-	-	-	-	70 (LT)	52 (HT)	58 (LT)	66 (HT & LT)	60 (HT)	80 (LT)
Whooper swan	Amber Br. & Win.	I	-	-	-	-	-	-	2 (HT)	-	-	-	-	-
Ringed plover	Amber Br.		80 (HT)	79 (HT)	47 (LT)	64 (HT)	24 (LT)	13 (LT)	-	-	-	-	-	-
Turnstone	Amber Win.		23 (HT)	45 (HT)	56 (HT)	29 (HT)	37 (HT)	48 (HT)	-	6 (HT)	4 (LT)	11 (HT)	16 (LT)	10 (HT)
Cormorant	Amber Br. & Win.		58 (LT)	32 (HT)	28 (LT)	22 (HT)	54 (LT)	105 (LT)	24 (HT)	14 (HT)	44 (LT)	24 (HT)	-	3 (LT)
Gadwall	Amber Br. & Win.		-	-	-	-	-	-	-	-	-	-	-	2 (HT)
Great crested grebe	Amber Br. & Win.		1 (HT)	1 (HT)	55 (HT)	40 (LT)	38 (LT)	8 (LT)	15 (LT)	23 (HT)	39 (LT)	5 (LT)	16 (LT)	8 (LT)
Mallard	Amber Br. & Win.		-	5 (HT)	1 (LT)	3 (HT)	4 (HT)	7 (LT)	51 (LT)	97 (LT)	115 (HT)	106 (LT)	48 (HT)	62 (HT)

Great northern diver	Wintering	I	-	-	6 (LT)	2 (LT)	-	2 (LT)	33 (HT)	24 (HT)	34 (LT)	5 (LT)	38 (LT)	13 (HT)
Red-throated diver	Amber Br. & Win.	I	-	11 (HT)	30 (HT)	17 (LT)	7 (HT & LT)	35 (LT)	-	-	-	-	-	-
Red-breasted merganser	Amber Br. & Win.		-	-	-	-	1 (HT)	-	-	-	-	-	-	-
Shelduck	Amber Br. & Win.		-	-	-	-	-	1 (HT)	-	-	-	-	9 (LT)	4 (LT)
Teal	Amber Br. & Win.		-	-	-	-	4 (HT)	17 (LT)	76 (LT)	67 (HT)	96 (LT)	43 (HT)	51 (HT)	59 (LT)
Tufted duck	Amber Br. & Win.		-	-	-	-	-	-	-	1 (LT)	-	-	-	-