

**Hunterston
Wintering Bird Survey 2023/24**



March 2024

CONTROL SHEET

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EXECUTIVE SUMMARY

EnviroCentre Ltd was commissioned by Peel Ports Group Ltd to undertake Wintering Bird Surveys at Southannan Sands, Hunterston Sands, and Fairlie Sands. Previous equivalent surveys at this site were conducted over the winters of 2012/13, 2013/14, 2014/15, and 2015/16.

A total of 39 species were recorded during the Wintering Bird Surveys.

Of the waders recorded, Oystercatcher, Curlew, Redshank, and Dunlin were the most numerous species encountered, with smaller numbers of Greenshank, Ringed Plover, Bar-tailed Godwit and Knot.

Wigeon was by far the most numerous waterfowl species recorded, with smaller numbers of Teal, Greylag Goose, Shelduck, Eider, Mallard, Mute Swan, and Red-breasted Merganser.

Of the three areas surveyed:

- Southannan Sands continues to support the largest concentrations of wader and waterfowl species. With large numbers of Oystercatcher, Curlew, Wigeon, Redshank, and Shelduck regularly present feeding and roosting, with particular note being made of the high concentrations of roosting birds within the artificial lagoon.
- Hunterston Sands supports the highest concentrations of Dunlin and Ringed Plover over the survey area.

All three survey areas provide roosting habitat for Oystercatcher, Curlew, and Redshank, with the north-east corner of Southannan Sands and the artificial lagoon supporting the highest concentrations, with regular counts of up to 300, 200, and 100 birds respectively, with further roosting provisions for Dunlin, Bar-tailed Godwit, and Greenshank in smaller concentrations.

The results of the surveys indicate that the active ground works taking place at the marine yard have not resulted in significant changes in site use by any species of bird present or caused the abandonment of any traditional roost sites. Further annual wintering bird surveys are recommended at the site throughout the duration of the works and post-construction to maintain the ecological baseline and inform appropriate avoidance, mitigation, and licensing where necessary.

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1 INTRODUCTION

1.1 Terms of Reference

EnviroCentre Ltd was commissioned by Peel Ports Group Ltd to undertake wintering bird surveys at Southannan Sands, Hunterston Sands and Fairlie Sands. Previous equivalent surveys at these same sites were last conducted by EnviroCentre Ltd over the winters between 2012 to 2016.

One survey visit comprising three tide counts was conducted at each site every month between October 2023 to March 2024.

1.2 Scope of Report

This report sets out the following:

- The methodology employed;
- The results of the surveys; *and*
- Analysis of the findings including patterns of site usage by species identified over the course of the surveys.

1.3 Site Description and Designations

The site is situated on the west coast of North Ayrshire, on the shoreline of the Firth of Clyde and adjacent to the village of Fairlie, centred at Ordnance Survey Grid Reference (OSGR) NS 20133 53429.

The site is comprised of a partially operational port, largely dominated by derelict previously developed land with sparse grassland and scrub vegetation, as well as boundary woodland, with associated port buildings and infrastructure. A number of artificial waterbodies are present across the site, the largest of which comprises an isolated lagoon at the north of the site.

Surrounding these developed areas are three large sandflats and associated coastal habitat, comprising Hunterston Sands in the south-west corner; Southannan Sands at the centre, and Fairlie Sands at the north-east corner. These extensive sandflats are collectively designated as the nationally-important Southannan Sands Site of Special Scientific Interest (SSSI), and are designated as such for marine sandflat habitat.

More widely, the site is surrounded farmland, plantation woodland, and heathland habitats to the east, as well as the village of Fairlie and associated connecting transport routes, with the Firth of Clyde to the west.

1.4 Project Description

The proposed development is to upgrade HCY into a harbour facility with a large working platform to support the needs of future tenants, with a focus on facilitating the construction and/or integration of offshore wind components.

On the marine side, it will comprise a quay wall for the safe mooring of vessels and the loading / offloading of cargoes and materials (e.g., offshore wind components), and a deepened seabed for the

safe navigation and manoeuvring of vessels to and from the quay wall. The quay wall will comprise a piled, tied and filled cofferdam structure topped with a concrete slab deck and finished with mooring bollards, fenders, ladders, utility provisions, and aids to navigation. The deepened seabed will comprise a dredged area where the bathymetry is lowered to approximately 12m below Chart Datum to provide sufficient water depth for navigation and berthing.

On the land side, the working platform will comprise approximately 40 hectares of compacted and levelled land situated behind the quay wall (including an area where the existing dry dock is infilled), utility provisions including a substation, and perimeter fencing, access, CCTV and lighting.

1.5 Report Usage

The information and recommendations contained within this report have been prepared in the specific context stated above and should not be utilised in any other context without prior written permission from EnviroCentre Limited.

If this report is to be submitted for regulatory approval more than 12 months following the report date, it is recommended that it is referred to EnviroCentre Limited for review to ensure that any relevant changes in data, best practice, guidance or legislation in the intervening period are integrated into an updated version of the report.

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2 METHODOLOGY

2.1 Wintering Bird Surveys

The survey areas covered the respective boundaries of the Southannan Sands SSSI, which comprises Southannan Sands, Hunterston Sands, and Fairlie Sands.

Each of the three sites was surveyed once each month (with the exception of two survey visits in November 2023), from early November 2023 to late March 2024, with three counts conducted per visit across the tidal cycles, for a total of 54 counts. The dates pertaining to each survey are stated in the respective results tables within Appendix A.

In order for the distribution of birds present at each site to be documented, the maps for each of the three sites were split into 200m x 200m cells and the location of each bird present assigned to a particular cell. By this doing this, comparisons of species distributions and patterns of site usage can be assessed, in order to assist with analysis of any disturbance impacts.

All waterfowl, waders, and gull species were recorded, as well as any notable species deemed relevant to the site.

Two different surveyors were utilised during the survey period: Principal Consultant Ecologist Matthew Sullivan (ACIEEM) and Consultant Ecologist Billy Brook (QCIEEM).

3 RESULTS

3.1 Baseline Surveys

A total of 41 species were recorded during the wintering bird survey. Table 3.1 details the peak numbers recorded at each area.

The main species using the inter-tidal habitat were waders – predominately Oystercatcher (*Haematopus ostralegus*) and Curlew (*Numenius arquata*), with smaller numbers of Redshank (*Tringa totanus*), Dunlin (*Calidris alpina*), Bar-Tailed Godwit (*Limosa lapponica*) and Ringed Plover (*Charadrius hiaticula*). Waterfowl were also common – predominately Shelduck (*Tadorna tadorna*), Greylag Goose (*Anser anser*) and Wigeon (*Anas Penelope*), with smaller numbers of Mallard (*Anas platyrhynchos*), Teal (*Anas crecca*), and Mute Swan (*Cygnus olor*). Large numbers of gulls were also consistently recorded, primarily including Common Gull (*Larus canus*) and Black-headed Gull (*Chroicocephalus ridibundus*).

3.2 Peak Counts

Peak counts were determined for the focus species utilising the three sites over the course of wintering season – detailed in Table 3-1.

Table 3-1: Peak Counts of Main Species, 2023/24 Survey

Species		Southannan Sands		Hunterston Sands		Fairlie Sands	
Scientific name	Common name	Peak	Date	Peak	Date	Peak	Date
<i>Anser brachyrhynchis</i>	Pink-footed Goose	-	-	36	10/11/23	-	-
<i>Anas crecca</i>	Teal	288	28/11/23	350	19/12/23	47	31/01/24
<i>Anas penelope</i>	Wigeon	778	06/11/24	733	10/11/23	91	28/02/24
<i>Anas platyrhynchos</i>	Mallard	27	18/12/23	46	10/11/23	12	20/12/23
<i>Anas strepara</i>	Gadwall	2	29/01/24	-	-	-	-
<i>Anser anser</i>	Greylag Goose	98	29/01/24	350	27/02/24	-	-
<i>Ardea cinerea</i>	Grey Heron	37	28/11/23	1	Various	1	Various
<i>Branta canadensis</i>	Canada Goose	20	29/01/24	83	10/11/23	-	-
<i>Bucephala clangula</i>	Goldeneye	7	18/12/23	-	-	2	Various
<i>Calidris alpina</i>	Dunlin	286	28/11/23	94	29/11/23	-	-
<i>Calidris canutus</i>	Knot	-	-	18	10/11/23	-	-
<i>Charadrius hiaticula</i>	Ringed Plover	6	26/02/24	126	19/12/23	-	-

Species		Southannan Sands		Hunterston Sands		Fairlie Sands	
Scientific name	Common name	Peak	Date	Peak	Date	Peak	Date
<i>Chroicocephalus ridibundus</i>	Black-headed Gull	58	18/03/24	18	29/11/23	9	20/03/24
<i>Cygnus olor</i>	Mute Swan	49	28/11/23	-	-	3	20/03/24
<i>Egretta garzetta</i>	Little Egret	2	26/02/24	1	Various	1	Various
<i>Gavia stellata</i>	Red-throated Diver	-	-	2	19/03/24	-	-
<i>Haematopus ostralegus</i>	Oystercatcher	449	18/12/23	220	29/11/23	91	31/01/24
<i>Larus argentatus</i>	Herring Gull	31	26/02/24	17	30/01/24	5	31/01/24
<i>Larus canus</i>	Common Gull	290	18/12/23	52	19/12/23	8	31/01/24
<i>Larus fuscus</i>	Lesser Black-backed gull	37	18/03/24	4	19/03/24	2	20/02/24
<i>Larus marinus</i>	Great Black-backed Gull	3	29/01/23	3	30/01/24	2	20/12/23
<i>Limosa lapponica</i>	Bar-tailed Godwit	71	26/02/24	4	19/12/23	50	31/01/24
<i>Limosa limosa</i>	Black-tailed Godwit	1	29/01/24	-	-	2	31/01/24
<i>Mergus merganser</i>	Goosander	4	28/11/23	6	29/11/23	-	-
<i>Mergus serrator</i>	Red-breasted Merganser	10	29/01/24	3	30/01/24	6	20/03/24
<i>Numenius arquata</i>	Curlew	328	26/02/24	50	30/01/24	15	31/01/24
<i>Phalacrocorax aristotelis</i>	Shag	-	-	-	-	3	20/03/24
<i>Phalacrocorax carbo</i>	Cormorant	2	26/02/24	3	30/01/24	-	-
<i>Somateria mollissima</i>	Eider	-	-	6	27/02/24	143	20/03/24
<i>Tachybaptus ruficollis</i>	Little Grebe	12	28/11/23	-	-	-	-
<i>Tadorna tadorna</i>	Shelduck	70	26/02/24	32	10/11/23	2	28/02/24
<i>Tringa nebularia</i>	Greenshank	13	28/11/23	-	-	2	20/12/23
<i>Tringa totanus</i>	Redshank	191	26/02/24	99	29/11/23	12	31/01/24
<i>Vanellus vanellus</i>	Lapwing	10	28/11/23	-	-	-	-

4 DISCUSSION

4.1 Site Usage by Birds

4.1.1 High Tide Wader Roosts

During high tide, several roost sites were identified for wading species, which are detailed below:

Oystercatcher – As in previous surveys, the main roost site for this species continues to be on the sand bar at the north-eastern edge of Southannan Sands. This roost regularly consisted of up to 200 birds. An equivalent sized roost, not identified in previous surveys, was also noted along the north-western bank of the artificial lagoon. Further smaller, but significant, roosts were recorded at Inner Brigurd Point on Hunterston Sands; as well as on Black Rock and the small outcrop to the west of Gull's Walk on Southannan Sands.

Curlew – As in previous surveys, the main roost site for this species was on Black Rock on the eastern edge of Southannan Sands, regularly comprising up to 150 birds, with a peak roost count of 328 recorded on 26/02/24. Further smaller roosts were recorded at Inner Brigurd Point on Hunterston Sands, and on Dorothy's Island within the artificial lagoon.

Redshank – Differing from previous surveys, the main roost site for this species was recorded along the north-western bank of the artificial lagoon, roosting alongside Oystercatcher and regularly comprising up to 100 birds. Smaller roosts were also noted at Southannan Sands along the boulder tide barrier in C56.

Dunlin – Dunlin numbers were consistently above 50 birds throughout the surveys, with a peak count of 286 recorded roosting at Southannan Sands on 28/11/23. The main roost site for this species was also along the north-western bank of the artificial lagoon, alongside Oystercatcher and Redshank.

Greenshank – A peak of 13 birds were recorded roosting at the north-western edge of the artificial lagoon on 28/11/2023, alongside Redshank, Dunlin, and Oystercatcher. This number is consistent with surveys from previous years.

Bar-tailed Godwit – Numbers of Bar-tailed Godwit were inconsistent over the course of the survey, typically comprising small groups of a few individuals; however, a peak count of 71 birds was recorded on 26/02/24, wherein birds were roosting on the north-western edge of the artificial lagoon alongside Oystercatcher, Redshank, Dunlin, and Greenshank.

The results of the survey indicate that the artificial lagoon has become an increasingly favoured roost site for a number of main species present on-site, with higher numbers in particular recorded here in periods of high winds when other traditional roost sites are more exposed.

4.1.2 Low Tide Wader Site Usage

The largest numbers of Oystercatcher were regularly recorded at Southannan Sands, with a peak of 449 birds on 18/12/23. At low tide, the mussel bed at Southannan is a favoured feeding site for this species, with smaller numbers extending onto Hunterston and Fairlie Sands for wider foraging opportunities. Overall, the numbers of Oystercatcher have fallen since the last survey in 2015/16, where a peak count of 620 birds was recorded.

Southannan further supports the largest numbers of Curlew, with a peak of 328 birds on the 26/02/24, in which numbers are maintained from high to low tide where birds forage widely across the sandflats. Much lower peak counts were recorded at Hunterston and Fairlie Sands in comparison.

Outside of the main roosting site for Dunlin in the artificial lagoon, Hunterston Sands was the favoured feeding site of this species, as well as for Ringed Plover, which were rarely recorded at Southannan Sands, with no records of either species at Fairlie Sands.

As stated, Bar-tailed Godwit were only recorded foraging in low numbers outside of the main roost site at the artificial lagoon, with a notable group of 50 foraging birds recorded at Fairlie Sands on 31/01/24.

Redshank were recorded foraging throughout all three sites, with Southannan Sands supporting the largest numbers. A peak of 191 birds on 26/02/24 was recorded at Southannan Sands, primarily comprising the roosting birds at the artificial lagoon, with significant numbers foraging across the sandflats at low tide. With this foraging behaviour recorded at Hunterston Sands, where a peak of 99 birds on 29/11/23 was noted.

4.1.3 Waterfowl Site Usage

During high tide, the majority of wildfowl, in particular Wigeon, were noted within the artificial lagoon, where a peak count of 778 Wigeon was recorded on 10/11/23, which is the highest count of any one bird species present on site. Other significant activity hotspots for wildfowl were noted around Gull's Walk on Southannan Sands.

Wigeon – As stated, this species is the most numerous recorded on-site, with this species roosting and loafing in significant numbers within the artificial lagoon. However, the peak count for this species represents a reversal in trend of significant increases recorded for this species over previous surveys, with a peak count of 1193 recorded on 26/01/16.

Teal – The peak count of 350 birds associated with Hunterston Sands, recorded on 19/12/23, was actually recorded within an artificial waterbody within the marine yard at NS 18611 53061, which was being actively emptied at the time of the site visit, and has since been completely dried out. The other significant count of 288 on 28/11/23 was noted along Gull's Walk within Southannan Sands. These figures represent a significant increase on previous surveys, with the most recent peak count being 186 on 07/10/15.

Shelduck – Consistent with previous surveys, this species was noted roosting and loafing on the water at Gull's Walk in Southannan Sands, as well as surrounding Inner Brigurd Point on Hunterston Sands. The peak counts of 70 birds on 26/02/24 and 32 birds on 10/11/23 for these sites respectively, are consistent with previous surveys.

Mallard – In contrast to previous surveys, significantly lower numbers of Mallard were recorded during the 2023/24 survey, with a peak count of 46 birds recorded at Hunterston Sands on 10/11/23, in comparison to a peak count of 171 at Southannan Sands on 22/09/15. This species was present in small groups loafing and feeding at the sandflat margins, predominantly along Gull's Walk.

Eider – This species was consistently recorded in very low numbers at the low tide extent of Hunterston and Fairlie Sands; however, a peak count of 143 birds was recorded on 20/03/24, comprising a large group that entered the survey area before moving into deeper waters.

Red-breasted Merganser – This species was regularly present in low numbers within the artificial lagoon as well as foraging at the water's edge during mid to high tide across all three sites, with a peak count of 10 birds recorded at Southannan Sands on the 29/01/24.

Mute Swan – Regularly present on the artificial lagoon with a peak count of 49 birds on 28/11/23, with only low numbers recorded at Fairlie Sands in contrast to previous surveys.

Greylag Goose – A species that was inconsistently recorded within or surrounding Southannan and Hunterston Sands, typically comprising large flocks with a peak count of 350 birds recorded on 27/02/24 within the adjacent to the south of Inner Brigurd Point.

Pink-footed Goose – Only recorded on one survey visit (10/11/23) with a flock of 36 birds present at Inner Burgund Point at Hunterston Sands.

4.1.4 Gull Site Usage

Five species of Gull were recorded at each of Southannan Sands, Hunterston Sands and Fairlie Sands - Black headed Gull, Common Gull, Herring Gull, Great Black backed Gull and Lesser Black backed Gull. With the most frequent species being Common Gull, with a peak count of 290 birds recorded on 18/12/23 on Southannan Sands.

4.1.5 Raptor Site Usage

Five species of raptor were recorded at Southannan and Hunterston Sands, including Kestrel (*Falco tinnunculus*), Peregrine (*Falco peregrinus*), Buzzard (*Buteo buteo*), <Redacted> and <Redacted>

The first four species were noted as hunting within the scrubland surrounding the sandflats; however, a juvenile <Redacted> maintained an active wintering roost on-site at the boundary of the marine yard throughout November and December, with multiple direct sightings noted during the site visits as well as old kill sites being present surrounding the roost site. Based on the absence of recent evidence, the roost site is no longer considered to be active.

5 CONCLUSION

A Wintering Bird Survey was conducted at Southannan Sands, Hunterston Sands, and Fairlie Sands. The surveys were undertaken during the period of early November 2023 to March 2024.

A total of 41 species were recorded over the course of this survey.

Of the waders encountered, Oystercatcher, Curlew, Dunlin, and Redshank were the most numerous species encountered, with smaller numbers of Bar-tailed Godwit, Greenshank, and Ringed Plover also present.

Wigeon was by far the most numerous waterfowl species recorded, with significant numbers of Teal and Greylag Goose also present, as well as smaller numbers of Shelduck, Eider, Mallard, Mute Swan, and Red-breasted Merganser.

Of the three areas surveyed:

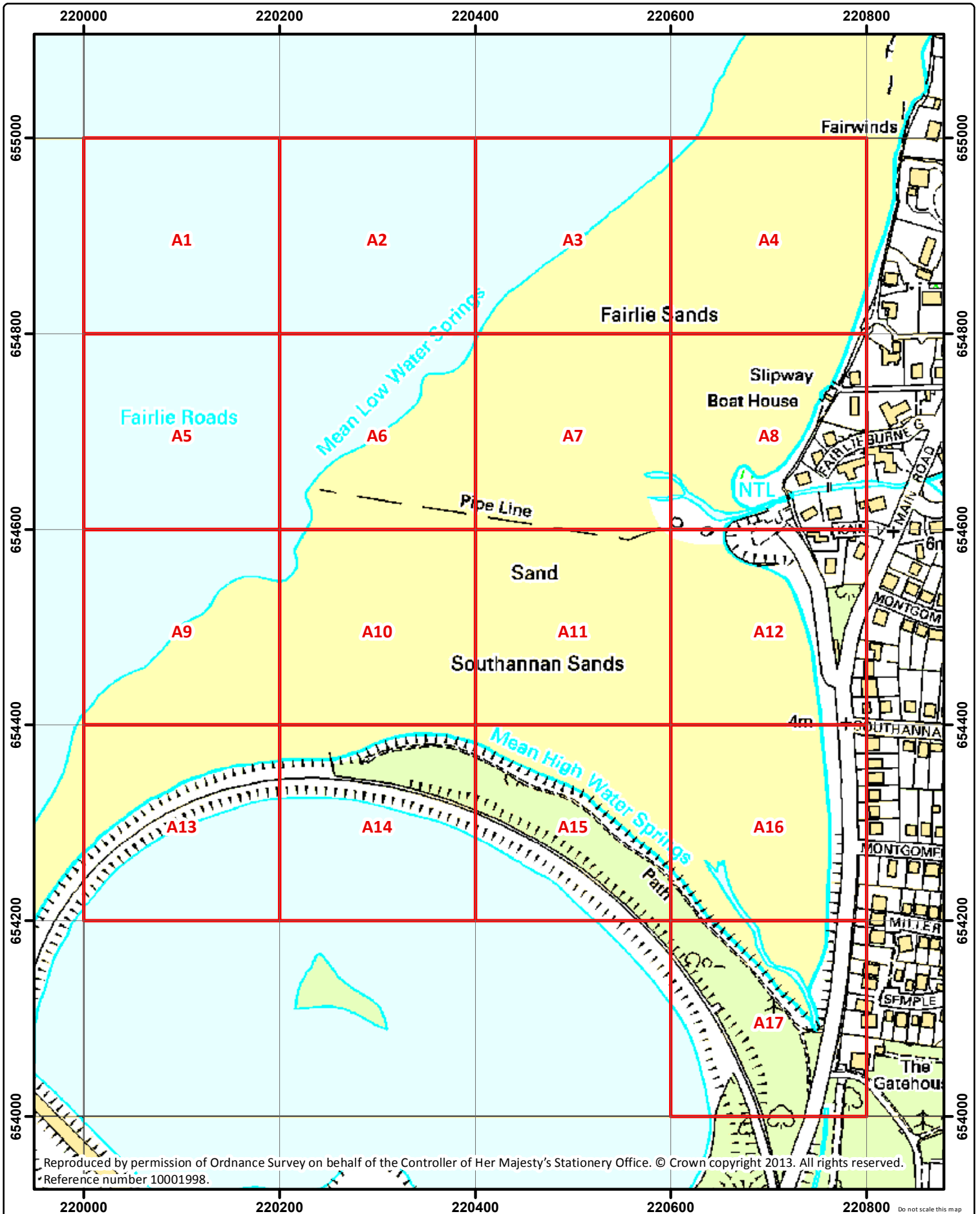
- Southannan Sands continues to support the largest concentrations of wader and waterfowl species. With large numbers of Oystercatcher, Curlew, Wigeon, Redshank, and Shelduck regularly present feeding and roosting, with particular note being made of the high concentrations of roosting birds within the artificial lagoon.
- Hunterston Sands supports the highest concentrations of Dunlin and Ringed Plover over the survey area.

All three survey areas provide roosting habitat for Oystercatcher, Curlew, and Redshank, with the north-east corner of Southannan Sands and the artificial lagoon supporting the highest concentrations, with regular counts of up to 300, 200, and 100 birds respectively, with further roosting provisions for Dunlin, Bar-tailed Godwit, and Greenshank in smaller concentrations.

The results of the surveys indicate that the active ground works taking place at the marine yard have not resulted in significant changes in site use by any species of bird present or caused the abandonment of any traditional roost sites. Further annual wintering bird surveys are recommended at the site throughout the duration of the works and post-construction to maintain the ecological baseline and inform appropriate avoidance, mitigation, and licensing where necessary.

APPENDICES


**A SOUTHANNAN, HUNTERSTON AND FAIRLIE SANDS
SURVEY AREAS**



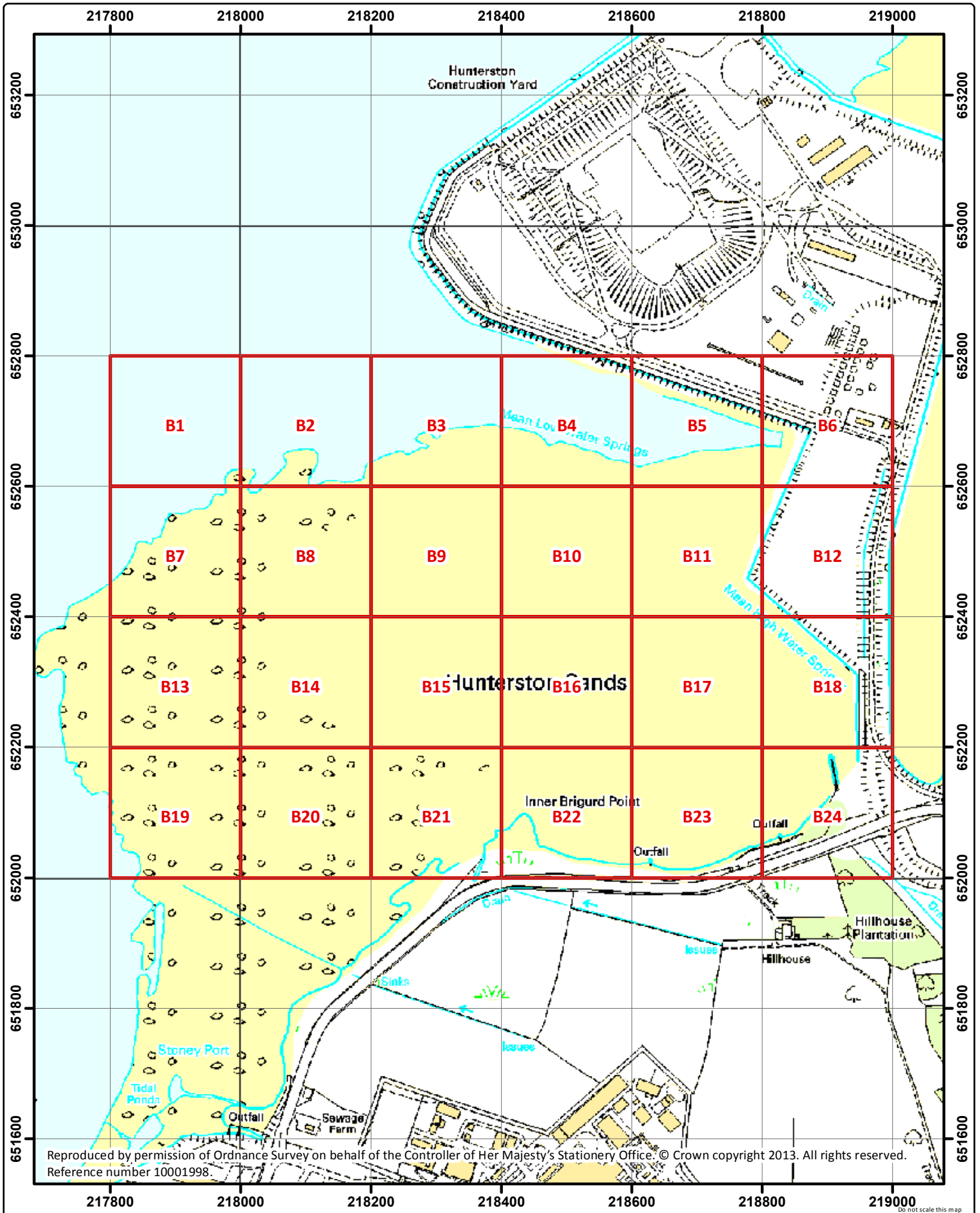
Client		Scottish and Southern Energy Renewables	
Project		Hunterston NOWTTF	
Title		Wintering Bird Survey	

Status		FINAL	
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Project		Scale	Date
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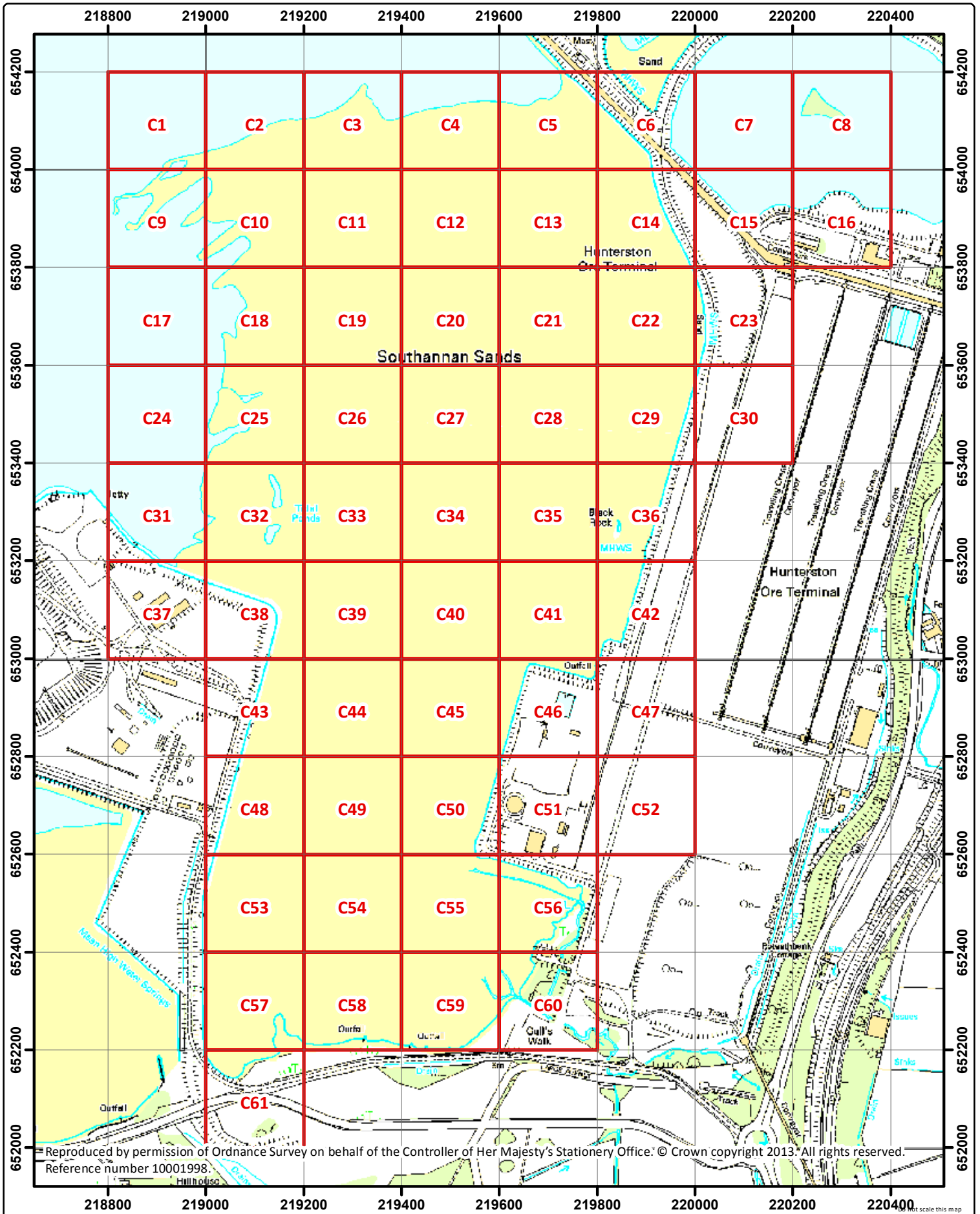


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 Fax: 0141 341 5045



<p>Client</p> <p>Scottish and Southern Energy Renewables</p>		<p>Status</p> <p>FINAL</p>	
		<p>Drawing No.</p> <p>163571_001</p>	<p>Revision</p>
<p>Project</p> <p>Hunterston NOWTTF</p>		<p>Scale</p> <p>1:7,500</p>	<p>Date</p> <p>23 April 2013</p>
<p>Drawn</p> <p>JJ</p>	<p>Checked</p> <p>FM</p>	<p>Approved</p> <p>MS</p>	
<p>Title</p> <p>Wintering Bird Survey</p>		<p>ENVIRO Centre</p> <p>Craighall Business Park, Eagle Street, Glasgow, G4 9XA Tel: 0141 341 5040 Fax: 0141 341 5045</p>	

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<p>Project</p> <p>Hunterston NOWTTF</p>		<p>Drawing No.</p> <p>163571_001</p>	<p>Revision</p>
<p>Title</p> <p>Wintering Bird Survey</p>		<p>Scale</p> <p>1:7,500</p>	<p>Date</p> <p>23 April 2013</p>
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Client		Scottish and Southern Energy Renewables	
Project		Hunterston NOWTTF	
Title		Wintering Bird Survey	

Status	FINAL		
Drawing No.	163571_002	Revision	
Scale	1:10,000	A4	Date 23 April 2013
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		MS	

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B SURVEY RECORDING SHEETS

Hunterston Wintering Bird Survey – Early November 2023 results (MS)

Southannan Sands – 6th November 2023

90% cloud cover, light, scattered showers, 1-2 Beaufort winds, 7°C. Low Tide 12:23

Count 1: 11:00	C6	12 OC, 1 CU	
	C21	1 GB, 1 CU, 2 OC	
	C22	1 BH, 13 MA, 3 SU, 27 OC, 5 RK, 1 ET, 4 CM	
	C29	41 OC, 15 CU, 75 DN, 23 SU	
	C40	4 WN	
	C41	9 OC, 11 BA, 1 RK, 2 WN, 1 CM	
	C43	7 OC, 1 CU	
	C44	9 WN, 1 SU	
	C45	83 OC, 14 DN, 12 GK, 10 RK, 36 WN, 1 HG, 1 BH	
	C48	1 ET, 1 HG, 2 GN	
	C50	1 ET, 53 WN, 25 T., 2 OC, 25 BA, 1 RK, 1 GK, 1 CM	
	C55	137 WN, 31 T., 4 SU, 7 OC, 68 DN, 3 CU, 4 BA, 2 RK, 3 GK, 145 CM, 1 HG, 8 BH, 1H.	
	C56	57 T., 1 MA, 2 RK, 1 LG	
	C57	32 WN, 8 MA, 1 ET, 1 H., 41 OC, 12 RK, 2 CU	
	C58	13 RK, 2 GK, 18 OC, 5 CU, 5 WN, 3 MA, 4 BH	
	C59	1 OC, 30 RK	
C60	1 GK, 1 RK, 2 BH		
Man made lagoon	C7/8/15/16	29 MS, 15 WN, 5 LG, 14 L., 1 GK	
Count 2: 13:45	C23	91 OC (Roost)	
	C29	60 WN, 32 SU	
	C36	93 WN, 23 OC	
	C42	80 WN, 20 SU, 1 H., 60 OC	
	C50	10 WN	
	C53	14 OC	
	C54	12 WN, 1 SU	
	C55	119 WN, 14 MA, 71 T., 2 SU, 95 OC, 128 DN, 22 RK, 14 GK, 6 CU, 45 BH, 52 CM, 7 HG	
	C56	54 WN, 49 T., 4 RK, 3 BH	
	C57	24 OC, 4 WN	
	C58	37 OC, 29 WN, 3 BH	
C59	68 OC, 12 RK, 7 BA, 4 CU, 1 DN		
C60	44 T., 19 MA, 3 WN, 1 OC, 1 GK, 1 RK, 2 LG, 1 ET		
Count 3	Position 1: 14:50	C22	45 WN
		C23	129 OC (Roost)
		C29	250 WN
		C36	107 WN, 20 MA, 36 CU (Roost)
		C42	190 WN, 3 SU
		C53	1 HG
		C55	4 MA, 5 SU, 3 BH
		C56	102 WN, 52 T., 23 SU, 3 RK, 3 DN
		C57	30 WN, 15 T., 27 OC, 1 CU, 1 CM
C58	52 DN, 63 OC, 7 RK, 9 SU		

		C59	165 DN, 8 RK, 20 OC, 3 CU, 2 RM, 5 MA, 15 T., 5 CM, 14 BH
		C60	22 WN, 4 T., 7 OC, 1 RK, 1LG
Man made lagoon	C7/8/15/16		48 MS, 32 WN, 5 LG, 1 H., 1 GK, 30 OC

Hunterston Sands – 10th November 2023

40% cloud cover, no showers, 2-3 Beaufort winds, 9°C

Count 1: 09:11	B15	83 CA, 200 WN
	B21	43 RK, 39 CU, 270 WN, 26 T., 32 SU, 13 MA
	B22	200 WN, 70 OC, 18 KN
	B23	34 OC
	B24	63 WN, 33 MA, 22 T., 1 ET, 5 RK, 3 OC
	Additional: Waterbody at NS 18596 53074 – 5 T., 1 MA	
Count 2: 11:30	B18	64 WN, 11 MA
	B21	232 WN, 19 SU, 15 CM, 3 HG, 9 BH
	B22	36 PG, 18 WN, 27T., 9 SU, 84 OC, 19 RK, 53 CU, 4 BA
	B23	38 WN, 22 T., 19 MA, 2 SU, 14 OC, 19 RK
	B24	3 MA, 9 WN, 3 T., 2 OC, 2 RK
	Additional: Waterbody at NS 18596 53074 – 5 T., 1 MA	
Count 3: 13:40	B10	69 WN
	B11	33 WN, 2 MA
	B15	200 WN, 26 SU, 3 T., 13 MA, 33 OC, 12 CU
	B16	30 WN, 12 CM, 3 HG, 21 OC, 3 CU
	B17	4 MA, 3 OC, 1 RK
	B18	1 ET
	B21	69 OC, 32 CU, 28 RK, 5 DN, 1 KN
	B22	23 WN, 25 T., 3 SU, 13 OC, 9 RK, 2 BA, 11 CU
	B23	3 OC, 2 RK, 1 SU
	B24	6 MA, 2 OC

Hunterston Wintering Bird Survey – November 2023 results (BB)

Southannan Sands – 28th November 2023

40% cloud cover, light, scattered showers, 1-2 Beaufort winds, 9°C

Count 1	Position 1: 09:42	C56	6 OC, 241 DN, 2 GD, 69 T, 119 WN, 13 RK, 2 SU, 1 BH, 1 CU	
		C55	7 T, 11 WN, 1 RK	
		C60	4 MA, 1 ET, 91 T, 26 WN, 1 CU	
		C59	7 DN, 65 RK	
		C58	82 OC, 11 RK, 1 BH, 1 CM, 12 WN	
		C57	27 OC, 37 RK, 11 T, 2 BH	
	Position 2: 10:36	Nothing recorded		
	Position 3: 10:45	C23	74 OC	
		C36	92 CU, 9 SU, 14 OC, 15 WN, 3 MA	
		C42	4 MA, 7 WN	
	Count 2	Position 1: 11:15	C56	131 WN, 171 T, 16 RK, 1 H, 1 ET
C55			36 T, 70 RK, 13 GK, 99 WN, 8 SU	
C60			2 WN, 1 GN	
C59			6 T, 1 RK, 2 WN	
C58			45 OC, 6 T, 5 BH, 2 CM, 2 GD	
C57			1 BH	
Position 2: 12:09		Nothing recorded		
Position 3: 12:19		C23	103 OC	
		C22	4 WN	
		C36	82 CU, 9 OC, 16 DN, 4 T, 15 WN, 1 MA	
		C42	3 MA, 14 WN	
Other Loch: 12:45		C7/8 15/16	49 MS, 426 WN, 36 GH, 12 LG, 210 OC, 42 RK, 4 HG, 2 GD, 10 L, 12 MA	
Count 3		Position 1: 13:47	C56	45 WN, 40 T, 3 RK, 2 GD, 1 BH, 281 DN, 5 OC
			C55	47 WN, 8 GK, 3 RK, 1 SU, 8 T
			C60	43 RK, 53 T, 12 WN, 5 DN
			C59	84 WN, 58 T, 11 BH, 8 SU
			C58	25 T, 23 RK, 19 SU, 17 BH, 2 HG
	C57		31 T, 4 BH, 4 OC	
	Position 2: 14:30	C46	3 CU, 8 OC	
		C45	4 BH	
	Position 3: 14:40	C23	5 WN, 4 RK, 68 OC	
		C29	1 BH	
		C36	77 OC, 61 CU, 21 RK, 13 T, 6 SU, 4 MA	
		C42	6 BH, 8 OC, 4 RK, 8 T	
		C41	52 T, 30 WN	

Hunterston Sands – 29th November 2023

10% cloud cover, no showers, 2-3 Beaufort winds, 11°C

Count 1	Position 1: 9:16	B18	8 OC, 2 CU, 6 RK
		B24	4 RK, 2 MA
		B23	8 RK, 4 OC, 5 CU
		B17	8 CM, 45 OC, 25 RK, 6 CU
		B16	67 OC, 8 CU, 17 RK, 13 SU, 17 WN, 24 MA, 4 CM
		B12	19 OC, 13 RK, 4 CU
		B21	4 SU, 11 RK, 7 CU, 2 BH, 1 HG
		B15	12 CU, 36 RP, 77 OC, 15 RK, 21 WN, 7 MA, 5 SU
		B20	2 CA 4 BH
		B14	1 CA, 18 BH, 4CM
	Position 2: 10: 30	B11	15 T, 10 WN, 4 MA
		B10	9 T, 2 WN, 4 SU
Additional: Waterbody at NS 18596 53074 – 35 WN, 15 T, 10 MA Juvenile Redacted at NS 18485 53183 perched then flew SW – two recent and old kill sites along this stretch.			
Count 2	Position 1: 11:30	B24	7 OC, 21 MA, 3 RK, 8 WN
		B23	3 BH, 1 MA
		B22	94 DN, 18 RK, 3 SU, 7 MA
		B21	21 SU, 26 CU, 67 OC, 4 CM, 3 BH, 2 GD, 14 WN
		B15	1 GB
	Position 2: 12:15	B3	8 SU, 1 CA
Count 3	Position 1: 13:00	B24	4 OC, 23 MA, 3 WN, 6 RK, 2 BH, 1 ET
		B22	29 RK, 4 SU, 12 MA, 4 WN, 31 DN
		B21	10 SU, 20 CU, 1 HG, 2 CM, 3 T
	Position 2: 13:45	B3	2 GD
		B9	1 GD, 1 CA
		B16	3 GD
Additional records		SG and FF present in high numbers throughout the sea buckthorn scrub – noted throughout site. Male Redacted in flight from N to S, recorded at NS 20180 53157 over scrubland at 14:30.	

Hunterston Wintering Bird Survey – December 2023 results (BB)

Southannan Sands – 18th December 2023

Scattered showers and strong winds throughout the survey – strongest during Count 3, birds sheltering in enclosed loch rather than usual roosts.

Count 1	Position 1: 09:14 (Low tide)	C56	12 RK	
		C55	24 RK, 96 GJ, 4 CU, 3 WN, 15 OC	
		C54	13 CU, 81 OC, 10 SU, 16 BH, 6 HG, 1 ET, 5 MA, 72 DU	
		C53	52 OC, 4 CU, 6 SU, 5 RK	
		C50	3 CU, 70C, 4 T, 12 BH, 2 HG, 1 GB	
		C49	46 OC, 2 CU, 1 HG, 4 SU	
		C48	3 OC, 2 BH	
		C59	4 RK, 3 OC, 1 CU	
		C58	15 OC, 2 CU	
		C57	5 OC	
	Position 2: 10:00	C44	32 OC, 6 CU	
		C43	12 OC	
		C40	3 OC, 1 CU	
		C39	10 OC	
	Position 3: 10:15	C5	7 RK, 2 GK, 37 OC, 4 MA	
		C4	1 CA	
		C14	7 OC, 1 ET	
		C13	46 OC, 3 CU	
		C12	18 OC, 2 CU, 1 HG	
		C22	4 OC	
		C21	3 OC, 1 HG	
		C20	2 OC, 1 GB	
		C28	4 OC	
		C27	2 BH	
	Enclosed Loch	596 WN, 5 GN, 4 GD, 35 MS, 1 CA, 32 T, 4 RK, 15 MA, 1 H, 4 LG		
	Count 2	Position 1: 11:00	C56	2 MA, 1 BH
			C55	3 RK, 61 OC, 346 CM, 21 HG, 34 SU, 3 CU
			C54	2 BA, 32 OC, 7 SU
			C53	47 RK, 2 CU, 7 OC, 6 MA
			C50	2 CU
			C59	3 RK, 12 OC, 5 CM
			C58	112 OC, 4 SU, 2 HG
			C57	46 OC, 13 RK, 1 HG
Position 2: 11:45		C45	1 MS	
Position 3: 11:55		C29	19 MA	
		C36	18 OC, 13 CU, 2 RK	
Enclosed Loch		596 WN, 161 OC, 59 DU, 86 RK, 28 MS, 1 CA, 7 CG, 4 GK, 2 H, 4 LG, 1 ET, 7 GN		
Count 3		Position 1: 13:15	C56	43 RK, 2 GK
			C55	24 RK
	C53		2 MA	

		C58	67 OC
	Position 2: 14:00	Nothing recorded	
	Position 3: 14:10	C36	12 CU
	Enclosed Loch	596 WN, 254 OC, 103 DU, 92 RK, 31 MS, 6 GN, 9 H, 4 GD	

Hunterston Sands – 19th December 2023

Scattered showers and high winds during first count, milder for second and third.

Count 1	Position 1: 10:00 (Mid to Low tide)	B24	4 MA	
		B22	3 CU, 2 SU	
		B21	2 CU	
		B16	2 OC	
		B15	2 BH, 1 HG, 1 CA, 3 CU	
		B14	2 CU, 126 RP, 5 HG, 6 OC, 2 BH	
		B9	31 OC, 2 CM, 12 RK, 4 CU, 6 SU	
	Position 2: 11:02	B10	16 OC	
		B9	6 OC, 2CM, 12 RK, 4 CU, 6 SU	
		B3	36 MA, 11 SU, 2 BH, 12 OC, 2 HG, 4 GD, 5 RK	
		B5	3 CU, 5 OC	
		B4	7 CU, 24 OC, 2 BH, 1 HG	
	Additional records: Waterbody at NS 18596 53074 – 350 T Juvenile ^{<Redacted>} (2-3 years) at NS 18613 53267. Perched on rock bank, flew west from perch.			
	Count 2	Position 1: 11:30 (Low tide)	B17	2 MA
B16			3 CU, 22 OC	
B15			3 OC	
B14			6 OC, 2 BH, 1 HG	
Position 2: 12:15		B5	4 OC, 1 CU	
		B4	2 CM, 2 OC	
		B3	19 MA, 3 OC, 1 CU	
		B10	19 RK, 13 OC, 42 DU	
		B9	2 CU, 31 OC	
		B8	120 RP, 9 OC	
Count 3		Position 1: 13:15	B18	3 OC
			B17	62 OC, 26 SU, 6 CU, 43 CM
			B16	13 OC, 4 CU, 7 CM, 7 RK
	B15		36 DU, 26 OC, 3 CU, 5 SU, 2 HG	
	B20		6 OC, 120 RP, 3 BH, 2 CU	
	B14		12 OC, 4 CU	
	Position 2: 13:55	B11	9 OC	
		B10	12 CU, 7 OC	
		B9	4 OC, 1 CU, 2 BH, 8 RK	
		B8	23 MA, 8 OC, 5 RK, 3 SU, 2 CM, 1 HG	

Additional records	High numbers of SG and FF noted in the buckthorn scrub throughout the site
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Fairlie Sands – 20th December

Scattered showers and high winds throughout survey, counts taken when winds eased.

Count 1	Position 1: 8:50 (Mid to Low tide)	A17	1 H, 6 OC, 20 WN
		A16	4 RK, 1 GK, 7 OC, 3 CU, 4 WN
		A12	4 OC, 1 CM, 5 MA
		A15	5 MA, 1 CU, 1 OC, 1 CM, 6 WN
		A11	3 BA 11 OC, 1 HG, 2 MA, 2 CM, 2 WN
		A8	2 OC
		A4	1 HG, 3 OC, 2 CM
Count 2	Position 1: 9:50 (Low tide)	A16	1 HG, 26 WN, 2 GK, 1 BA, 2 RK, 3 OC
		A12	1 GB
		A15	8 MA, 2 OC, 1 HG, 1 CU, 4 WN
		A11	15 OC, 4 CM, 1 HG, 2 GD, 1 CU
		A14	9 OC, 12 WN, 5 MA, 2 CM
		A8	14 OC, 4 CM, 2 CU
		A4	4 OC, 2 HG
Count 3	Position 1: 11:00	A16	3 CM, 2 OC, 1 HG
		A12	9 MA, 2 OC
		A15	1 CU, 1 GK, 2 OC, 1 GB
		A11	1 CU, 7 WN, 8 OC, 2 CM
		A14	6 OC, 1 CM
		A10	3 OC
		A8	25 OC
		A4	3 BA, 5 CU, 28 WN, 24 OC, 4 CM, 2 HG, 3 BH, 2 RK

Hunterston Wintering Bird Survey – January 2023 results (BB)

Southannan Sands – 29th January 2024

Mild and clear weather, winds at 1 Beaufort scale, 100% cloud cover, 6°C

Count 1	Position 1: 09:20 (Low tide)	C55	3 BH, 13 OC, 3 CU, 3 SU	
		C54	184 CM, 17 HG, 22 SU, 42 OC, 1 GB, 2 BH, 12 CU	
		C53	57 OC, 9 CU, 2 ET, 12 RK, 3 HG, 5 GK	
		C50	3 MA, 5 CU, 3 OC, 1 BH, 14 SU	
		C49	7 SU, 38 OC, 4 CU, 6 CM	
		C48	9 RK, 6 OC, 2 CU, 2 MA, 1 GD, 2 MA	
		C60	3 MA, 2 BH, 2 GA, 1 BW, 3 RK	
		C59	2 BH	
		C58	8 CM, 6 OC	
		C57	2 CM, 18 OC	
		Position 2: 10:05	C44	4 CU
	C45		39 CU, 22 OC, 2 CG, 1 BH	
	Position 3: 10:25	C5	2 MA	
		C6	2 HG	
		C14	26 OC, 2 CU, 2 BA	
		C22	47 OC, 5 RK, 1 BW	
		C29	54 OC, 60 CU, 57 DN, 3 HG, 7 RK	
		C36	22 CU, 3 OC	
		C41	16 CU, 7 OC, 2 CM	
	Artificial Lagoon	C40	6 OC, 2 SU	
690 WN, 5 H, 20 CG, 6 GK, 8 BA, 27 RK, 52 DN, 28 OC, 1 CA, 7 LG				
Count 2	Position 1: 10:55 (Mid tide)	C56	1 H	
		C55	22 T, 29 SU, 46 BH, 7 HG, 98 CJ, 27 RK, 18 OC, 2 BA, 2 GN	
		C54	4 HG, 1 MS	
		C60	1 RK, 1 BH, 1 ET	
		C59	61 BH, 7 MA, 2 GB, 9 HG, 87 CM, 14 RK, 23 OC	
		C58	66 OC	
		C57	7 RK, 7 OC	
	Position 2: 11:40	C45	2 SU	
	Position 3: 11:55	C23	180 OC, 1 HG	
		C36	98 CU, 35 OC	
		C42	6 CU, 2 SU	
	Artificial Lagoon	690 WN, 97 OC, 92 DN, 18 BA, 6 GK, 12 RK, 8 CU, 1 GN, 2 RM		
	Count 3	Position 1: 13:15 (Mid to High tide)	C56	2 GA, 18 T, 2MA, 31 RK
			C54	2 GN
			C58	1 MA, 9 SU, 20 BH, 14 CM, 11 WN
Position 2: 14:00		Nothing recorded		
Position 3: 14:05		C23	4 OC, 2 SD	
		C36	34 OC, 64 CU	

		C42	2 MA
	Enclosed Loch	730 WN, 246 OC, 31 BA, 116 DN, 7 GK, 16 RK, 6 CU, 2 RM, 1 CM	

Hunterston Sands – 30th January 2024

Clear, 30% cloud cover, no wind, 2°C

Count 1	Position 1: 9:20 (Low tide)	B24	5 SU, 4 MA	
		B23	2 CU, 1 SU, 1 CM	
		B22	8 SU, 3 CU, 16 CM	
		B21	1 SU, 2 CU	
		B20	5 CM, 1 H, 5 HG, 1 GB	
		B16	1 CU	
		B15	12 OC, 11 CU	
		B14	2 HG, 2 CM, 1 ET, 2 CU, 4 OC	
		B8	3 CG, 5 OC, 6 CU, 2 HG	
		B9	23 OC, 10 CU, 6 HG	
	Position 2: 10:00	B2	1 RM, 2 SU, 4 MA	
		B3	2 GB, 4 HG, 7 CM, 2 CU	
		B4	1 CM, 3 HG, 6 MA	
		B5	2 CU, 2 OC	
		B6	15 RK	
		B7	5 WN, 5 CA	
	B13			2 HG
	Additional records: Waterbody at NS 18596 53074 – 3 RK 5 H perched on north-west edge of development site. 170 GJ in pastoral field to south of SSSI.			
	Count 2	Position 1: 10:30 (Low to mid tide)	B24	8 MA, 2 SU
B23			2 CM	
B22			7 SU, 1 CU	
B21			8 SU	
B20			4 HG, 1 GB, 1 CU	
B19			1 RM, 3 CA	
B18			7 OC	
B17			19 OC, 17 CU	
B16			10 OC, 2 HG, 2 SU	
B15			2 CU, 2 HG, 13 OC	
B14			1 ET, 25 RP, 3 HG, 6 OC, 4 CU, 4 SU, 5 DN	
B13			1 GB, 3 HG	
Position 2: 11:10			B11	2 OC
		B10	4 OC, 6 CU, 10 MA	
		B9	3 CU, 10 OC, 1 SU, 4 BH	
		B8	7 OC, 7 HG, 7 BH, 4 CU, 3 CM, 2 SU	
		B7	2 SU, 7 OC, 3 HG, 1 GB, 4 CU	
		B6	3 MA, 1 CU	
		B2	1 HG	
B1		2 CA		

Count 3	Position 1: 12:20	B24	2 SU, 4 MA, 1 BH, 1 ET
		B23	13 OC, 1 BH
		B22	43 OC, 29 CU, 4 HG, 2 BH, 3 RK
		B21	48 OC, 8 SU, 2 CU, 2 CM
		B20	36 RP, 19 CU, 4 SU, 12 OC
		B19	3 HG, 1 CM, 1 GB
		B18	2 SU, 1 OC
		B17	11 MA, 6 OC, 2 SU
		B16	5 OC, 3 SU
		B15	3 HG, 2 CM, 3 OC
		B14	1 GB, 1 HG, 2 CA
	Position 2: 13:05	B13	3 CA, 2 BH
		B7	2 CA
		B8	1 RM
B2		2 RM, 1 E, 1 RH	
Additional records		High numbers of SG and FF noted in the buckthorn scrub throughout the site.	

Fairlie Sands – 31st January 2024

Scattered showers and high winds throughout survey, counts taken when winds eased.

Count 1	Position 1: 8:45 (Low tide)	A17	1 ET
		A16	2 BH
		A12	1 HG, 2 OC
		A11	7 OC, 2 CU
		A14	1 BH, 1 CM
		A10	22 OC, 4 CU, 11 BA
		A9	47 T, 1 CA, 7 BA, 12 OC, 1 CU
		A13	5 OC, 2 HG, 4 MA
		A8	6 MA, 2 BH, 1 HG
		A7	13 OC, 3 CU, 8 CM, 1 GB
		A6	9 OC, 2 CU, 13 WG
		A3	14 WN, 22 BA, 17 OC, 2 CU, 1 CA
		A4	10 BA, 4 OC, 1 CU, 2 BH
Count 2	Position 1: 9:50 (Low to mid tide)	A17	1 ET
		A15	7 RK, 15 WN, 3 CM, 1 HG
		A10	5 MA, 13 WN, 6 OC
		A11	11 OC, 4 BA, 4 CM, 5 RK, 2 BW
		A8	9 OC, 2 HG
		A7	26 BA, 12 OC, 21 WN
		A3	13 WN, 4 CU, 5 MA, 8 OC
		A4	1 ET, 6 OC, 2 HG, 9 CM
Count 3	Position 1: 10:50 (Mid tide)	A16	4 OC, 2 BH, 3 CM
		A12	1 BH, 3 HG, 4 MA, 5 MS
		A15	3 HG
		A11	25 OC, 1 CU, 9 RK
		A7	44 WN, 22 OC

		A3	21 WN, 15 OC, 2 BH
		A4	12 OC, 3 CU, 2 HG

Hunterston Wintering Bird Survey – February 2023 results (BB)

Southannan Sands – 26th February 2024

Mild and clear weather, winds at 1 Beaufort scale, 10% cloud cover, 0°C

Count 1	Position 1: 09:10 (Low tide)	C56	63 T, 3 MA, 1 BH	
		C55	53 T, 29 WN, 3 MA, 1 ET, 6 CU, 6 RK, 3 GK, 1 H, 29 SU, 7 OC, 19 HG, 2 LB, 2 GB, 8 BH, 1 CM	
		C54	45 OC, 19 CU, 32 SU, 41 RK, 4 BH, 2 CM	
		C53	34 OC, 8 CU, 9 RK, 3 CM	
		C60	2 RK, 4 BH	
		C59	5 CU, 3 CM, 6 HG, 4 SU, 2 OC	
		C58	7 BH, 2 CM, 7 OC, 3 CU	
		C57	15 OC, 3 RK, 2 CU, 6 SU, 2 CM	
	Position 2: 10:05	C50	3 OC, 2 CU	
		C48	4 RK, 3 CU, 3 HG, 2 CM, 12 OC	
		C45	6 CU	
		C43	2 HG	
	Position 3: 10:25	C14	3 OC	
		C23	156 OC, 7 RK, 4 BA, 6 RP	
		C29	6 CU, 2 OC, 1 HG, 5 SU, 12 RS	
		C36	261 CU, 22 OC, 4 RK	
		C20	4 RM, 2 RT, 4 E, 5 GN, 2 CA, 1 CM	
		C42	7 CU, 4 OC	
	Artificial Lagoon	630 WN, 5 H, 1 ET, 117 RK, 71 BA, 216 DN, 106 OC, 6 GN, 5 LG, 27 CM, 12 BH		
	Count 2	Position 1: 10:50 (Mid tide)	C56	34 RK, 135 T, 4 MA, 3 BH
C55			12 SU, 4 BH, 2 MA	
C53			21 OC, 4 HG	
C60			1 BH, 2 OC	
C59			14 SU, 5 OC, 13 BH, 4 CM, 5 HG, 6 RK	
C58			19 BH, 21 OC, 4 HG, 11 RK	
C57			4 OC	
Position 2: 11:50		Nothing recorded		
Position 3: 11:55		C19	5 E	
		C23	142 OC, 4 BA, 4 RP, 2 SU	
		C36	202 CU, 2 HG	
		C42	59 CU	
		C20	2 RM	
Artificial Lagoon		2 GB – same as previously		
Count 3		Position 1: 12:15	C56	97 T, 1 ET, 3 MA, 4 SU
			C60	5 SD, 1 BH
	C57		7 CM, 29 BH, 2 HG, 5 SU, 24 OC, 6 RK	
	C53		1 RM	
	Position 2: 14:00	Nothing recorded		
		C23	147 OC, 5 BA, 4 RP, 2 SU	

	Position 3: 14:05	C36	146 CU, 5 HG
		C42	22 CU
		C18	9 E
		C19	10 RM, 2 HG
		C34	150 CJ
	Enclosed Loch	7 H, 1 ET + same as previously	

Hunterston Sands – 27th February 2024

100% cloud cover, 3-4 Beaufort wind, 3°C, scattered showers

Count 1	Position 1: 9:30 (Low tide)	B24	6 SU, 3 BH, 1 CM, 1 RK
		B23	7 SU, 1 CU
		B22	9 SU, 3 CU, 1 OC
		B21	7 CU, 2 SU, 3 CM, 1 HG
		B20	3 HG, 1 ET
		B17	21 OC, 1 BH
		B16	35 OC, 3 CU
		B15	17 OC, 15 CU
		B14	65 RP, 6 E, 3 HG, 2 CM
		Position 2: 10:00	B10
B9	5 OC, 3 CU		
B8	2 GB, 3 CU		
Count 2	Position 1: 10:42 (Mid tide)	B24	4 SU, 4 MA, 5 BH, 1 RK
		B23	5 SU, 4MA, 12 BH, 16 CM, 1 CU, 7 OC
		B22	42 OC, 9 SU, 5 CU
		B21	9 CU, 2 OC, 7 SU
		B18	3 MA
		B17	6 OC
		B16	11 SU, 87 OC, 41 CU
		B15	21 OC, 9 CU, 2 GB, 62 RP
		B8	3 HG, 2 E, 2 SU
Count 3	Position 1: 11:50 (Mid to high tide)	B24	9 OC, 4 CM, 2 SU, 6 BH, 3 MA
		B23	65 OC, 9 CG, 2 BH, 2 RK
		B22	17 SU
		B21	15 SU
		B8	1 E
		B9	1 RM
Additional records		Flock of 350 GJ landed in field to the south of Southannan Sands.	

Fairlie Sands – 28th February 2024

Scattered showers, 100% cloud cover, 4-5 Beaufort winds, 6°C, counts taken when winds eased.

Count 1	Position 1: 8:45 (Low tide)	A15	1 CU
		A14	4 OC, 2 HG, 5 RK
		A10	34 OC, 2 GB, 12 RK, 26 WG, 1 CU, 12 CM, 4 BH, 2 HG

		A13	2 CM
		A7	21 OC, 6 CM, 1 RK
		A4	18 OC, 3 HG, 2 CU
Count 2	Position 1: 9:45 (Low to mid tide)	A17	4 BH, 2 CM, 2 HG
		A15	3 HG, 2 SU
		A11	6 OC, 2 CU, 2 HG, 2 BH, 52 WN, 2MA
		A14	2 GB, 2 RK
		A10	34 OC, 5 HG, 4 CM, 2 CU
		A7	2 WN
		Count 3	Position 1: 10:45 (Mid tide)
A15	4 OC, 2 BH		
A17	2 BH		
A14	3 HG, 2 GB		
A8	3 CU, 5 OC		
A4	7 OC, 1 CU		

Hunterston Wintering Bird Survey – February 2023 results (BB)

Southannan Sands – 18th March 2024

Mild and clear weather, winds at 1 Beaufort scale, 30% cloud cover, 12°C

Count 1	Position 1: 08:45 (Low tide)	C56	1 T
		C55	51 T, 11 GK, 7 LB, 14 SU, 279 WN, 17 OC, 31 CM, 19 BH, 3 HG, 13 CU, 1 H
		C54	71 CM, 30 BH, 5 LB, 17 OC, 2 HG, 3 CU
		C53	54 RK, 7 OC, 6 CU, 4 CM
		C60	55 T, 2 OC, 3 MA, 2 SU
		C59	2 SU, 20 CM, 11 BH, 2 LB
		C58	3 BH, 1 OC
		C57	5 BH, 3 OC, 3 CM, 2 RK
		C61	1 RK
	Position 2: 9:30	C50	42 WN, 4 LB, 13 OC, 4 CU, 8 CM, 4 BH, 7 CU
		C49	4 CM, 6 BH
		C48	12 RK, 4 CU, 2 CM, 1 LB, 3 OC
		C45	64 CU, 29 OC, 16 BA, 91 DN, 1 ET, 119 WN, 42 RK, 17 CM, 7 LB, 4 BH, 2 HG
		C44	26 WN, 4 CM, 8 BH
		C43	7 OC, 2 HG, 1 GB
	Position 3: 9:58	C5	4 SU, 3 MA, 1 CU
		C6	1 GB, 4 OC, 8 BH
		C14	2 CU, 3 OC
		C13	54 OC, 9 CU, 11 CM, 4 BH, 9 SU
		C12	50 OC, 16 CU, 6 SU, 14 RK
		C28	27 OC, 17 CU, 21 RK
		C35	7 OC, 12 BA, 11 RK, 9 CU
		C41	60 CU, 195 OC, 95 DN, 1 ET, 26 WN, 15CM
C42	31 CU, 95 OC, 15 BA, 94 WN, 42 RK, 2 CM, 9 LB, 7 BH		
Artificial Lagoon	6 GN, 4 RM, 3 CG, 27 CM, 14 BH, 2MS, 2 H		
Count 2	Position 1: 10:15 (Low to mid tide)	C55	113 T, 28 LB, 182 CM, 37 BH, 7 SU, 3 CU, 9HG
		C54	42 OC, 7 CU, 12 CM, 3 LB, 5 BH, 15 SU
		C53	17 GK, 12 OC, 4 CU, 22 RK, 4 CM, 4 HG
		C59	4 MA, 5 BH
		C58	42 CM, 12 BH
		C57	2 SU
	Position 2: 10:45	C50	7 SU, 5 HG, 12 CM
		C49	11 OC, 5 CM, 3 SU, 2 CU
		C48	7 CU, 12 HG, 5 CM, 7 OC, 5 RK
		C45	21 SU, 240 WN, 2 BH
		C44	5 SU, 12 WN, 13 BA, 7 GK, 41 OC, 17 CU, 9 CM, 5 BH
		C43	6 CU, 5 CM, 6 HG, 2 LB, 17 OC
		C40	67 CU, 37 WN, 8 GK, 32 OC, 21 CM, 17 BH, 7 BA, 4 LB
	C39	7 RM, 3 E, 6 WN	
	Position 3: 11:55	C5	3 CM, 2 BH
		C6	6 MA, 1 CU, 1 OC, 1 BH

		C12	37 CU, 52 OC, 19 CM, 9 HG, 2 GB
		C13	44 OC, 21 CU
		C21	17 CU, 12 OC, 13 CM, 5 HG, 7 BH
		C20	31 OC
		C27	37 CU, 45 OC, 17 CM, 12 BH
		C34	29 CU, 56 OC, 9 BH, 5 CM, 2 HG, 1 GB
	Artificial Lagoon		7 GN, 2 LG, 1 RM, 4 H
Count 3	Position 1: 12:15	C55	113 T, 42 LB, 67 WN, 142 CM, 24 SU, 15 CU, 2 GB, 15 OC, 56 BH
		C54	29 SU, 1 ET, 9 CU, 13 OC, 7 RK
		C53	25 RK, 4 OC, 2 HG, 7 GK, 4 CU, 6CM
		C60	3 BH, 2 MA
		C59	7 MA, 5 BH
		C58	12 CM, 4 CU, 9 BH
		C57	2 MA, 2 SU
	Position 2: 14:00	C50	5 SU, 2 HG, 27 CM
		C49	205 WN, 37 CM, 23 BH, 7 HG, 2 LB
		C48	37 WN, 19 OC, 3 CU, 14 BH, 7 CM
		C45	38 CU, 4 WN, 57 OC, 29 RK
		C44	27 CU, 17 OC, 7 RK, 3 CM
		C43	12 CU, 52 OC, 4 RK, 4 BH, 92 DN
		C40	13 GK, 21 CU, 3 OC, 12 RK
		C39	19 CU, 2 OC, 3 CM, 21 BH, 2HG, 1 GB
	Position 3: 14:05	C34	52 CU, 26 OC, 4 CM, 2 BH
		C5	4 RM
		C12	26 CU, 12 OC, 37 CM, 2 BH
		C13	23 OC, 12 CU, 21 RK
		C21	72 OC, 12 CU, 21 BH, 5 RK, 6 WN, 7 GK
		C20	12 CU, 38 OC, 5 RK, 5 MA, 1 BH
	Artificial lagoon	C27	25 CU, 23 OC, 5 HG, 1 GB, 12 WN
			Same low numbers as previously – no roost occupation.

Hunterston Sands – 19th March 2024

30% cloud cover, 3-4 Beaufort wind, 31°C, clear

Count 1	Position 1: 8:30 (High tide)	B24	4 OC, 4 SU, 2 CM, 2 BH, 1 MA, 1 CU
		B23	35 CM, 6 CU, 4 OC, 5 BH, 3 SU
		B22	21 SU, 8 CU, 9 CM, 5 OC, 2 GB
		B21	6 HG, 6 CU, 1 E, 1 GB, 5CM
		B20	3 E, 2 GB
		B18	2 MA, 1 BH
		B15	4 RM
		B8	2 RT, 2 CA, 1 E
Count 2	Position 1: 9:30 (High to mid tide)	B24	2 SU, 3 MA, 2 BH, 1 CM
		B23	18 CM, 28 SU, 7 CU, 4 OC
		B22	25 SU, 14 OC, 27 CM, 51 CU

		B21	2 E, 18 CU, 2 HG, 18 CM, 6 OC
		B20	3 HG
		B18	1 OC, 5 CG
		B17	6 CU, 6 OC
		B15	5 HG, 1 GB
		B6	2 HG, 5 BH
		B8	1 RM, 1 E
Count 3	Position 1: 10:30 (Mid tide)	B24	2 SU, 2 BH
		B23	22 SU, 9 CU, 5 OC
		B22	31 CM, 21 SU, 9 CU, 7 OC
		B21	3 HG, 1 GB, 21 CU, 25 CM, 2 LB, 3 CG
		B20	5 E, 4 SU, 1GB
		B15	2 GB, 7 HG, 24CM, 15 BH, 6 SU, 4 OC, 7 CU
		B14	4 E, 3 SU
		B8	6 RM
		B18	17 OC, 1 CM, 4 CU
		B17	14 OC, 10 CU, 1 H, 5 SU
		B13	3 HG, 2 LB

Fairlie Sands – 20th March 2024

20% cloud cover, 2-3 Beaufort winds, 7°C

Count 1	Position 1: 8:15 (High tide)	A17	4 WN, 3 BH
		A16	1 RK, 1 GK
		A12	1 GK, 2 MA
		A11	10 WN, 2 CM, 5 BH
		A10	1 E
		A2	3 E
		A5	109 E
		A9	2 RM
Count 2	Position 1: 9:15 (High to mid tide)	A17	1 MS, 2 T, 4 WN
		A16	3 BH, 6 WN
		A12	1 RK, 2 MA, 1 GK, 12 WN, 2 BH, 1 OC
		A15	3 WN, 1 RM
		A11	2 GN
		A10	1 RM
		A8	2 CM
		A7	2 MS
		A9	3 SA, 4 BH, 79 E
A5	64 E		
Count 3	Position 1: 10:15 (Mid tide)	A17	10 WN
		A16	1 RM, 2 GN
		A12	1 RK, 2 MA, 19 WN, 2 OC, 3 BH, 2 CM, 1 MS, 1 LB
		A11	1 RM
		A5	59 E, 2 LB, 1 GB
		A8	3 RM
		A6	3 RM
A9	6 E, 2 SA		