

1. Aggregated count totals for all three sites (Dabholme Gut, Bran Sands Lagoon and the River Frontage)

	Peak Counts					5-year average	WeBS 5-year average 2009 - 13	% Webs 5-year average
	2009*	2010*	2011*	2012*	2013*			
Mute Swan	13	7	30	4	2	11	85	12.9
Canada Goose	24	0	22	0	2	10	823	1.2
Shelduck*	212	177	195	144	153	176	451	39.0
Gadwall	26	58	47	61	29	49	407	12.0
Teal	230	494	465	454	435	416	1661	25.0
Mallard	48	58	136	43	54	68	304	22.4
Pochard	0	33	14	17	0	13	94	13.8
Tufted Duck	0	2	19	0	2	5	266	1.9
Scaup	0	3	0	0	0	1	2	50.0
Long-tailed Duck	0	0	0	0	2	1	2	50.0
Goldeneye	22	31	80	63	24	44	84	52.4
Red-breasted Merganser	9	16	75	25	43	34	64	53.1
Little Grebe	3	6	19	14	15	11	65	16.9
Great Crested Grebe	0	2	3	0	0	1	42	2.3
Cormorant	106	2	4	12	35	32	298	10.7
Grey Heron	0	0	4	4	22	6	44	13.6
Little Egret	0	0	0	0	11	2	30	6.7
Oystercatcher	12	11	12	14	13	14	1262	1.1
Lapwing	71	77	11	17	188	73	4218	1.7
Dunlin	0	6	24	0	5	7	767	0.9
Curlew	7	11	20	13	12	14	1195	1.2
Redshank*	73	228	146	110	258	163	1235	1.3
Turnstone	27	58	18	19	37	32	233	13.7
Common Tern **	0	34	0	0	23	57	509	11.2
Sandwich Tern	0	0	0	0	18	18	177	10.2
Total	883	1314	1344	1014	1383	1188		

Species in red are cited as part of the interest of the Special Protection Area

* Shelduck and redshank are cited as a part the interest for Seal Sands SSSI

** Common Tern are a species proposed as a part of the interest under the SPA review

Teesmouth and Cleveland Coast SPA is of European importance because:

It is used regularly by at least 1% of the GB population of a species listed in Annex 1 of the Birds Directive (79/409/EC) these species being **Little Tern** and **Sandwich Tern**.

It is also used regularly by 1% or more of the bio-geographical population of a regularly occurring migratory species (other than those listed in Annex 1) in any season, those species being **Knot** and **Redshank**.

It is used regularly by over 20,000 waterbirds (as defined by the Ramsar Convention) or 20,000 seabirds, in any season.

The site with the same boundaries is also recognised as a wetland of international importance under the Ramsar Convention meeting the convention criteria on the above species criteria.

Under the SPA review published in 2001 it was proposed that the site also met the qualifying criterion for **Ringed Plover**.

It is proposed that under the ongoing SPA review the site will meet qualifying criterion for **Common Tern**.

2. Use of the habitats on or adjacent to the development site by SPA and Ramsar citation species

Cited species	Average peak count	WeBS average peak count	% of WeBS average peak count
Redshank	163	1235	13.2
Sandwich tern	18	177	10.2
Common tern	57	509	11.2

Teesmouth and Cleveland Coast SPA meets the assemblage criterion by supporting greater than 20,000 waterfowl. At classification in 1995 the five year peak mean of the assemblage was 21,312. At revision in 2001 this figure was revised to 21,406. The Winter peak mean for the five years 08/09 -12/13 is 24,558

Average aggregated peak count for the development site 2009 - 2013	% of 20,000	% of 21,312	% of 21,406	% of 24,558
1188	5.94	5.57	5.55	4.84

The only species cited as an interest feature of the Teesmouth SSSIs which make up the Teesmouth and Cleveland Coast SPA and are found to be using the habitat on or adjacent to the development site are Redshank and Shelduck which are cited as part of the interest of Seal Sands SSSI.

None of the other species cited as interest of the SSSIs are found using the habitats on or adjacent to the development site.

3. Use of the habitats on or adjacent to the development site by SSSI citation species

Cited species	Average peak count	WeBS average peak count	% of WeBS average peak count
Redshank	163	1235	13.2
Shelduck	176	451	39.0

4. National BAP priority species

Lapwing is the only species found to be using the habitat on or adjacent to the development site.

5. Tees Valley BAP priority species

Shelduck is the only Tees Valley priority BAP species found to be using the habitat on or adjacent to the development site.

WATERBIRD DATA FOR 2008-2013 FOR BRAN SANDS LAGOON, DABHOLME GUT AND THE RIVER FRONTAGE

KEY TO SYMBOLS

sc - scattered cloud
f - fine
mc - mainly cloudy
sp - sunny spells
sh - showers
r - rain
h - hail
shc - scattered high cloud
ms - mainly sunny
c - cloudy
lsn - light snow
lsnc - light snow cover
oc - overcast
sn - snow
s - sun
ls - light sun
vis g - visibility good
vis m - visibility moderate
hu - humid
st - strong
gf - ground frost
cl - clear
lc - low cloud
w - warm
hc - high cloud
hm - high mist
hs - hazy sun
m - mild
bl - blustery
lmr - light moderate rain
lr - light rain
vc - very cloudy
hr - heavy rain
var - variable
snfl - snow flurries
hsh - heavy showers

Dabholme Gut 2008

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	CANADA GOOSE (CG) - ROOSTING	CURLEW (CU) - FEEDING	CURLEW (CU) - ROOSTING	DUNLIN (DN) - FEEDING	GADWALL (GA) - ROOSTING	GADWALL (GA) - FEEDING	GREY HERON (GH) - ROOSTING	KNOT (KN) - FEEDING	LAPWING (LU) - ROOSTING	LAPWING (LU) - FEEDING	MALLARD (MA) - ROOSTING	MALLARD (MA) - FEEDING	MOORHEN (MH) - ROOSTING	MOORHEN (MH) - FEEDING	MUTE SWAN (MS) - ROOSTING	MUTE SWAN (MS) - FEEDING	OYSTERCATCHER (OC) - FEEDING	REDSHANK (RS) - ROOSTING	REDSHANK (RS) - FEEDING	SHELDUCK (SU) - ROOSTING	SHELDUCK (SU) - FEEDING	TEAL (T) - ROOSTING	TEAL (T) - FEEDING	TURNSTONE (TT) - ROOSTING	TURNSTONE (TT) - FEEDING	
07.01.08	09:00-09:40						vis>10km	W4 7/8		2	1									24							106		17		240			
07.01.08	10:00-10:40							W5-6 6/8		3				2						4							144		88			12		
07.01.08	11:00-12:00									1																210				85				
07.01.08	12:00-13:00							W6 4/8												2						40								
07.01.08	13:00-14:00																													120				
07.01.08	14:00-15:00							W5-6 4/8					1																10					
17.01.08	10:15-11:15	10:19	4.4				vis 2-10km rsh	SE5 8/8					11														8	5	14	21	10			
17.01.08	11:15-12:15												5													87		3	37		10			
17.01.08	12:15-13:15						vis>10km hr	SE5 7/8-8/8		1			10	10						5	6			2		43	77	5	70	20				
17.01.08	13:15-14:15						r sh	SE5 8/8						15												111		37		153	5			
17.01.08	14:15-15:15						vis>10km	S4 6/8						2										2		122		18		278				
17.01.08	15:15-16:15					8	vis>10km	S4 7/8												2				2		96		19		135				
29.01.08	08:15-09:15	08:01	4.5				vis 10km	SW4 7/8					10											2		26		1		80	8			
29.01.08	09:15-10:15												10													26		2		28	8			
29.01.08	10:15-11:15												8													26		2		28	8			
29.01.08	11:15-12:15																									48	46	22	4		11			
29.01.08	12:15-13:15							SW 5/6		2				14							16				2	55		142		146				
29.01.08	13:15-14:15																				26				2	71		39		200	3			
29.01.08	14:15-15:15													2							4				2	62		35		274				
13.02.08	07:45-08:45					-2	vis 5km+	NE Calm 0/8					12														42			235	5			
13.02.08	08:45-09:45																									18	60		15	17	4			
13.02.08	09:45-10:45																									75		2		12		8		
13.02.08	10:45-11:45																										155				8	6		
13.02.08	11:45-12:45												3													145	2	4	8	35				
13.02.08	12:45-13:45									5																185		2		21				
28.02.08	07:45-08:45	?	?			6		SW2 5/8					8													25			18	24				
28.02.08	08:45-09:45								1				4													49			20		2			
28.02.08	09:45-10:45												2													19	71		12	2	28			
28.02.08	10:45-11:45																										107		6		274			
28.02.08	11:45-12:45																										123		13		263			
28.02.08	12:45-13:45									1																	127		23		259			
28.02.08	13:45-14:45									1																	162		5		235			
13.03.08	07:15-08:15	07:17	4.8				vis >10km	WSW3-4 3/8					10														51			20				
13.03.08	08:15-09:15												10														37		6		28			
13.03.08	09:15-10:15																										12	17	5		22			
13.03.08	10:15-11:15																											53		6		114		
13.03.08	11:15-12:15											1	4															88		17		96		
13.03.08	12:15-13:15																											81		58		100	4	
20.03.08	08:45-09:45						2km rain	NW3-4 8/8					1														7	2	24		117	2		
20.03.08	09:45-10:45																										3	1	11		13			
20.03.08	10:45-11:45																											7	12		95			
20.03.08	11:45-12:45																											1	1		7			
20.03.08	12:45-13:45												2																	6				
20.03.08	13:45-14:45																													8				
20.03.08	14:45-15:45						rain stopped																				4			1				
30.03.08	10:00-11:00	10:04	4	16:24	2.2		>10km	WS 6/8																				10			12			
30.03.08	11:00-12:00												2															10		1		12		
30.03.08	12:00-13:00																												2					
30.03.08	13:00-14:00							SW6 6/8																				6			4			
30.03.08	14:00-15:00																											6		6		9		
30.03.08	15:00-16:00																											1		37		22		
06.04.08	09:30-10:30	16:33	5.7	10:04	0.7	4	>10km snll	N3-4 5/8						6														19		84		17		
06.04.08	10:30-11:30																											61		39		20		
06.04.08	11:30-12:30							N5																				24	14		3		4	
06.04.08	12:30-13:30																											33	1	11		20		
06.04.08	13:30-14:30																												40	2	9	10		
06.04.08	14:30-15:30																														6			
06.04.08	15:30-16:30																														2			
21.04.08	10:00-11:00						>10km	E2 8/8																										
21.04.08	11:00-12:00																																	
21.04.08	12:00-13:00							E2 6/8																										
21.04.08	13:00-14:00																																	
21.04.08	14:00-15:00																																	
21.04.08	15:00-16:00																																	
21.04.08	16:00-17:00																																	
01.05.08	07:15		?	?				SW4 7/8																										
05.05.08	11:00-11:30			10:14	0.7		vis 1km mist	EO 8/8																										
15.05.08	08:00-08:30	07:24	2				>10km	NE2 7/8																										
30.06.08	08:15-09:00		?	?			vis good																											

Dabholme Gut 2009

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	CURLEW (CU) - FEEDING	CURLEW (CU) - ROOSTING	GADWALL (GA) - ROOSTING	GADWALL (GA) - FEEDING	LAPWING (L) - ROOSTING	LAPWING (L) - FEEDING	MALLARD (MA) - ROOSTING	MALLARD (MA) - FEEDING	MOORHEN (MH) - ROOSTING	MUTE SWAN (MS) - FEEDING	OYSTERCATCHER (OC) - ROOSTING	OYSTERCATCHER (OC) - FEEDING	REDSHANK (RS) - ROOSTING	REDSHANK (RS) - FEEDING	REDSHANK (RR) - ROOSTING	REDSHANK (RR) - FEEDING	SHELDUCK (SU) - ROOSTING	SHELDUCK (SU) - FEEDING	TEAL (T) - ROOSTING	TEAL (T) - FEEDING	TUFTED DUCK (TU) - ROOSTING	TURNSTONE (TT) - FEEDING
05.01.09	14:00-15:00			15.41	2.10		vis good	E2 7/8		1					2						3	76	3				11	29		
22.01.09	8.20			7.06	2.10		vis good	S5 8/8							12							66			1	13	22		11	
23.01.09	14.00	14.03	4.6				vis good	NW4 3/8																		6	7			
30.01.09	12.00			12.03	1.30		vis good	SW5 7/8			6				4							73		3		15	13		5	
10.02.09	15:15-16:15	16.12	5.7				vis good	NE4 4/8							8												5			
13.02.09	11.00			12.12	1.00		vis good	NW3 4/8		2		2				4				1		60			2	6		23	5	
26.02.09	10.30			10.34	1.00		vis good	W5 8/8	1			4			2	4						12			8	10			21	
11.03.09	15:00-16:00	15.51	5.7				vis 2	SW4-5 8/8							4												12			
16.03.09	12.30			12.47	1.30		vis 2	SW4 6/8								2						37				14	20	20	2	
26.03.09	08:00-09:00			9.34	1.00		vis 2	SW5-6 6/8				8				8	2					20			2	2	2			
09.04.09	09:30-10:30			9.29	0.90		vis 2	S4-5 5/8				4			1	13		2				1								
09.04.09	17.00	16.27	5.5				vis 2	S4-5 8/8							4						2				4		8			
27.04.09	11:00-12:00			10.58	0.70		vis 2 sh	SSW5 7/8-7/8							8										10					
07.05.09	14.45	14.24	5.1				vis 2	W6 3/8																						
21.05.09	8.30			8.56	1.70		var c sh	SW4							1										4					
03.06.09	13.00	13.14	4.7				vis good	NE4 4/8							6											4				
19.06.09	7.00			7.11	1.80		vis good	WNW6 5/8							8	3									4					
22.06.09	10:00-11:00			9.59	0.90		warm	SW2-3 7/8					12	35						1					4	6				
06.07.09	16.00	16.18	4.8				hsh var c	NW3																	1					
07.12.09	10 - 11.30	7.07	5.1			7	sp hc	SW 4								9						22					9			
17.12.09	09.30 - 10.45			10.02	1.40	4	sp vc	NW6	1							18		3			1	26						120		

Dabholme Gut 2010

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	COMMON SANDPIPER (CS) - FEEDING	COOT (CO)	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	DUNLIN (DN) - FEEDING	GADWALL (GA) - ROOSTING	GADWALL (GA) - FEEDING	GREY HERON (H) - FEEDING	LAPWING (L) - FEEDING	MALLARD (MA) - FEEDING	MOORHEN (MH) - FEEDING	MUTE SWAN (MS) - FEEDING	OYSTERCATCHER (OC) - FEEDING	REDSHANK (RK) - FEEDING	SHELDUCK (SU) - FEEDING	SNIFE (SN)	TEAL (T) - FEEDING	TURNSTONE (TT) - FEEDING	
08.01.10	11:00	09:33	4.6			0	s sn cover	Mod NE		1	2			6		34	16					30	16		129	11	
27.01.10	13:45	13:00	4.6			10	oc s	l mod W						6	6			1					2			73	
10.02.10	10:45	13:34	4.4			2	c s h slsh	E mod			1				12			38				115	61		189	25	
19.02.10	09:30	06:30	4.9			1	hc	L N-NE										31			4	91	35			173	
17.03.10	09:55			10.35	1.00	9	hc f	calm			2				14			29				12	67			159	
26.03.10	10:15	12:15	4.6			14	bc some s	v fresh SW							18			12		2		18	7			86	
08.04.10	11:40	12:03	4.1			14	bc, ms	calm							24			14				8	18			52	
16.04.10	09:50			11.41	0.90	9	shc s	calm			3				18			14				34	24			31	2
06.05.10	13:50			16.40	1.90	10	oc, bright	calm			2							12	1	6	2		12				
13.05.10	10:40			10.05	1.10	10	s	calm						1				6		8	3		16				
03.06.10	11:45			14.58	1.60	19	s	calm		1								11		7	1		12				
17.06.10	13:30			14.26	0.70	19	s	calm		2							8	24		33	2		32				
20.07.10	14:10	11:27	4.6			21	oc v w	calm	4		1	23					14	16		6	1	27	2				
26.07.10	13:00	17:09	5.0			19	w hu oc	calm	5		2	2						9		6		20	25				
07.08.10	13:00	14:11	4.7			16	f mc	calm	2								8	14		6	1	20	21				
11.08.10	11:00			11.34	0.20	18	moc s spells	mod W	1								4	22		6	1	17	23				
08.09.10	13:00	16:26	5.6			18	hc s	light E				2						15		5		21	16			22	
24.09.10	12:50	17:13	5.2			17	f s	calm				14						30				21	25			64	
04.10.10	13:30	13:34	4.8			17	ms	calm			3			2				4									
14.10.10	14:00			15.04	2.10	13	oc	calm			3							38				11	14			140	
01.11.10	11:30	10:57	4.5			9	s	calm										21		1		24	7			227	3
08.11.10	10:30			10.47	0.80	6	oc	NW Fresh			1			1				5	2	1		48				36	2
10.11.10	14:00	18:05	5.2	12.07	1.40	7	cl	calm			1							6			1	31	21			36	
07.12.10	10:00-11:30			10.30	1.10	-1	b snsh deep snow cover	calm			4	62	30			4		90		6		132	40	2		314	
13.12.10	14:15-15:00			14.38	2.30	4	b oc	still			2	6	37				4	18			2	44	15			221	56

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	COMMON TERN (CN) - FEEDING	COOT (CO)	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	GADWALL (GA) - FEEDING	GOLDENYE (GN) - FEEDING	GREAT CRISTED GREBE (GG) - FEEDING	GREY HERON (W) - FEEDING	GUILLEMOT (GU) - FEEDING	LAPWING (L) - FEEDING	LITTLE EGRET (ET)	LITTLE GREBE (LG) - FEEDING	MALLARD (MA) - FEEDING	MOORHEN (MH) - FEEDING	MUTE SWAN (MS) - FEEDING	POCHARD (PO) - FEEDING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RK) - FEEDING	SCALUP (SP) - FEEDING	SHELDUCK (SU) - FEEDING	TEAL (T) - FEEDING	TUFTED DUCK (TU) - FEEDING	TURNSTONE (TT) - FEEDING	WIGGON (WN) - FEEDING
08.01.10	11:00	09:33	4.6			0	s sn cover	Mod NE		1	1	2	6					34		16					30		16	129		11		
27.01.10	13:45	13:00	4.6			10	oc s	l mod W					3	13				37		37	3		33				101	154				
10.02.10	10:45	13:34	4.4			2	c s h slsh	E mod				1	1						2				3	1	1							
19.02.10	09:30	06:30	4.9			1	hc	L N-NE						9				24		7	1			7			2	6				
17.03.10	09:55			10.35	1.00	9	hc f	calm					1	9						1							42	4				
26.03.10	10:15	12:15	4.6			14	bc some s	v fresh SW						6						2				13			58					
08.04.10	11:40	12:03	4.1			14	bc, ms	calm				5												7	58		84					
16.04.10	09:50			11.41	0.90	9	shc s	calm												2					6		88					
06.05.10	13:50			16.40	1.90	10	oc, bright	calm			2											1		3		1	88					
13.05.10	10:40			10.05	1.10	10	s	calm	3																		104					
03.06.10	11:45			14.58	1.60	19	s	calm	6														1				3	57				
17.06.10	13:30			14.26	0.70	19	s	calm	17												1							63				
20.07.10	14:10	11:27	4.6			21	oc v w	calm	34		4							17				1						28				
26.07.10	13:00	17:09	5.0			19	w hu oc	calm	2							2												20				
07.08.10	13:00	14:11	4.7			16	f mc	calm		1					1						1					2	38					
11.08.10	11:00			11.34	0.20	18	moc s spells	mod W	3			1																23				
08.09.10	13:00	16:26	5.6			18	hc s	light E											6						4		30					
24.09.10	12:50	17:13	5.2			17	F s	calm						3							3							24				
04.10.10	13:30	13:34	4.8			17	ms	calm			7				2	4							1			86		7				
14.10.10	14:00			15.04	2.10	13	oc	calm						2									2	2	1		16	18				
01.11.10	11:30	10:57	4.5			9	s	calm						7	2				1	6	6		3		8	8	2	5				
08.11.10	10:30			10.47	0.80	6	oc	NW Fresh						27							7		3		16		5	8				
10.11.10	14:00	18:05	5.2	12.07	1.40	7	cl	calm						8	2					6			1		16		9	8				
07.12.10	10:00-11:30			10.30	1.10	-1	b snsh deep snow cover	calm				1		31							8		3	6		2	10	108				
13.12.10	14:15-15:00			14.38	2.30	4	b oc	still		8		1		17						6	3		2	12	2		3	176	6		2	

Dabholme Gut 2011

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	COOT (CO)	CORMORANT (CA) - ROOSTING	CURLEW (CU) - FEEDING	DUNLIN (DN) - FEEDING	GADWALL (GA) - ROOSTING	GADWALL (GA) - FEEDING	GREY HERON (H) - ROOSTING	LAPWING (L) - FEEDING	MALLARD (MA) - ROOSTING	MALLARD (MA) - FEEDING	MOORHEN (MH) - ROOSTING	MOORHEN (MH) - FEEDING	MUTE SWAN (MS) - FEEDING	OYSTERCATCHER (OC) - FEEDING	POCHARD (PO) - FEEDING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RSH) - ROOSTING	REDSHANK (RSH) - FEEDING	SHELDUCK (SU) - ROOSTING	SHELDUCK (SU) - FEEDING	TEAL (T) - ROOSTING	TEAL (T) - FEEDING	TUFTED DUCK (TU) - FEEDING	TURNSTONE (TT) - FEEDING	
06.01.11	0.55	16:50	5.4			3	oc	N 2	6			20		45			14						4			50		30		160	6	9	
18.01.11	0.49	14:29	5			5	s	0	6					24			20						1	5		96		3		137	3	2	
23.01.11	20.15 - 21.00			22.15	0.70		1 vis good 0/8	W 1						10			12									48		60		253			
09.02.11	0.60	19:18	4.8			10	b high cloud	0			1			13			16									25		35		256			
16.02.11	0.46	14:06	5			10	s	0	2		2			20			13					1		5		44		30		149		2	
03.03.11	10.30			9.05	1.40	2	oc	0			2			10		1	6									78		34		150			
09.03.11	13.00			12.04	1.20	8	oc sh	NW 5			1	4					14					1			74		53		50				
15.03.11	12.30	11.32	4.2			9	oc	0						3			5									11				10		3	
04.04.11	13.30			11.09	1.00	18	oc	NE 5						8			13						3			111		15			3		
12.04.11	14.00	10.42	4.2			14	oc	W 6			1						10				1					72		33		5			
25.07.11	15.00	11.43	4.2				vis good 6/8	N 4									9											3					
13.08.11	09.15 - 10.30			10.37	0.90						3						11										26						
25.08.11	13.00	13.31	4.4				vis good 4/8	S 3-4			2					8		2															
08.09.11	07.45 - 08.35			7.57	1.60		vis good 6/8	SW 4			6				4		2	6								26	6	13	10	103			
23.09.11	12.30	12.58	4.4				vis good 6/8	SSW 5							12				10								26		110				
07.10.11	08.15 - 09.30	7.33	1.6				vis good 6/8	W 4					2				6								3	66	7	49		163			
21.10.11	10.00 - 11.00	11.08	4.3				vis good 7/8	SSW 6									10	5								25	3		100	25		2	
07.11.11	07.55 - 09.00			7.30	1.50		vis good 5/8	NE 3			2						4									53		2	10	154			
18.11.11	08.40 - 09.40	8.30	4.5			12	vis good 7/8	S 5					2		6		4	12											14	44		1	
23.11.11	18.45 - 20.00			20.00	1.20		vis good 4/8	SW 5-6									10									57		25		290			
30.11.11	11.00 - 12.00			13.08	1.60		vis good 2/8	SW 5			4						64									105	9	42	80	180		3	
30.11.11	19.00	19.06	5.2				vis sat 6/8	SW 6									10									17				60			
11.12.11	14.15 - 15.00	16.00	5.2				vis good 7/8	SW 3-4							2													2		50			
22.12.11	14.00 - 14.55	13.20	5.0				vis good 6/8	W 5-6									2											4		170			
28.12.11	10.30 - 11.30			12.03	1.30		vis good 2/8	SW 6-7			2			2												82		83	15	110		1	

Bran Sands 2011

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	COOT (CO)	CORMORANT (CA) - ROOSTING	CORMORANT (CA) - FEEDING	CURLEW (CU) ROOSTING	CURLEW (CU) - FEEDING	GADWALL (GA) - FEEDING	GOLDENYE (GN) - ROOSTING	GOLDENYE (GN) - FEEDING	GREY HERON (H) - FEEDING	LAPWING (L) - FEEDING	LITTLE GREBE (LG) - FEEDING	MALLARD (MA) - ROOSTING	MALLARD (MA) - FEEDING	MUTE SWAN (MS) - ROOSTING	MUTE SWAN (MS) - FEEDING	POCHARD (PO) - ROOSTING	POCHARD (PO) - FEEDING	RED BREASTED MERGANSER (RM) - ROOSTING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RK) - FEEDING	SCAUP (SP) - ROOSTING	SHELDUCK (SU) - ROOSTING	SHELDUCK (SU) - FEEDING	TEAL (T) - FEEDING	TUFTED DUCK (TU) - FEEDING	TURNSTONE (TT) - FEEDING
06.01.11	0.55	16:50	5.4			3	oc	N 2							80					2				2						4				
18.01.11	0.49	14:29	5			5	s		2						10	1		4		3						11	1					10	6	
23.01.11	20:15 - 21:00			22.15	0.70	1	vis good 0/8	W 1														3								28	14			
09.02.11	0.60	19:18	4.8			10	b high cloud								14					2						13				13				
16.02.11	0.46	14:06	5			10	s					1			11					3						33	13			41	6			
03.03.11	10:30			9.05	1.40	2	oc					1			29				2		4				1		8	2			29	17	1	
09.03.11	13:00			12.04	1.20	8	oc sh	NW 5				1			40				1					2		20	3			5	2			
15.03.11	12:30	11:32	4.2			9	oc								19				2		1		1			17	30			52	80			
04.04.11	13:30			11.09	1.00	18	oc	NE 5				2			5						4		3		3		9	15			57	6		
12.04.11	14:00	10:42	4.2			14	oc	W 6												4						11	2			27				
25.07.11	15:00	11:43	4.2				vis good 6/8	N 4										12											16					
13.08.11	09:15 - 10:30			10.37	0.90					1	4	1						36			10							1		8				
25.08.11	13:00	13:31	4.4				vis good 4/8	S 3-4		1								6			6							15		12	11	20		7
08.09.11	07:45 - 08:35			7.57	1.60		vis good 6/8	SW 4													63								5	3	32			
23.09.11	12:30	12:58	4.4				vis good 6/8	SSW 5				1								52	20					1	15			3	42			2
07.10.11	08:15 - 09:30	7:33	1.6				vis good 6/8	W 4							1						34		1				1	3			1	10		
21.10.11	10:00 - 11:00	11:08	4.3				vis good 7/8	SSW 6		10	3	1	1		4				3	4	1	8	5			18	1	1	30	19				
07.11.11	07:55 - 09:00			7.30	1.50		vis good 5/8	NE 3							4	1				4	8		12		1		8	3			67			
18.11.11	08:40 - 09:40	8:30	4.5			12	vis good 7/8	S 5		4		1	2	9	12				1	3	7		11		8	3	7	4	9	11	185			
23.11.11	18:45 - 20:00			20.00	1.20		vis good 4/8	SW 5-6							6						12	9	3			6			4	8	25			
30.11.11	11:00 - 12:00			13.08	1.60		vis good 2/8	SW 5							34				9		10	7	7		4		22	2			5	3		
30.11.11	19:00	19:06	5.2				vis sat 6/8	SW 6							8						10		13							46	16			
11.12.11	14:15 - 15:00	16:00	5.2				vis good 7/8	SW 3-4							10				11		9	2	4			16	54	1		18	42			
22.12.11	14:00 - 14:55	13:20	5.0				vis good 6/8	W 5-6							2						4	2	10		8	24	2	2		3	1			
28.12.11	10:30 - 11:30			12.03	1.30		vis good 2/8	SW 6-7							10				3		3	6	5	1	25		3							

Frontage 2011

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	CORMORANT (CA) - ROOSTING	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	GREY HERON (H) - FEEDING	LAPWING (L) - FEEDING	OYSTERCATCHER (OC) - FEEDING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RK) - ROOSTING	REDSHANK (RK) - FEEDING	SHELDUCK (SU) - FEEDING	TEAL (T) - FEEDING	TURNSTONE (TT) - FEEDING
06.01.11	0.55	16:50	5.4			3	oc	N 2					4							
18.01.11	0.49	14:29	5			5	s	0												
23.01.11	20.15 - 21.00			22.15	0.70	1	vis good 0/8	W 1												
09.02.11	0.60	19:18	4.8			10	b high cloud	0		2										
16.02.11	0.46	14:06	5			10	s	0											4	
03.03.11	10.30			9.05	1.40	2	oc	0											6	
09.03.11	13.00			12.04	1.20	8	oc sh	NW 5									2			
15.03.11	12.30	11:32	4.2			9	oc	0											5	
04.04.11	13.30			11.09	1.00	18	oc	NE 5		1			1				4			
12.04.11	14.00	10:42	4.2			14	oc	W 6												
25.07.11	15.00	11:43	4.2				vis good 6/8	N 4												
13.08.11	09.15 - 10.30			10.37	0.90				1	3				7			45			
25.08.11	13.00	13:31	4.4				vis good 4/8	S 3-4												
08.09.11	07.45 - 08.35			7.57	1.60		vis good 6/8	SW 4	6	4	1			9						
23.09.11	12.30	12:58	4.4				vis good 6/8	SSW 5												
07.10.11	08.15 - 09.30	7:33	1.6				vis good 6/8	W 4						6						
21.10.11	10.00 - 11.00	11:08	4.3				vis good 7/8	SSW 6												
07.11.11	07.55 - 09.00			7.30	1.50		vis good 5/8	NE 3		1	1		3	6		4	3			2
18.11.11	08.40 - 09.40	8:30	4.5			12	vis good 7/8	S 5	4											
23.11.11	18.45 - 20.00			20.00	1.20		vis good 4/8	SW 5-6		1	4			4						
30.11.11	11.00 - 12.00			13.08	1.60		vis good 2/8	SW 5						1						
30.11.11	19.00	19:06	5.2				vis sat 6/8	SW 6												
11.12.11	14.15 - 15.00	16:00	5.2				vis good 7/8	SW 3-4												
22.12.11	14.00 - 14.55	13:20	5.0				vis good 6/8	W 5-6	10											
28.12.11	10.30 - 11.30			12.03	1.30		vis good 2/8	SW 6-7		2				9						

Dabholme Gut 2012

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	BAR TAILED GODWIT (BA) - FEEDING	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	GADWALL (GA) - ROOSTING	GADWALL (GA) - FEEDING	GREY HERON (H) - ROOSTING	GREY HERON (H) - FEEDING	LAPWING (L) - ROOSTING	MALLARD (MA) - ROOSTING	MALLARD (MA) - FEEDING	MOORHEN (MH) - ROOSTING	MOORHEN (MH) - FEEDING	OYSTERCATCHER (OC) - FEEDING	REDSHANK (RK) - ROOSTING	REDSHANK (RK) - FEEDING	RED-THROATED DIVER (RD) - FEEDING	SHELDUCK (SU) - ROOSTING	SHELDUCK (SU) - FEEDING	TEAL (T) - ROOSTING	TEAL (T) - FEEDING	TURNSTONE (TT) - ROOSTING	TURNSTONE (TT) - FEEDING	
16.01.12	08:00 - 08:55					2°	Vis good	SW 1 3/8				27					7									2		234			
27.01.12	12:00 - 13:15			12:12	1.23	8°	Vis good	W4-6/8			1	21					16						89			74		234			
30.01.12	19:45 - 20:35					3°	Vis good	E3 7/8									12						70					304			
02.03.12	10:00	00:14	4.04			9°		WSW 1/2 8/8				2																12			
17.03.12	10:00	12:23	4.3			9°	Sunny	Calm			2	14					29						12			67		159			
04.04.12	11:15	08:52	5.0			9°	Bright	NE Fresh	1			15					13		1	2			57			49		22		2	
18.04.12	12:15	14:58	4.9			9°	OC L SH	NW Light		1		8					10						18			32		17			
10.10.12	11:00	12:09	4.2			14°	Sunny	Calm			1				3											2		65		17	
07.11.12	12:40			15:13	2.40	13°	Sunny	Fresh NW			1	3					8				1						45		94		7
29.11.12	11:00			09:54	1.30	6°	f ms	Calm			1																5		58		15
11.12.12	12:30	13:52	5.2			4	Sunny, scatte	Light NE				11		1			27					78					126		6		
13.12.12	10:30	9:18	0.8			-3	Sunny with f	Calm				48		1		17	30		2			42			10		422		2		

Bran Sands 2012

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	GADWALL (GA) - FEEDING	GOLDENEYE (GN) - FEEDING	GREY HERON (H) - FEEDING	KINGFISHER (KF) - FEEDING	LITTLE GREBE (LG) - FEEDING	MALLARD (MA) - FEEDING	MUTE SWAN (MS) - FEEDING	POCHARD (PO) - FEEDING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RK) - FEEDING	SHELDUCK (SU) - FEEDING	TEAL (T) - FEEDING	TURNSTONE (TT) - FEEDING
16.01.12	08:00 - 08:55	8.34	4.7			2°	Vis good	SW 1 3/8		2		63			4	2	3	17	15	1	20	16	
27.01.12	12:00 - 13:15			12.12	1.20	8°	Vis good	W4-6/8		1		19				10	2		8		6	10	
30.01.12	19:45 - 20:35	20.14	4.6			3°	Vis good	E3 7/8				35				12	2		3		47	32	
02.03.12	10.00	10.01	4.00			9°		SW 1/2 8/8		8	13	17				2			17	3	68		
17.03.12	10.00	12.23	4.3			9°	Sunny	Calm			1	9				1					42	4	
10.10.12	11.00	12.09	4.2			14°	Sunny	Calm	1	1						1	4		4		4		
07.11.2012	12.40			15.13	2.40	13°	Sunny	NW 5	7	1		5				3			25			2	1
29.11.12	11.00			9.54	1.30	6°	f ms	Calm		1	12	10	1			13	2		16		3	4	
11.12.12	12.45	13.52	5.2			4	Sunny, scattered cloud	Light NE			4	10		1	9				20	1	27	1	
13.12.12	10.45			9.18	0.80	-3	Sunny with fog patches	calm			8	22			14	1		3	4	2	20		

Dabholme Gut 2013

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	CANADA GOOSE (CG) - FEEDING	COMMON TERN (CN) - ROOSTING	COMMON TERN (CN) - FEEDING	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	DUNLIN (DN) - FEEDING	GADWALL (GA) - FEEDING	GREY HERON (H) - FEEDING	LAPWING (L) - FEEDING	LITTLE EGRET (ET)	MALLARD (MA) - FEEDING	MOORHEN (MH) - ROOSTING	MOORHEN (MH) - FEEDING	OYSTERCATCHER (OC) - FEEDING	REDSHANK (RK) - FEEDING	SHELDUCK (SU) - FEEDING	TEAL (T) - FEEDING	TUFTED DUCK (TU) - FEEDING	TURNSTONE (TT) - FEEDING
03.01.2013	12.30			13.09	1.60	13	c	SW 4					2		9				38		1		71	27	210		
09.01.2013	12.45	13.14	5.0			7	fs	SW 3					1		7				18					2	227		
30.01.2013	11.45			11.34	1.10	10	s	NW 6					2		26				20				96	65	198		1
13.02.2013	12.30			11.44	0.80	3	s	NW 5					3		15				18			1	156	63	156		
28.02.2013	13.45			11.14	0.90	6	sc sp	0	1						9				5				23	6	124		20
08.03.2013	10.30	12.51	4.7			6	oc lr	0	2			1			11							1	6	9	66		2
26.03.2013	12.30	15.00	5.2			4	oc	SW 5					1		12				8		1		4	10	134		
03.04.2013	10.40	9.38	4.6			7	s	E 3					1		6				3				9	24	111		13
17.04.2013	13.00			14.36	1.80	16	hc hs	SW 5					2		8				13				63	66	37		
01.05.2013	11.45			13.53	1.00	14	s	SW 3					1		4				5				11	61	4	2	
16.05.2013	11.30			15.34	1.60	14	f cl	SW 2		2			1		1							1		384			
12.06.2013	10.45			12.54	1.10	19	sc sp	SW 2		1									7						21		
02.07.2013	11.00	11.48	4.5			19	c lr	SW 2									35		14						29		
25.07.2013	10.00			12.38	0.20	23	s	SW 2					1				32					1	2	8	12		
08.08.2013	12.00			12.12	0.90	23	s	0		1		3	1				12		5				1	41			
13.08.2013	12.30			14.46	1.30	19	ms	SW 2					2				26		3				5	1	1		1
05.09.2013	11.45			10.40	0.90	22	s	0		1							38		3				9	16	14		2
23.09.2013	11.30			14.04	1.70	15	oc lr	E 1								7	11		24			1	13	20	85		6
01.10.2013	13.00	14.20	4.6			16	oc sp	W 5						5	5	68		1		2			5	1	46		4
08.10.2013	9.45			12.34	0.80	18	s	W 5				3	3			9	2	2	1				25	45	131		2
09.10.2013	9.45	6.53	5.4			13	sc sp	NW 4					3			11			14				18	19	96		1
22.10.2013	12.50			11.25	1.20	15	oc	W 6							1				14				49	48	189		
07.11.2013	13.00			12.01	1.00	10	s	W 6											12				67	24	241		
12.11.2013	11.00	11.19	4.6			10	s	W 5				1				8			19				95		116		
19.11.2013	12.45			10.28	1.20	4	s	N 3					1			1			27				42	28	218		
26.11.2013	12.10	9.27	4.3			6	s	0							2								66	14	138		
03.12.2013	12.00			9.34	0.80	6	oc	W 2								5			15				124	7	190		8
10.12.2013	12.30	9.33	4.7			10	hc ms	NW 5							7				7				95	74	171		2

Bran Sands 2013

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	COMMON TERN (CN) - ROOSTING	COOT (CO)	CORMORANT (CA) - FEEDING	CURLEW (CU) - FEEDING	CURLEW (CU) - ROOSTING	GADWALL (GA) - FEEDING	GOLDENEYE (GN) - FEEDING	GREY HERON (RH) - FEEDING	LAPWING (U) - ROOSTING	LAPWING (U) - FEEDING	LITTLE EGRET (ET)	LITTLE GREBE (LG) - FEEDING	LONG TAILED DUCK (LN) - FEEDING	MALLARD (MA) - FEEDING	MOORHEN (MH) - FEEDING	MUTE SWAN (MS) - FEEDING	OYSTERCATCHER (OC) - ROOSTING	OYSTERCATCHER (OC) - FEEDING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RW) - FEEDING	SANDWICH TERN (TE)	SHELDICK (SU) - FEEDING	TEAL (T) - FEEDING	TURNSTONE (TT) - FEEDING
03.01.2013	12.30			13.09	1.60	13	c	SW 4							5				3			9						10		27		
09.01.2013	12.45	13.14	5.0			7	fs	SW 3			3			1	3	1		30		7	2						4	4	28	25		
30.01.2013	11.45			11.34	1.10	10	s	NW 6							5												20		2	1		
13.02.2013	12.30			11.44	0.80	3	s	NW 5							16							1			1				13			
28.02.2013	13.45			11.14	0.90	6	sc sp	0			1				24					1		8					21	4	68	2		
08.03.2013	10.30	12.51	4.7			6	oc lr	0							1		4			2		6					13	14	37	5	2	
26.03.2013	12.30	15.00	5.2			4	oc	SW 5		1		2		3	5					7		8					14	3	73	29		
03.04.2013	10.40	9.38	4.6			7	s	E 3			2			1	12												9	43	20			
17.04.2013	13.00			14.36	1.80	16	hc hs	SW 5	3					1						3		1				2	11	3	20			
01.05.2013	11.45			13.53	1.00	14	s	SW 3			1															2				17		
16.05.2013	11.30			15.34	1.60	14	f cl	SW 2	11		1											2							26			
12.06.2013	10.45			12.54	1.10	19	sc sp	SW 2	19															2					4			
02.07.2013	11.00	11.48	4.5			19	c lr	SW 2			1																		18	3		
25.07.2013	10.00			12.38	0.20	23	s	SW 2	4				1					8											2			
08.08.2013	12.00			12.12	0.90	23	s	0																					8			
13.08.2013	12.30			14.46	1.30	19	ms	SW 2	2																	2						
05.09.2013	11.45			10.40	0.90	22	s	0			2						17					2						3	10	2		
23.09.2013	11.30			14.04	1.70	15	oc lr	E 1			9					4							1	1				3				
01.10.2013	13.00	14.20	4.6			16	oc sp	W 5			1							9		7			1				5	12	25	41		
08.10.2013	9.45			12.34	0.80	18	s	W 5			1	1								4							14	1				
09.10.2013	9.45	6.53	5.4			13	sc sp	NW 4														2					154			2		
22.10.2013	12.50			11.25	1.20	15	oc	W 6			1				6				11			4		2			2	1		94		
07.11.2013	13.00			12.01	1.00	10	s	W 6			1									7							17	1	1	29		
12.11.2013	11.00	11.19	4.6			10	s	W 5			1				15					9							25	1	3	4		
19.11.2013	12.45			10.28	1.20	4	s	N 3							10					2	15						15	2	14	10		
26.11.2013	12.10	9.27	4.3			6	s	0							17	1						9					43	8	12	100		
03.12.2013	12.00			9.34	0.80	6	oc	W 2			10				18			21	3	12		16					20	99	18	125	7	
10.12.2013	12.30	9.33	4.7			10	hc ms	NW 5							15					1							16	3	54	72		

Frontage 2013

DATE	TIME	HIGH TIDE	HEIGHT - m	LOW TIDE	HEIGHT - m	TEMP °C	WEATHER	WIND	COMMON SANDPIPER (CS) - ROOSTING	COMMON TERN (CN) - ROOSTING	COMMON TERN (CN) - FEEDING	COOT (CO)	CORMORANT (CA) - ROOSTING	CURLEW (CU) - FEEDING	EIDER (E) - FEEDING	GREY HERON (H) - ROOSTING	LAPWING (L) - ROOSTING	LAPWING (L) - FEEDING	OYSTERCATCHER (OC) - FEEDING	RED BREASTED MERGANSER (RM) - FEEDING	REDSHANK (RK) - FEEDING	SHELDUCK (SU) - FEEDING	TEAL (T) - FEEDING	TURNSTONE (TT) - FEEDING
03.01.2013	12.30			13.09	1.60	13	c	SW 4																
09.01.2013	12.45	13.14	5.0			7	fs	SW 3					17											
30.01.2013	11.45			11.34	1.10	10	s	NW 6																
13.02.2013	12.30			11.44	0.80	3	s	NW 5																
28.02.2013	13.45			11.14	0.90	6	sc sp	0					61		1									
08.03.2013	10.30	12.51	4.7			6	oc lr	0					2											
26.03.2013	12.30	15.00	5.2			4	oc	SW 5						2					6			6		
03.04.2013	10.40	9.38	4.6			7	s	E 3												2				
17.04.2013	13.00			14.36	1.80	16	hc hs	SW 5	1				2						2		1			
01.05.2013	11.45			13.53	1.00	14	s	SW 3																
16.05.2013	11.30			15.34	1.60	14	f cl	SW 2		3			6						3					
12.06.2013	10.45			12.54	1.10	19	sc sp	SW 2																
02.07.2013	11.00	11.48	4.5			19	c lr	SW 2		4			5											
25.07.2013	10.00			12.38	0.20	23	s	SW 2					7						2					
08.08.2013	12.00			12.12	0.90	23	s	0					6	1		1			5			1		
13.08.2013	12.30			14.46	1.30	19	ms	SW 2		3			5											
05.09.2013	11.45			10.40	0.90	22	s	0					5	3		2		1	11		3			
23.09.2013	11.30			14.04	1.70	15	oc lr	E 1					17	3		7			4					
01.10.2013	13.00	14.20	4.6			16	oc sp	W 5					30				80		2					
08.10.2013	9.45			12.34	0.80	18	s	W 5					10	1				2	3					
09.10.2013	9.45	6.53	5.4			13	sc sp	NW 4					3											1
22.10.2013	12.50			11.25	1.20	15	oc	W 6					14	6			90		6					10
07.11.2013	13.00			12.01	1.00	10	s	W 6					1	2					5			6	9	
12.11.2013	11.00	11.19	4.6			10	s	W 5					5											
19.11.2013	12.45			10.28	1.20	4	s	N 3					36		1				2					1
26.11.2013	12.10	9.27	4.3			6	s	0					22											1
03.12.2013	12.00			9.34	0.80	6	oc	W 2					14		1				1					
10.12.2013	12.30	9.33	4.7			10	hc ms	NW 5					7						1					