



# BERWICK BANK WIND FARM OFFSHORE ENVIRONMENTAL IMPACT ASSESSMENT

## APPENDIX 11.6, ANNEX C: THRESHOLD APPLICATION FOR POPULATION VIABILITY ANALYSIS

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Environmental Impact  
Assessment – Appendix  
11.6, Annex C  
Final

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**Approval for Issue**

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**Table 1: Summary of percentage (%) point increase in estimated annual mortality of breeding adults**

Species	Site	Estimate breeding adults	Developer Approach	Scoping Approach A	Scoping Approach B	% Point increase in adult mortality		
			Adult annual mortalities minus breeding sabbaticals	Adult annual mortalities minus breeding sabbaticals	Adult annual mortalities minus breeding sabbaticals	Developer Approach	Scoping Approach A	Scoping Approach B
Gannet	Forth Islands SPA	150518	154.8	183.0	245.2	0.10	0.12	0.15
	Flamborough and Filey Coast	26784	2.7	3.2	4.6	0.01	0.01	0.01
	North Rona and Sula Sgeir	22460	0.4	0.5	0.8	0.00	0.00	0.00
	Fair Isle	9942	0.5	0.6	0.8	0.00	0.01	0.00
	Noss	27530	1.4	1.7	2.6	0.01	0.01	0.00
	Hermaness, Saxa Vord and Valla Field	51160	2.2	2.6	4.1	0.00	0.01	0.00
	Sule Skerry and Sule Stack	18130	0.5	0.6	0.9	0.00	0.00	0.00
Guillemot	Forth Islands SPA	34580	37.2	91.3	180.5	0.11	0.26	0.52
	St Abb's Head to Fast Castle SPA	61408	110.8	310.3	576.1	0.18	0.51	0.94
	Fowlsheugh SPA	91358	89.0	259.9	473.3	0.10	0.28	0.52
	Farne Islands SPA	85816	36.6	79.4	167.2	0.04	0.09	0.19
	Buchan Ness to Collieston Coast	39553	5.0	9.6	21.5	0.01	0.02	0.05
Herring gull	Troup, Pennan and Lion's Heads	31893	2.5	5.2	11.1	0.01	0.02	0.03
	Forth Islands	11868	10.2	17.1	N/A	0.09	0.14	N/A
Kittiwake	Fowlsheugh	1414	0.6	1.0	N/A	0.04	0.07	N/A
	St Abb's Head to Fast Castle	612	0.4	0.8	N/A	0.07	0.12	N/A
	Farne Islands SPA	1496	0.5	0.9	N/A	0.03	0.06	N/A
	Forth Islands SPA	9034	28.9	36.2	43.3	0.32	0.40	0.48
	Fowlsheugh SPA	26542	87.0	109.0	130.5	0.33	0.41	0.49
	St Abb's Head to Fast Castle SPA	10904	253.3	312.6	371.3	2.32	2.87	3.41
	Farne Islands SPA	8804	23.3	29.3	35.2	0.26	0.33	0.40
	Buchan Ness to Collieston Coast	22590	11.4	16.5	21.0	0.05	0.07	0.09
	Troup, Pennan & Lions Head	21232	9.0	14.1	18.4	0.04	0.07	0.09
	East Caithness cliffs	48920	18.4	30.7	41.1	0.04	0.06	0.08
Lesser-Black Back gull	North Caithness cliffs	7712	4.5	7.6	10.2	0.06	0.10	0.13
	Coquet island	932	0.3	0.5	0.6	0.03	0.05	0.07
	Flamborough and Filey Coast	91008	17.0	28.5	38.2	0.02	0.03	0.04
	West Westray	5486	5.4	9.0	12.1	0.10	0.16	0.22
	Forth Islands	4006	2.0	2.8	N/A	0.05	0.07	N/A
	Farne Islands	1362	0.5	0.7	N/A	0.04	0.05	N/A
	Coquet Island	40	0.0	0.0	N/A	0.03	0.03	N/A
Puffin	Forth Islands	87240	5.1	18.2	30.2	0.01	0.02	0.03
	Farne Islands	87504	3.6	12.9	21.4	0.00	0.01	0.02
	North Caithness cliffs	3034	0.0	0.0	0.1	0.00	0.00	0.00
	Coquet Island	50058	1.01	3.61	6.00	0.00	0.01	0.01
	Hoy	361	0.0	0.0	0.0	0.00	0.00	0.00
Razorbill	Forth Islands	7878	3.6	10.6	19.0	0.05	0.12	0.24
	St Abb's Head to Fast Castle	3928	2.6	8.3	14.4	0.07	0.21	0.37
	Fowlsheugh SPA	17817	4.3	12.7	23.0	0.02	0.07	0.13
	Troup, Pennan and Lion's Heads	6054	0.8	1.5	3.2	0.01	0.02	0.05
	Farne Islands	572	0.1	0.2	0.5	0.02	0.04	0.07
	East Caithness cliffs	40117	3.9	5.3	14.8	0.01	0.01	0.04
	Flamborough and Filey Coast	37476	3.0	3.8	11.0	0.01	0.01	0.03

