

## 6C.6 Summary and Conclusions

- 140 The intertidal and near-shore water bird survey data demonstrates that the Survey Area corresponding to the Application Site supports a reasonably high diversity of waterbird species typical of coastal areas in the Firth of Forth, including various species of waterfowl (predominantly seaducks), wading birds, divers, grebes and seabirds.
- 141 The comparative WeBS data corresponded reasonably well with the intertidal and near shore bird survey data. This demonstrated that the survey data was a good representation of the diversity and abundance of the waterbird assemblage which typically occurs within the Survey Area around the Export Cable Landfall.
- 142 In terms of the importance of the coastal habitats within the Survey Area for qualifying species of designated sites associated with the Firth of Forth, many of the associated species were recorded within the Survey Area. In general however, the data shows that the intertidal shore and near shore waters are of low importance to most associated qualifying species, typically only supporting small, albeit occasionally significant, numbers (i.e. approximately one per cent) relative to the various designated site's qualifying species' populations. Only a few species regularly occurred in significant numbers throughout the seasonal periods in which they typically occur and hence, for which they are designated. Table 6C.17 presents a list of the species for each designated site which occurred in significant proportions of their respective SPA populations within the Survey Area as well as the frequency in which they occurred in such numbers during the periods for which they are designated (i.e. regularly, occasionally or rarely).

Table 6C.17: Summary List of SPA Qualifying Species Recorded in Significant Numbers (i.e. < than one per cent) Relative to their Respective SPA Populations

Firth of Forth SPA	Imperial Dock Lock, Leith SPA	Forth Islands SPA	Outer Firth of Forth and St. Andrews Bay Complex pSPA
<p>Regularly:</p> <ul style="list-style-type: none"> <li>• Eider</li> <li>• Red-throated diver</li> <li>• Sandwich tern</li> <li>• Turnstone</li> <li>• Cormorant</li> </ul> <p>Occasionally:</p> <ul style="list-style-type: none"> <li>• Slavonian grebe</li> <li>• Velvet scoter</li> <li>• Red-breasted merganser</li> </ul> <p>Rarely:</p> <ul style="list-style-type: none"> <li>• Common scoter</li> <li>• Long-tailed duck</li> </ul>	<p>None</p>	<p>Regularly:</p> <ul style="list-style-type: none"> <li>• Herring gull</li> <li>• Sandwich tern</li> </ul> <p>Occasionally:</p> <ul style="list-style-type: none"> <li>• Common scoter</li> <li>• Cormorant</li> <li>• Shag</li> </ul> <p>Rarely:</p> <ul style="list-style-type: none"> <li>• Guillemot</li> <li>• Razorbill</li> </ul>	<p>Regularly:</p> <ul style="list-style-type: none"> <li>• Herring gull (breeding &amp; non-breeding)</li> </ul> <p>Occasionally:</p> <ul style="list-style-type: none"> <li>• Slavonian grebe</li> <li>• Velvet scoter</li> <li>• Red-breasted merganser</li> <li>• Shag (breeding &amp; non-breeding)</li> </ul> <p>Rarely:</p> <ul style="list-style-type: none"> <li>• Guillemot (breeding)</li> </ul>

<ul style="list-style-type: none"> <li>• Goldeneye</li> <li>• Great crested grebe</li> <li>• Oystercatcher</li> <li>• Ringed plover</li> </ul>			
<p>Notes:</p> <p>* Species associated with the:</p> <ul style="list-style-type: none"> <li>• Firth of Forth SPA is designated for its important populations during the non-breeding season, although Sandwich tern is designated specifically for the post-breeding period;</li> <li>• Imperial Dock Lock, Leith SPA and Forth Islands SPA are designated for their important populations during the breeding season only; and</li> <li>• Proposed Outer Firth of Forth and St. Andrews Bay Complex (p)SPA is designated for its important populations during the breeding and non-breeding seasons (depending on the species).</li> </ul> <p>'Regularly' is broadly taken to refer to species which were present in significant proportions of their associated SPA population on most of the surveys undertaken during the period for which the species is designated.</p> <p>'Occasionally' is broadly taken to refer to species which were present in significant proportions of their associated SPA population on fewer than half of the surveys undertaken during the period for which the species is designated.</p> <p>'Rarely' is broadly taken to refer to species which were present in significant proportions of their associated SPA population on just one or two of the surveys undertaken during the period for which the species is designated.</p>			

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## Annex 1 – Qualifying Species Associated with Firth of Forth International Designated Sites

Table A1.1: Qualifying Species of the Firth of Forth SPA

Species	Qualifying Population*	Updated SPA Population**	Qualifying Season
Bar-tailed godwit	1,974	1,614	Non-breeding
Golden plover	2,949	1,125	Non-breeding
Red-throated diver	90	68	Non-breeding
Slavonian grebe	84	32	Non-breeding
Sandwich tern	1,617	1,242	Post-breeding
Knot	9,258	4,590	Non-breeding
Pink-footed goose	10,852	21,375	Non-breeding
Redshank	4,341	4,058	Non-breeding
Shelduck	4,509	3,475	Non-breeding
Turnstone	860	945	Non-breeding
Common scoter	2,880	1,249	Non-breeding
Cormorant	682	513	Non-breeding
Curlew	1,928	3,337	Non-breeding
Dunlin	9,514	6,409	Non-breeding
Eider	9,400	5,506	Non-breeding
Goldeneye	3,004	1,249	Non-breeding
Great crested grebe	720	78	Non-breeding
Grey plover	724	411	Non-breeding
Lapwing	4,148	2,218	Non-breeding
Long-tailed duck	1,045	177	Non-breeding
Mallard	2,564	1,342	Non-breeding
Oystercatcher	7,846	7,102	Non-breeding
Red-breasted merganser	670	279	Non-breeding
Ringed plover	328	952	Non-breeding
Scaup	437	22	Non-breeding
Velvet scoter	635	623	Non-breeding

Species	Qualifying Population*	Updated SPA Population**	Qualifying Season
Wigeon	2,139	2,889	Non-breeding
Assemblage	95,000	79,884	Non-breeding
Note: * SPA Qualifying Populations based on Firth of Forth SPA citation (2001) ** Updated SPA populations based on site condition monitoring data provided by SNH for the period 2010/11-2014/15.			

Table A1.2: Qualifying Species of the Imperial Dock Lock, Leith SPA

Species	Qualifying Population*	Updated SPA Population**	Qualifying Season
Common tern	558	782	Breeding
Note: * SPA Qualifying Populations based on Imperial Dock Lock, Leith SPA citation (2004) ** Updated SPA populations based on site condition monitoring data provided by SNH for the period 2012-2017.			

Table A1.3: Qualifying Species of the Forth Islands SPA

Species	Qualifying Population*	Updated SPA Population**	Qualifying Season
Arctic tern	540	415	Breeding
Common tern	334	58	Breeding
Sandwich tern	440	4	Breeding
Roseate tern	8	0	Breeding
Northern gannet	21,000	75,259	Breeding
European shag	2,400	981	Breeding
Lesser black-backed gull	1,500	2,458	Breeding
Atlantic puffin	14,000	51,665	Breeding
Razorbill	1,400	3,839	Breeding
Common guillemot	16,000	23,453	Breeding
Herring gull	6,600	5,936	Breeding
Kittiwake	8,400	3,911	Breeding
Cormorant	200	167	Breeding

Species	Qualifying Population*	Updated SPA Population**	Qualifying Season
Fulmar	798	1,024	Breeding
Seabird assemblage	74,220	16,9171	Breeding
Note:			
* SPA Qualifying Populations based on Forth Islands SPA citation (2009)			
** Updated SPA populations based on site condition monitoring data provided by SNH for the period 2012-2016.			

Table A1.4: Qualifying Species of the Outer Firth of Forth and St. Andrews Bay Complex PSPA

Species	Qualifying Population*	Qualifying Season
Red-throated diver	850	Non-breeding
Slavonian grebe	30	Non-breeding
Little gull	126	Non-breeding
Common tern	890 pairs	Breeding
Arctic tern	540 pairs	Breeding
Common eider	21,550	Non-breeding
Long-tailed duck	1,950	Non-breeding
Common scoter	4,680	Non-breeding
Velvet scoter	770	Non-breeding
Goldeneye	590	Non-breeding
Red-breasted merganser	370	Non-breeding
Northern gannet	10,950	Non-breeding
Manx shearwater	2,890	Breeding
European shag	2,400	Breeding
	2,430	Non-breeding
Black-legged kittiwake	12,020	Breeding
	3190	Non-breeding
Common guillemot	21,970	Breeding
	21,970	Non-breeding
Atlantic puffin	61,090	Non-breeding

Species	Qualifying Population*	Qualifying Season
Black-headed gull	28,120	Breeding
	26,830	Non-breeding
Common gull	14,650	Non-breeding
Herring gull	3,040	Breeding
	12,310	Non-breeding
<p>Note:</p> <p>* Proposed SPA Qualifying Populations taken from SNH (2016).</p>		





Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Cormorant	Total							2	2					
	0-500 m			2	1	1	1	4	7	8	1	2		1
	500 m-1 km			1			1	2				4	1	
	1 km-1.5 km						1		1					
Curlew	Total			3	1	1	3	6	8	8	1	6	1	1
	0-500 m		2	1					1	1	2	1		
	500 m-1 km													
	1 km-1.5 km													
Eider	Total		2	1					1	1	2	1		
	0-500 m	17	8	13	11	10	7	19	20	34	10		28	42
	500 m-1 km	7	2	7	7	2	2	6	4	4	18	20	15	64
	1 km-1.5 km		8		4	4	1	1	6	1	2	9		30
Gannet	Total	24	18	20	22	16	10	26	30	39	30	29	43	136
	0-500 m									2	1			
	500 m-1 km					1								
	1 km-1.5 km						2	11	6					
Goldeneye	Total					1	2	11	6		1			
	0-500 m	20												



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
	Total	22	29	71	56	46	69	38	60	66	35	69	42	59
Kittiwake	0-500 m									1				
	500 m-1 km													
	1 km-1.5 km													
	Total									1				
Lesser Black-backed Gull	0-500 m			2					1	1	1	1		
	500 m-1 km													
	1 km-1.5 km													
	Total			2				1	1	1	1	1		
Little Grebe	0-500 m							1						
	500 m-1 km													
	1 km-1.5 km													
	Total							1						
Long-tailed Duck	0-500 m			1								1		1
	500 m-1 km													
	1 km-1.5 km			2										
	Total			3								1		1
Oystercatcher	0-500 m	2	10	36		3	2	2	6	7	1	13	2	



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Redshank	Total													
	0-500 m		3									2		1
	500 m-1 km													
Red-throated Diver	1 km-1.5 km													
	Total		3									2		1
	0-500 m										1			
	500 m-1 km											1		
Sandwich Tern	1 km-1.5 km										1	1		
	Total										2	2		
	0-500 m					9	4	10	28	1				
	500 m-1 km					2	1							
Shag	1 km-1.5 km													
	Total					11	5	10	28	1				
	0-500 m	2	1	3	2		1	4	14	6	7	5	6	2
	500 m-1 km										2	1	5	
Slavonian Grebe	1 km-1.5 km										1			
	Total	2	1	3	2		1	4	14	6	10	6	11	2
	0-500 m											2		1

Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
	500 m-1 km													
	1 km-1.5 km													
	Total											2		1
Turnstone	0-500 m		21	2					2	5	5	10	5	8
	500 m-1 km													
	1 km-1.5 km													
	Total		21	2					2	5	5	10	5	8
Velvet Scoter	0-500 m	2		12		1						1		1
	500 m-1 km			6	1						4	6	4	2
	1 km-1.5 km				4									
	Total	2		18	5	1					4	7	4	3

Table A2.2 – Monthly Peak Counts of Intertidal and Coastal Birds Recorded per Distance Band in Sector B (Former Cockenzie Power Station Sea Front)

Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Black-headed Gull	0-500 m				2				110		12	9	27	27
	500 m- 1 km										1	4	1	
	1 km-1.5 km											100		22
	Total				2				110		13	113	28	49
Common Gull	0-500 m	1			2				118	1	5	2	22	16
	500 m- 1 km									1				
	1 km-1.5 km													
	Total	1			2				118	2	5	2	22	16
Common Scoter	0-500 m	1			2									33
	500 m- 1 km		1											
	1 km-1.5 km					1								
	Total	1	1		2									33
Common Tern	0-500 m						1							
	500 m- 1 km													
	1 km-1.5 km													
	Total						1							

Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Cormorant	0-500 m		8		4	2		16	14	2	15	17	15	
	500 m-1 km													
	1 km-1.5 km						2					1		
	Total		8		4	2	18	14	2	15	18	15		
Curlew	0-500 m										1			
	500 m-1 km													
	1 km-1.5 km													
	Total										1			
Eider	0-500 m	30	9	46	31	7	8		10	96	15		23	29
	500 m-1 km		10		22	4	2	3	2	9	5	8	39	4
	1 km-1.5 km		2	9	6							3		49
	Total	30	21	55	59	11	10	3	12	105	20	11	62	82
Fulmar	0-500 m									1				
	500 m-1 km													
	1 km-1.5 km													
	Total									1				
Gannet	0-500 m								6					
	500 m-1 km					4	2			2				



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
	1 km-1.5 km					36		6	40	12				
	Total					40	2	6	46	14				
Great Black-backed Gull	0-500 m		3		2		2	2	10		3	1	3	1
	500 m-1 km						1				2			1
	1 km-1.5 km			1		5			2			1	1	
	Total		3	1	2	5	3	2	12		5	2	4	2
Great Crested Grebe	0-500 m									2				
	500 m-1 km													
	1 km-1.5 km													
	Total									2				
Guillemot	0-500 m			2		1	17	1	313	27	2			1
	500 m-1 km					11	10	4	35	14	34	2		
	1 km-1.5 km					6	4	2	66	30	4			
	Total			2		18	31	7	414	71	40	2		1
Herring Gull	0-500 m	8	18	15	67	39	42	72	399	9	17	8	16	36
	500 m-1 km			17	2	41	32		20	10	8	1		3
	1 km-1.5 km			6	1	35	1	1	11	4		102	2	
	Total	8	18	38	70	115	75	73	430	23	25	111	18	39



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Oystercatcher	1 km-1.5 km													
	Total						1							
	0-500 m	12	10	2	5	4	1	4		10	9	15	11	7
	500 m-1 km													
Puffin	1 km-1.5 km													
	Total	12	10	2	5	4	1	4		10	9	15	11	7
	0-500 m													
	500 m-1 km					2								
Razorbill	1 km-1.5 km					6	1							
	Total					8	1							
	0-500 m		1	1					323		1			
	500 m-1 km			15		7	2	1	33		2			
Red-breasted Merganser	1 km-1.5 km			2		13	3	1	60					
	Total		1	18		20	5	2	416		3			
	0-500 m		1										1	
	500 m-1 km											1		
Total	1 km-1.5 km													
	500 m-1 km													
	Total		1									1		1

Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Red-necked Grebe	0-500 m													
	500 m-1 km													
	1 km-1.5 km													
	Total													
Redshank	0-500 m	1										1	2	
	500 m-1 km													
	1 km-1.5 km													
	Total	1										1	2	
Red-throated Diver	0-500 m									2		2		1
	500 m-1 km									2	1	1		
	1 km-1.5 km										1	2		
	Total									4	2	5		1
Sandwich Tern	0-500 m					5	1	6	7	1				
	500 m-1 km							2	16					
	1 km-1.5 km													
	Total					5	1	8	23	1				
Shag	0-500 m	3	3	3	17	1		9	25	6	28	5	19	8
	500 m-1 km			2	1									
	Total	3	3	5	18	1		9	25	6	28	5	19	8

Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
	1 km-1.5 km						1				1	1		
	Total	3	3	5	18	1	1	9	25	6	30	6	19	10
	0-500 m											1		2
Slavonian Grebe	500 m-1 km											1		
	1 km-1.5 km													
	Total											2		2
Turnstone	0-500 m		4							13				
	500 m-1 km													
	Total		4							13				
Velvet Scoter	0-500 m	2	4		1					2	3	1	5	1
	500 m-1 km			1		10					1	4		
	Total	2	4	4	1	35				2	4	7	5	1
Auk sp.	0-500 m													
	500 m-1 km													
	Total													
	1 km-1.5 km											6		
	Total										50	6		
	Total										50	6		



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Cormorant	Total		10	1	5	1								20
	0-500 m	2	1	14	2	1	3	11	16	1	9	4	4	1
	500 m-1 km							3		1		2		
	1 km-1.5 km							1		1				
Curlew	Total	2	1	14	2	1	3	15	16	3	9	6	4	1
	0-500 m	1	15	3	1	1		4	4		2	12	2	3
	500 m-1 km				1									
	1 km-1.5 km				4									
Dunlin	Total	1	15	3	6	1		4	4		2	12	2	3
	0-500 m							1						
	500 m-1 km													
	1 km-1.5 km													
Eider	Total							1						
	0-500 m	74	57	21	49	46	186	151	39	43	14	9	5	41
	500 m-1 km		16	17	3	25	10	3		10	7	20	23	50
	1 km-1.5 km		5	39	13	12					2	44		
Gannet	Total	74	78	77	65	83	196	154	39	53	23	73	28	91
	0-500 m						8							





Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Guillemot	Total		1											
	0-500 m						6	1	25	10	5			
	500 m-1 km						9	2	50	12	4		1	
	1 km-1.5 km			1	1				50		4			
Herring Gull	Total			1	1		15	3	125	22	13		1	
	0-500 m	121	166	104	31	95	473	269	293	191	235	123	48	83
	500 m-1 km			6	6	16	13		2	2	6	8	46	11
	1 km-1.5 km			2	3	29	19		300		2	30	200	12
Kittiwake	Total	121	166	112	40	140	505	269	595	193	243	161	294	106
	0-500 m									1				
	500 m-1 km									2				
	1 km-1.5 km													
Knot	Total									3				
	0-500 m		10											
	500 m-1 km													
	1 km-1.5 km													
Total	Total		10											
	0-500 m						7	6	2					



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Puffin	Total	9	26	22	17	30	6	12	33	29	28	316	32	40
	0-500 m													
	500 m-1 km						3							
	1 km-1.5 km					2								
Purple sandpiper	Total					2	3							
	0-500 m		6									6		
	500 m-1 km													
	1 km-1.5 km													
Razorbill	Total		6									6		
	0-500 m	3		1		3			4		2			
	500 m-1 km					1	1		40		3			
	1 km-1.5 km			7					50					
Red-breasted Merganser	Total	3		8		4	1		94		5			
	0-500 m	3		2				4	6				9	1
	500 m-1 km			6				2						
	1 km-1.5 km													
	Total	3		8			6	6	6				9	1
	0-500 m										2			



Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
Shag	Total					4	4	16	18	21				
	0-500 m	1	1	2		1	2	10	26	7	7			1
	500 m-1 km			1						1	1	1		
	1 km-1.5 km			2										
Slavonian Grebe	Total	1	1	5		1	2	10	26	8	8	1		1
	0-500 m													2
	500 m-1 km										1			
	1 km-1.5 km													
Turnstone	Total										1			2
	0-500 m	6	21	7		2			8	66	6	53	31	10
	500 m-1 km													
	1 km-1.5 km													
Velvet Scoter	Total	6	21	7		2			8	66	6	53	31	10
	0-500 m	120	41	4								3	12	10
	500 m-1 km		16	1		28					2	6	2	1
	1 km-1.5 km		6	1										
Wigeon	Total	120	63	6		28					2	9	14	11
	0-500 m		6	5								7		

Species	Distance Zone	Jan'12	Feb'12	Mar'12	Apr'12	May'12	Jun'12	Jul'12	Aug'12	Sep'12	Oct'12	Nov'12	Dec'12	Jan'13
	500 m-1 km													
	1 km-1.5 km													
	Total		6	5								7		
Auk sp.	0-500 m													
	500 m-1 km									16				
	1 km-1.5 km									16				
	Total									32				