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ESTUARIES
OFFSHORE WIND FARM

FIVE ESTUARIES
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VOLUME 4, ANNEX 4.6: SEABIRD PEAK
SEASONAL ABUNDANCES

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Date: 01 December 2022

Tel: 0141 342 5404

Web: www.macarthurgreen.com

Address: 93 South Woodside Road | Glasgow | G20 6NT

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1 INTRODUCTION

This annex provides tables of seabird peak abundance in each species-specific season, as defined in Furness (2015)¹ for each species recorded during baseline surveys for the Five Estuaries Offshore Windfarm (VE) project (March 2019 – February 2021).

Abundances were estimated using design-based methods and are summarised as central estimate (i.e. extrapolated from the number seen in the surveyed area to the whole area) and 95% confidence range, derived from 1,000 nonparametric bootstrap samples.

¹ Furness, R.W. 2015. Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Report Number 164. 389 pp.

Table 1. VE North. Seasonal peak abundance of Black-headed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	10.13 (5.4)	0-20.27	23.64 (9.6)	6.76-40.53
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.52 (2.88)	0-10.55

Table 2. VE North. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3.37 (2.75)	0-10.11	6.72 (5.44)	0-16.8	10.08 (6.2)	0-23.53

Table 3. VE North. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	3.52 (2.73)	0-7.04	3.52 (2.75)	0-10.55	3.52 (2.87)	0-10.55
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3.52 (2.73)	0-7.04	3.52 (2.75)	0-10.55	3.52 (2.87)	0-10.55

Table 4. VE North. Seasonal peak abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	21.06 (16.24)	0-56.24	24.44 (18.41)	0-66.29	28.11 (10.83)	7.06-49.16
Autumn migration	0 (0)	0-0	3.51 (2.57)	0-7.02	6.88 (5.02)	0-17.28
Winter	0 (0)	0-0	3.52 (2.81)	0-10.55	3.52 (2.87)	0-10.55
Non-breeding	0 (0)	0-0	0 (0)	0-0	6.88 (5.02)	0-17.28

Table 5. VE North. Seasonal peak abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.21 (14.46)	0-53.9	26.95 (17.76)	0-64	30.32 (17.71)	3.37-67.37
Breeding (full)	49.25 (23.4)	7.06-98.35	112.62 (36.24)	49.31-186.42	186.57 (38.48)	112.91-260.22
Autumn migration	142.46 (69.14)	24.48-281.54	393.78 (105.19)	200.34-604.82	574.64 (95.2)	391.07-761.29
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 6. VE North. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3.38 (2.76)	0-10.13	6.85 (5.54)	0-20.56	13.7 (7.75)	0-27.41
Breeding (full)	3.51 (2.92)	0-10.54	3.56 (2.12)	0-7.11	3.56 (2.15)	0-7.11
Autumn migration	3.51 (2.8)	0-10.53	7.04 (3.5)	0-14.07	37.36 (21.31)	0-74.71
Winter	16.87 (11.28)	0-40.51	37.1 (17.07)	10.11-70.85	124.7 (56.62)	33.69-249.41
Non-breeding	16.87 (11.28)	0-40.51	37.1 (17.07)	10.11-70.85	124.7 (56.62)	33.69-249.41

Table 7. VE North. Seasonal peak abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	211.61 (108.7)	26.87-426.57	547.48 (128.14)	288.85-785.97	1071.45 (170.99)	735.48-1404.08
Breeding (full)	236.24 (88.88)	69.82-413	565.13 (99.86)	371.05-769.91	1055.62 (131.34)	805.91-1315.87
Autumn migration	57.17 (28.11)	6.73-114.33	90.79 (27.64)	40.35-144.6	131.3 (26.97)	84.07-181.9
Winter	83.84 (33.28)	21.11-150.23	181.45 (43.59)	97.76-265.14	324.64 (42.42)	244.77-408.04
Non-breeding	211.61 (108.7)	26.87-426.57	547.48 (128.14)	288.85-785.97	1071.45 (170.99)	735.48-1404.08

Table 8. VE North. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	238.47 (122.5)	30.31-480.75	618.02 (144.76)	326.05-887.49	1185.69 (190.14)	812.44-1555.86
Breeding (full)	250 (94.4)	73.33-437.9	592.65 (104.66)	389.05-807.18	1100.41 (137.06)	839.82-1371.87
Autumn migration	57.17 (28.11)	6.73-114.33	90.79 (27.64)	40.35-144.6	138.18 (30.27)	86.28-193.54
Winter	90.87 (36)	23.22-162.9	209.3 (50.34)	112.69-305.9	373.01 (50.12)	278.88-471.02
Non-breeding	238.47 (122.5)	30.31-480.75	618.02 (144.76)	326.05-887.49	1185.69 (190.14)	812.44-1555.86

Table 9. VE North. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	312.37 (160.47)	39.75-629.74	806.11 (188.7)	425.3-1157.32	1548.44 (248.08)	1061.36-2031.35
Breeding (full)	326.41 (123.22)	95.81-571.63	776.35 (137.1)	509.63-1057.38	1440.57 (179.44)	1099.41-1795.96
Autumn migration	73.98 (36.38)	8.7-147.96	117.7 (35.82)	52.31-187.44	182.06 (40.6)	112.83-255.79
Winter	118.87 (47.04)	30.61-213.12	275.54 (66.29)	148.32-402.76	488.06 (65.54)	364.97-616.24
Non-breeding	312.37 (160.47)	39.75-629.74	806.11 (188.7)	425.3-1157.32	1548.44 (248.08)	1061.36-2031.35

Table 10. VE North. Seasonal peak abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	38.47 (28.32)	0-94.36	38.47 (28.81)	0-101.38	38.47 (29.2)	0-101.47
Autumn migration	3.36 (2.77)	0-10.09	3.36 (2.72)	0-10.09	10.41 (6.28)	0-24.18
Winter	6.74 (4.85)	0-16.84	13.49 (8.13)	0-30.36	33.7 (10.66)	13.47-53.94
Non-breeding	6.74 (4.85)	0-16.84	13.49 (8.13)	0-30.36	33.7 (10.66)	13.47-53.94

Table 11. VE North. Seasonal peak abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	40.3 (24.47)	0-90.76	114.19 (47.39)	26.87-208.24	154.51 (49.03)	67.19-255.28
Breeding (full)	105.39 (45.41)	28.02-196.72	216.77 (63.11)	101.49-338.99	419.5 (76.5)	273.04-572.89
Autumn migration	31.07 (16.79)	0-65.51	82.21 (25.23)	34.14-130.27	158.62 (30.66)	101.24-219.37
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	40.3 (24.47)	0-90.76	114.19 (47.39)	26.87-208.24	158.62 (30.66)	101.24-219.37

Table 12. VE North. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	3.51 (1.8)	0-7.03
Breeding (full)	477.31 (355.08)	0-1291.56	477.31 (363.44)	0-1309.1	519.03 (371.97)	17.42-1357.75
Autumn migration	10.4 (6.38)	0-24.16	17.28 (7.87)	3.52-31.04	20.8 (8.55)	3.52-38.08
Winter	3.38 (2.76)	0-10.13	6.75 (3.91)	0-13.5	20.66 (12.48)	0-48.21
Non-breeding	10.4 (6.38)	0-24.16	17.28 (7.87)	3.52-31.04	20.8 (8.55)	3.52-38.08

Table 13. VE North. Seasonal peak abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	7.01 (5.57)	0-14.2	7.01 (5.5)	0-21.04	10.37 (8.13)	0-27.76
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3.52 (2.86)	0-10.55	3.52 (2.76)	0-10.55	10.41 (6.01)	0-20.81

Table 14. VE North. Seasonal peak abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	3.51 (1.87)	0-7.03
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.51 (1.87)	0-7.03

Table 15. VE North. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	3.51 (1.87)	0-7.03
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.51 (1.87)	0-7.03

Table 16. VE North. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	3.51 (1.87)	0-7.03
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.51 (1.87)	0-7.03

Table 17. VE North. Seasonal peak abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	157.06 (63.44)	38.64-282.35	398.57 (79.16)	249.71-554.3	651.49 (73.7)	503.07-789.61
Breeding (full)	10.52 (5.22)	0-21.04	48.65 (20.97)	14.03-93.34	93.49 (32.7)	34.77-162.58
Autumn migration	57.58 (31.8)	0-121.9	111.5 (45.31)	26.96-202.87	166.56 (57.66)	57.58-278.91
Winter	185.65 (88.66)	10.15-357.78	523.36 (113.67)	310.63-746.25	921.96 (155.54)	648.31-1253.22
Non-breeding	185.65 (88.66)	10.15-357.78	523.36 (113.67)	310.63-746.25	921.96 (155.54)	648.31-1253.22

Table 18. VE North. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	163.93 (66.68)	39.66-295.66	415.69 (82.71)	260.22-578.41	679.01 (77.07)	523.85-823.43
Breeding (full)	10.52 (5.22)	0-21.04	52.16 (22.12)	15.3-99.08	100.5 (34.92)	37.72-174.39
Autumn migration	61.09 (33.81)	0-128.92	111.5 (45.31)	26.96-202.87	170.07 (59.07)	58.28-285.23
Winter	239.59 (115.63)	11.28-464.15	621.19 (134.53)	369.05-884.1	1050.18 (174.68)	741.72-1421.04
Non-breeding	239.59 (115.63)	11.28-464.15	621.19 (134.53)	369.05-884.1	1050.18 (174.68)	741.72-1421.04

Table 19. VE North. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	198.77 (81.05)	47.79-358.9	502.34 (99.92)	314.51-698.91	824.5 (93.6)	636.07-999.88
Breeding (full)	14.03 (6.96)	0-28.06	66.03 (28.34)	19.13-126.36	121.24 (42.26)	45.31-210.6
Autumn migration	71.34 (39.52)	0-150.32	121.62 (49.3)	29.57-221.14	187.2 (65.25)	63.57-314.46
Winter	290.21 (140.14)	13.53-562.37	749.48 (162.32)	445.27-1066.68	1269.67 (211.24)	896.68-1718.18
Non-breeding	290.21 (140.14)	13.53-562.37	749.48 (162.32)	445.27-1066.68	1269.67 (211.24)	896.68-1718.18

Table 20. VE North. Seasonal peak abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	16.8 (9.3)	3.36-36.96
Breeding (full)	0 (0)	0-0	6.82 (4.84)	0-13.64	6.82 (4.84)	0-13.64
Autumn migration	0 (0)	0-0	3.52 (2.75)	0-10.55	3.52 (2.9)	0-10.55
Winter	3.38 (2.78)	0-10.13	6.75 (3.37)	0-13.5	6.75 (3.28)	0-13.5
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 21. VE North. Seasonal peak abundance of Sandwich tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	3.51 (2.42)	0-7.01
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 22. VE South. Seasonal peak abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	3.54 (2.69)	0-7.08
Winter	0 (0)	0-0	3.53 (2.68)	0-7.06	3.53 (2.71)	0-7.15
Non-breeding	0 (0)	0-0	3.53 (2.68)	0-7.06	3.54 (2.69)	0-7.08

Table 23. VE South. Seasonal peak abundance of Black-headed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	6.74 (3.81)	0-13.48	6.74 (3.83)	0-13.48	16.84 (7.7)	3.37-33.69
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3.53 (2.8)	0-10.6	13.81 (9.37)	0-34.36	17.34 (9.78)	0-38.16

Table 24. VE South. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	3.54 (3)	0-10.62	3.54 (2.85)	0-10.62
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	10.07 (5.21)	0-20.14	16.79 (6.71)	6.63-30.22	30.28 (6.87)	16.82-43.73

Table 25. VE South. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	3.37 (2.76)	0-10.11	6.72 (5.28)	0-16.89
Autumn migration	0 (0)	0-0	0 (0)	0-0	13.46 (7.49)	0-26.92
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	13.46 (7.49)	0-26.92

Table 26. VE South. Seasonal peak abundance of Cormorant recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	21.25 (16.87)	0-42.51	21.25 (17.84)	0-63.76	21.25 (17.83)	0-63.76
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	21.25 (16.87)	0-42.51	21.25 (17.84)	0-63.76	21.25 (17.83)	0-63.76

Table 27. VE South. Seasonal peak abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	24.28 (8.7)	6.94-41.63	76.84 (46.11)	7-174.53	132.81 (53.97)	38.48-244.5
Autumn migration	3.54 (2.68)	0-7.08	17.71 (11.49)	0-42.51	120.26 (45.34)	31.88-215.55
Winter	0 (0)	0-0	3.53 (2.65)	0-7.06	3.53 (2.72)	0-7.15
Non-breeding	3.54 (2.68)	0-7.08	17.71 (11.49)	0-42.51	120.26 (45.34)	31.88-215.55

Table 28. VE South. Seasonal peak abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	10.07 (7.87)	0-26.85	40.14 (20.64)	6.68-80.31	157 (58.4)	53.41-270.61
Breeding (full)	84.98 (63.74)	0-233.71	120.39 (70.03)	10.62-258.49	159.57 (94.18)	17.34-319.14
Autumn migration	140.81 (53.53)	45.76-249.99	245.97 (63.15)	122.9-361.9	382.93 (54.22)	277.76-491.63
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 29. VE South. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	6.81 (5.6)	0-20.43	23.71 (11.53)	0-44.06	54.16 (22.95)	16.9-101.6
Breeding (full)	0 (0)	0-0	10.53 (5.81)	0-21.05	21.05 (7.92)	3.51-38.6
Autumn migration	10.63 (8.82)	0-31.88	45.16 (21.99)	10.45-90.15	123.09 (51.53)	28.16-221.39
Winter	0 (0)	0-0	13.47 (8.46)	0-33.67	26.93 (9.72)	10.1-47.13
Non-breeding	10.63 (8.82)	0-31.88	45.16 (21.99)	10.45-90.15	123.09 (51.53)	28.16-221.39

Table 30. VE South. Seasonal peak abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	3.36 (2.59)	0-6.73
Breeding (full)	3.5 (2.86)	0-10.5	7 (4.14)	0-13.99	13.99 (4.8)	3.5-24.49
Autumn migration	0 (0)	0-0	3.54 (2.8)	0-10.63	7.08 (3.67)	0-14.17
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	3.54 (2.8)	0-10.63	7.08 (3.67)	0-14.17

Table 31. VE South. Seasonal peak abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	991.79 (279.36)	447.35-1529.83	2020.19 (333.21)	1375.47-2674.92	2998.52 (270.05)	2457.36-3533.08
Breeding (full)	137.31 (55.15)	41.23-250.33	310.3 (68.81)	176.24-444.25	704.53 (154.33)	431.83-991.37
Autumn migration	24.53 (11.08)	7.01-45.55	48.79 (23.99)	10.51-100.81	76.01 (31.26)	20.89-141.51
Winter	144.5 (63.08)	35.32-271.43	217.88 (69.17)	87.82-355.17	361.9 (70.31)	239.23-505.84
Non-breeding	991.79 (279.36)	447.35-1529.83	2020.19 (333.21)	1375.47-2674.92	2998.52 (270.05)	2457.36-3533.08

Table 32. VE South. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1088.74 (309.13)	487.13-1684.33	2217.33 (367.88)	1505.38-2940.19	3302.53 (299.67)	2702.01-3895.84
Breeding (full)	147.6 (59.3)	44.31-269.12	324.18 (71.42)	184.8-463.26	735.53 (161.13)	450.7-1035.05
Autumn migration	28.03 (12.66)	8.01-52.06	48.79 (23.99)	10.51-100.81	83.02 (33.86)	23.39-154.03
Winter	162.16 (70.68)	39.85-304.5	246.13 (78.21)	99.13-401.43	404.12 (78.44)	267.39-564.71
Non-breeding	1088.74 (309.13)	487.13-1684.33	2217.33 (367.88)	1505.38-2940.19	3302.53 (299.67)	2702.01-3895.84

Table 33. VE South. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1412.67 (400.67)	632.77- 2184.57	2891.87 (479.59)	1963.73- 3834.24	4310.99 (391.13)	3527.2- 5085.35
Breeding (full)	192.25 (77.15)	57.88- 350.33	424.22 (93.31)	242.04- 605.94	960 (210.3)	588.27- 1350.92
Autumn migration	35.04 (15.83)	10.01-65.08	62.81 (30.14)	14.02-127.68	107.28 (43.63)	30.49- 198.79
Winter	214.99 (93.86)	52.53- 403.84	319.99 (101.68)	128.86- 521.91	527.11 (102.32)	348.74- 736.59
Non-breeding	1412.67 (400.67)	632.77- 2184.57	2891.87 (479.59)	1963.73- 3834.24	4310.99 (391.13)	3527.2- 5085.35

Table 34. VE South. Seasonal peak abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	6.81 (5.18)	0-13.62	16.98 (10.02)	0-37.33
Breeding (full)	7 (5.7)	0-20.99	49.39 (36.33)	0-134.2	49.39 (34.83)	0-130.66
Autumn migration	3.5 (2.85)	0-10.51	13.46 (7.46)	0-26.92	16.82 (9.23)	0-33.65
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3.5 (2.85)	0-10.51	13.46 (7.46)	0-26.92	16.98 (10.02)	0-37.33

Table 35. VE South. Seasonal peak abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	43.54 (16.71)	13.38-77.03	101.82 (29.7)	47.51-159.5	193.62 (35.91)	125.69-264.84
Breeding (full)	103.17 (38.99)	31.11-182.18	262.41 (63.1)	141.78-379.46	532.65 (140.86)	273.37-795.36
Autumn migration	57.41 (23.59)	16.89-104.68	138.41 (43.39)	60.79-222.78	266.05 (59.52)	157.67-392.08
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	57.41 (23.59)	16.89-104.68	138.41 (43.39)	60.79-222.78	266.05 (59.52)	157.67-392.08

Table 36. VE South. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3.36 (2.64)	0-10.07	3.36 (2.61)	0-6.71	3.36 (2.61)	0-6.71
Breeding (full)	111.82 (65.06)	0-258.5	823.08 (612.98)	27.25-2267.01	1201.14 (869.12)	76.1-3249.25
Autumn migration	10.63 (6.3)	0-24.8	82.17 (45.33)	13.81-157.26	198.17 (70.92)	61.81-341.09
Winter	6.75 (5.73)	0-20.24	10.44 (8.15)	0-24.24	23.71 (11.72)	6.73-50.95
Non-breeding	10.63 (6.3)	0-24.8	82.17 (45.33)	13.81-157.26	198.17 (70.92)	61.81-341.09

Table 37. VE South. Seasonal peak abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	7.06 (3.96)	0-14.13	7.06 (4.02)	0-14.13

Table 38. VE South. Seasonal peak abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	3.53 (2.94)	0-10.6
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.53 (2.94)	0-10.6

Table 39. VE South. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	3.53 (2.94)	0-10.6
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.53 (2.94)	0-10.6

Table 40. VE South. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	3.53 (2.94)	0-10.6
Non-breeding	0 (0)	0-0	0 (0)	0-0	3.53 (2.94)	0-10.6

Table 41. VE South. Seasonal peak abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	130.48 (52.02)	37.93-233.29	206.13 (60.58)	96.57-325.75	485.66 (146.68)	233.88-751.29
Breeding (full)	13.79 (11.37)	0-41.36	20.91 (11.09)	0-45.18	34.66 (15.8)	7.02-65.8
Autumn migration	13.48 (8.41)	0-30.32	130.87 (60.15)	23.99-258.36	200.27 (64.06)	86.39-331.28
Winter	89.91 (50.42)	6.74-193.32	219.65 (87.04)	69.92-390.16	462.28 (86.3)	300.39-637.66
Non-breeding	137.11 (61.47)	33.41-267.66	284.19 (67.01)	163.65-414.65	578.27 (102.57)	387.64-775.61

Table 42. VE South. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	133.95 (53.26)	39.14-239.16	212.95 (62.84)	99.4-337.13	509.6 (153.42)	246.03-787.73
Breeding (full)	13.79 (11.37)	0-41.36	20.91 (11.09)	0-45.18	34.66 (15.8)	7.02-65.8
Autumn migration	13.48 (8.41)	0-30.32	134.37 (61.81)	24.49-265.37	217.8 (69.44)	94.18-359.5
Winter	100.35 (56.18)	7.31-215.31	244.21 (96.61)	78.19-433.26	543.21 (102.96)	349.9-752.66
Non-breeding	157.23 (71.14)	37.35-308.08	317.68 (75.69)	181.17-464.98	648.57 (115.36)	434.36-870.64

Table 43. VE South. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	161.37 (64.41)	46.82-288.68	254.13 (75.21)	118.33-402.81	612.89 (184.48)	295.94-947.34
Breeding (full)	13.79 (11.37)	0-41.36	24.42 (12.77)	0-52.2	38.16 (17.23)	8.02-72.32
Autumn migration	16.85 (10.51)	0-37.9	162 (74.57)	29.37-320.03	262.81 (83.73)	113.71-433.59
Winter	121.06 (67.85)	8.99-260.11	296.55 (117.3)	94.98-526.09	657.92 (124.74)	423.72-911.69
Non-breeding	180.62 (81.42)	43.35-353.38	377.85 (89.73)	216.15-552.5	768.91 (136.72)	515.01-1032.08

Table 44. VE South. Seasonal peak abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3.37 (2.75)	0-10.1	13.41 (6.72)	0-23.45	13.41 (6.84)	0-23.45
Breeding (full)	0 (0)	0-0	3.47 (2.79)	0-10.41	6.83 (5.49)	0-20.48
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	6.73 (5.6)	0-20.2	10.1 (3.63)	3.37-16.83
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 45. VE South. Seasonal peak abundance of Sandwich tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Abundance					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	3.5 (2.88)	0-10.51	3.5 (3)	0-10.51	3.5 (2.88)	0-10.51
Non-breeding	3.5 (2.88)	0-10.51	3.5 (3)	0-10.51	3.5 (2.88)	0-10.51



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PHONE
EMAIL
WEBSITE
ADDRESS

COMPANY NO

0333 880 5306

fiveestuaries@rwe.com

www.fiveestuaries.co.uk

Five Estuaries Offshore Wind Farm Ltd
Windmill Hill Business Park
Whitehill Way, Swindon, SN5 6PB
Registered in England and Wales
company number 12292474

