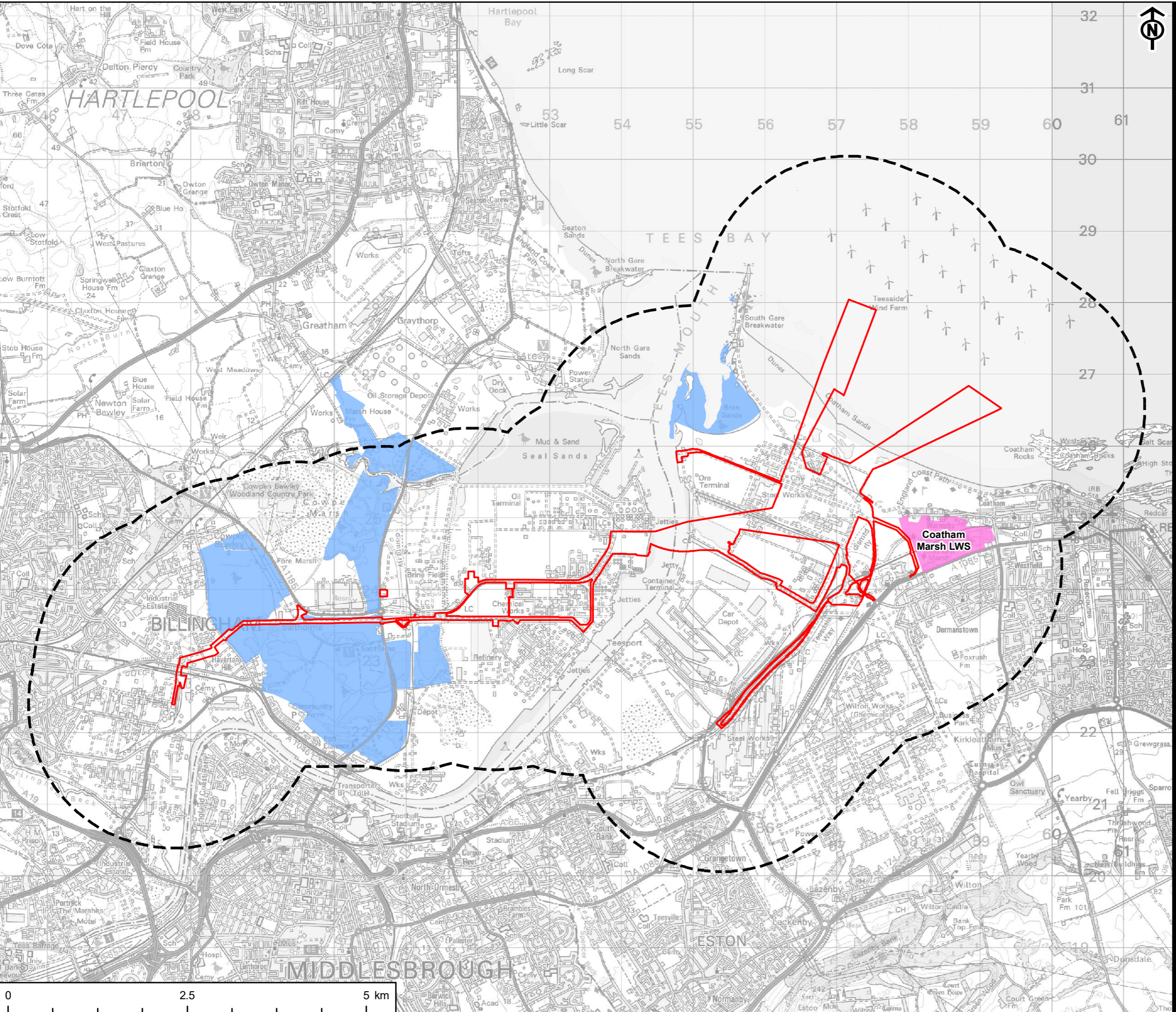


Figure 15A-4: Non-Statutory Designated Site

Project Management Initials: RL Designer: LC Checked: AR Approved: RW

Scale @ A3 1:50,000



AECOM

PROJECT
NET ZERO TEESIDE PROJECT

Net Zero Teesside

APPLICANTS
NZN POWER LTD. AND NZNS STORAGE LTD.

KEY

- Site Boundary
- 2km Study Area - Local Statutory and Non-Statutory Nature Conservation Designations
- RSPB Saltholme Nature Reserve
- Local Wildlife Site

TITLE
FIGURE 15A-4
NON- STATUTORY DESIGNATED SITES

REFERENCE
NZN_210511_OB_15A-4_v3

SHEET NUMBER
1 of 1

DATE
11/05/21

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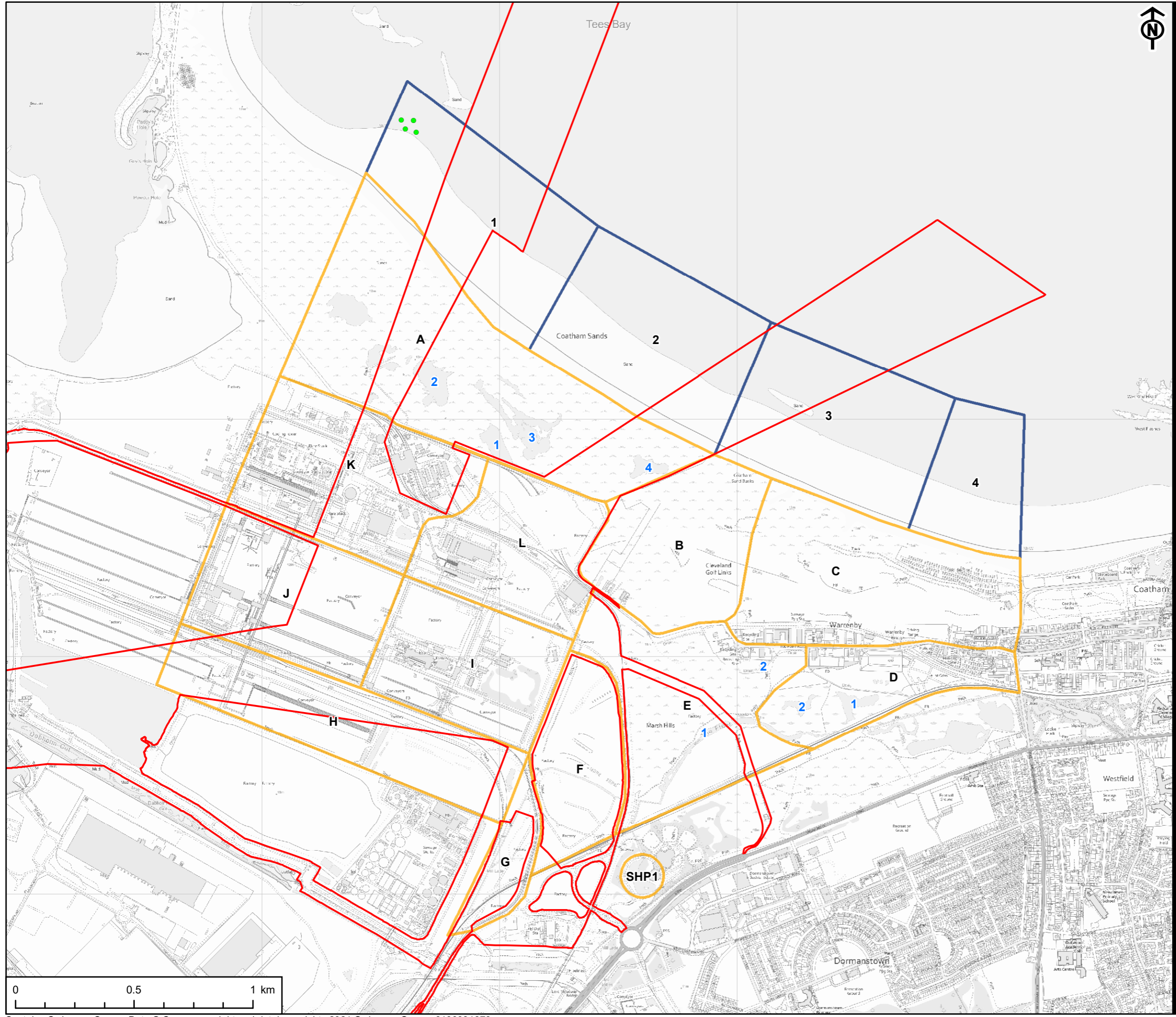
Figure 15A-5: Recorded Distribution of Little Tern in Survey Area



- KEY
- Site Boundary
 - Intertidal Count Sector
 - High Tide Count Sector

Little Tern Sighting
● 27/07/2018

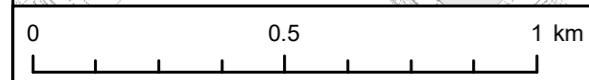
- Species Count
- 1 - 10
 - 11 - 20
 - 21 - 30
 - 31 - 40
 - 41 - 50
 - 51 - 60
 - 61 - 70
 - 71 - 80
 - 81 - 90
 - 91 - 100



TITLE
FIGURE 15A-5
LITTLE TERN DISTRIBUTION

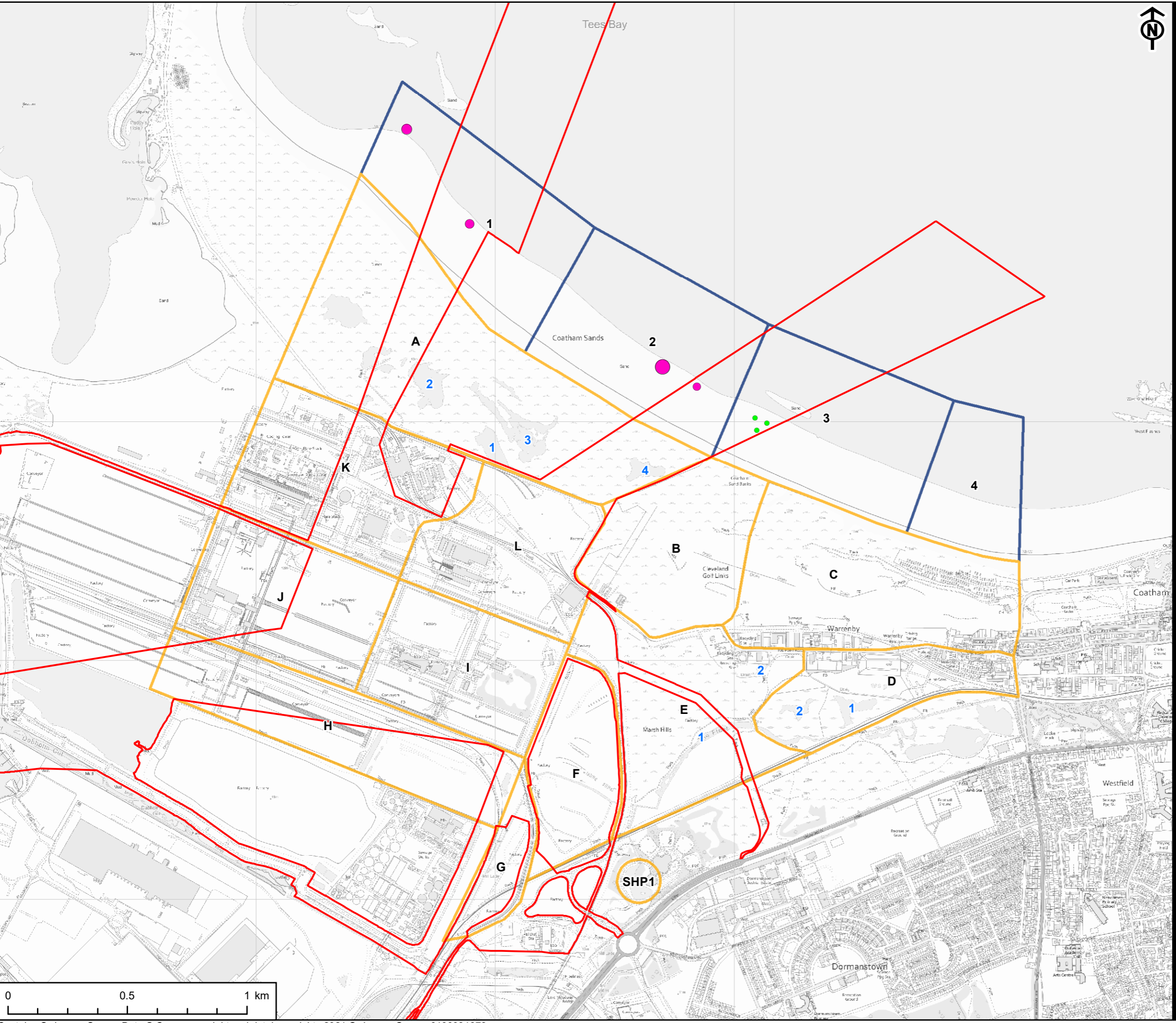
REFERENCE
NZN_210511_OB_15A-5_v2

SHEET NUMBER 1 of 1
DATE 11/05/21



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Figure 15A-6: Recorded Distribution of Sandwich Tern in Survey Area



- KEY
- Site Boundary
 - Intertidal Count Sector
 - High Tide Count Sector
- Sandwich Tern Sighting
- 25/05/2018
 - 27/07/2018
- Species Count
- 1 - 10
 - 11 - 20
 - 21 - 30
 - 31 - 40
 - 41 - 50
 - 51 - 60
 - 61 - 70
 - 71 - 80
 - 81 - 90
 - 91 - 100

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Figure 15A-7: Recorded Distribution of Common Tern in Survey Area



KEY

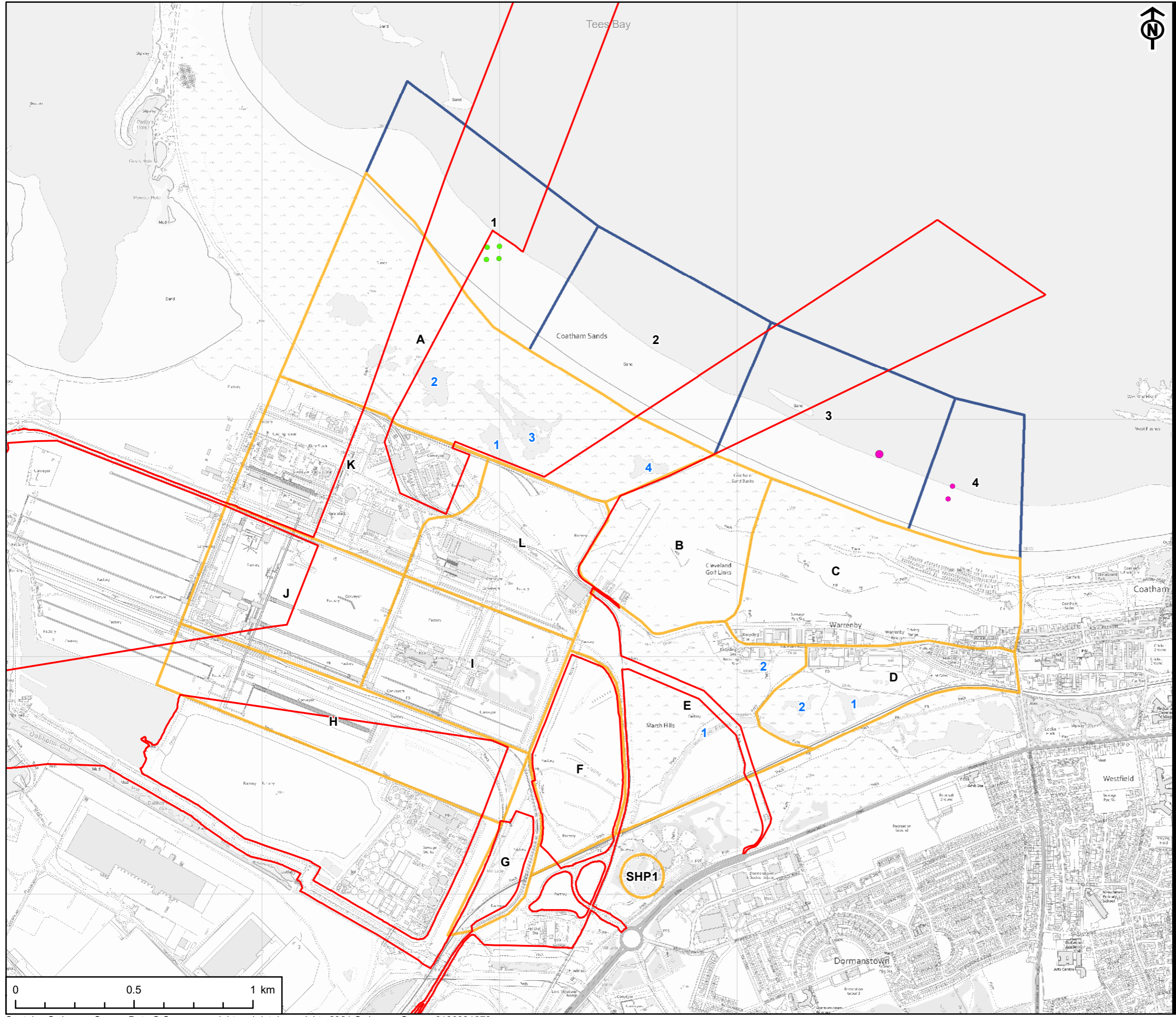
- Site Boundary
- Intertidal Count Sector
- High Tide Count Sector

Common Tern Sighting

- 27/07/2017
- 25/09/2017

Species Count

- 1 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50
- 51 - 60
- 61 - 70
- 71 - 80
- 81 - 90
- 91 - 100



TITLE

FIGURE 15-7A
COMMON TERN DISTRIBUTION

REFERENCE

NZN_210511_OB_15A-7_v2

SHEET NUMBER

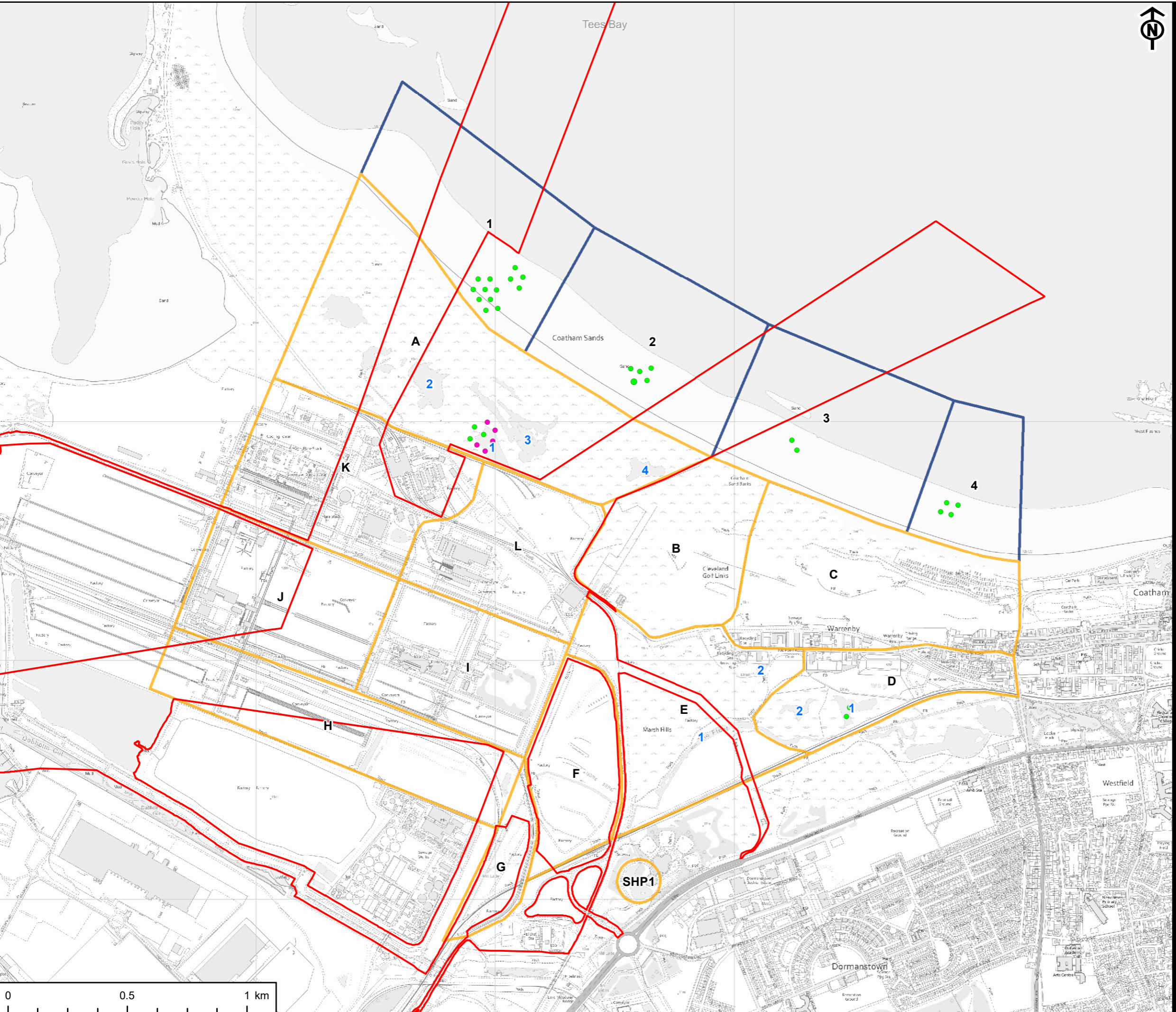
1 of 1

DATE

11/05/21

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Figure 15A-8: Recorded Distribution of Redshank in Survey Area



KEY

- Site Boundary
- Intertidal Count Sector
- High Tide Count Sector

Redshank Sighting

- 14/11/2017
- 27/11/2017

Species Count

- 1 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50
- 51 - 60
- 61 - 70
- 71 - 80
- 81 - 90
- 91 - 100

TITLE
 FIGURE 15A-8
 REDSHANK DISTRIBUTION

REFERENCE
 NZT_210511_OB_15A-8_v2

SHEET NUMBER 1 of 1
DATE 11/05/21

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15.6 Annexes

Annex 1: High Tide and Intertidal Count Summary Metadata (all times in 24hr clock format)

Date	Count Time	Tidal Range	Low Tide ¹	High Tide ¹	Weather Conditions ²
2017					
11 September	10:00 – 16:00	Intertidal (flowing)	12:58	19:07	14-16°C; dry; wind NW 3-6; visibility >3 km
	16:00 – 18:00	High			14°C; dry; wind NW 6-7; visibility >3 km
25 September	07:00 – 09:00	High	12:40	06:24	15-15°C; light rain; wind SE 2-3; visibility >3 km
	09:00 – 15:00	Intertidal (ebbing)			15°C; dry; wind SE 1; visibility >3 km
10 October	07:30 – 09:30	High	12:37	06:12	14°C; showers; wind NW 2-3; visibility >3 km
	09:30 – 15:30	Intertidal (ebbing)			14°C; dry; NW 3-4; visibility >3 km
24 October	09:30 – 15:30	Intertidal (flowing)	12:03	18:09	14-16°C; dry; wind SW 2-5; visibility >3 km
	15:30 – 17:30	High			14°C; dry; SW 5; visibility >3 km
14 November	08:00 – 14:00	Intertidal (flowing)	16:46	12:57	12°C; mostly dry with one shower; wind NW 2; visibility >3 km
	14:00 – 16:00	High			12°C; dry; wind NW 2; visibility >3 km
27 November	08:00 – 10:00	High	15:57	09:47	7°C; dry; wind NW 4; visibility >3 km
	10:00 – 16:00	Intertidal (ebbing)			6-7°C; wind NW 4-5, occasional showers; visibility >3 km
7 December	08:00 – 10:00	High	12:12	05:57	8°C; dry; wind SW 5-6; visibility >3 km
	10:00 – 16:00	Intertidal (ebbing)			7-9°C; dry, wind SW 5-6; visibility >3 km
19 December	08:00 – 14:00	Intertidal (flowing)	10:13	16:14	9-11°C; dry; wind SW 3-4; visibility >3 km
	14:00 – 16:00	High			9°C; dry; wind SW 3-4; visibility >3 km
2018					
8 January	08:00 – 10:00	High	14:27	08:23	3-5°C; dry; wind SE 1-2; visibility >3 km
	10:00 – 16:00	Intertidal (ebbing)			5-7°C; dry; wind SE 2-6; visibility >3 km
20 January	08:00 – 14:00	intertidal (flowing)	10:29	16:30	3-4°C; dry; wind SW 2; visibility >3 km
	14:00 – 16:00	High			6°C; dry; wind SW 2; visibility >3 km
1 February	08:00 – 14:00	Intertidal (flowing)	10:19	16:15	4-5°C, dry, wind NW 5-6; visibility >3 km

Date	Count Time	Tidal Range	Low Tide ¹	High Tide ¹	Weather Conditions ²
	14:00 – 16:00	High			7°C; dry; wind NW 5-6; visibility >3 km
19 February	07:30 – 09:30	High	11:52	05:46	8°C; light rain; wind SW 1-2; visibility <2 km
	09:30 – 15:30	Intertidal (ebbing)			8-9°C; light rain; wind SW 1; visibility <1 km up to <3 km
8 March	07:00 – 09:00	High	12:00	05:50	3°C; heavy rain from 08:20hrs turning to sleet/snow by 09:00hrs; wind NE 1-2; visibility >3 km
	09:00 – 15:00	Intertidal (ebbing)			2-7°C; heavy rain and sleet 09:00-11:15hrs then dry; wind NE 1-2, N3, NW3; visibility >3 km
19 March	08:30 – 14:30	Intertidal (flowing)	10:56	16:49	6-8°C; dry; wind NE 6; visibility >3 km
	14:30 – 16:30	High			8°C; dry; wind NE 5; visibility >3 km
3 April	07:00 – 09:00	High	11:33	06:19	6-10°C; rain showers; wind SE 2; visibility >3 km
	09:00 – 15:00	Intertidal (ebbing)			10-12°C, rain showers to 12:00hrs then dry; wind SE 2; visibility >3 km
10 April	07:00 – 09:00	High	16:42	10:56	6°C; heavy rain; wind NE 3-4; visibility <3 km
	09:00 – 15:00	Intertidal (ebbing)			6°C, heavy rain to 12:00hrs then dry; wind NE 4-5; visibility <3 km
25 May	06:30 – 12:30	Intertidal (flowing)	06:31	12:33	9-12°C; dry; wind N 5; visibility >3 km
	12:30 – 14:30	High			12°C; occasional showers; wind N 5; visibility >3 km
19 June	06:15 – 08:15	High	14:13	07:39	14-17°C; dry; wind W 2; visibility >3 km
	08:15 – 14:15	Intertidal (ebbing)			17-22°C; dry; wind NW 3 then W3
27 July	06:30 – 12:30	Intertidal (flowing)	09:36	15:43	16-23°C, rain for most of survey; wind SE 1-2; visibility >3 km
	12:30 – 14:30	High			26-28°C; dry; wind S 2; visibility >3 km
10 August	06:15 – 12:15	Intertidal (flowing)	08:40	14:40	12-21°C; mostly dry, brief spell of showers; wind SW 3; visibility >3 km
	12:15 – 14:15	High			16-21°C; heavy rain showers; wind SW3; visibility >3 km
20 August	08:45 – 10:45	High	17:16	10:49	18°C; dry; wind NW 1-2; visibility >3 km
	10:45 – 16:45	Intertidal (ebbing)			18-19°C; dry; wind SE 2-3; visibility >3 km

¹ Low and High Tides for River Tees Mouth.

² Conditions summarised for the entire count period. Wind direction and speed recorded using 16-point compass and Beaufort scale, respectively.

Annex 2: WeBS Core Count Summary Data for Notified Ornithological Features of Teesmouth and Cleveland Coast Ramsar, SPA and SSSI (Source: BTO Webs)

Peak monthly counts highlighted **orange** show the month with the highest peak count recorded over 5 years for each species; Cormorant is a former SPA species that was de-listed as a notified feature upon revisions to Teesmouth and Cleveland Coast SPA Ramsar boundaries, classified in January 2020).

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Coatham Sands North

Common name	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Teal	<i>Anas crecca</i>	0	0	105	25	0	7	0	0	0	0	0	0
Cormorant	<i>Phalacrocorax carbo</i>	6	3	2	4	16	16	6	5	6	5	3	12
Ringed Plover	<i>Charadrius hiaticula</i>	20	88	123	3	1	0	1	8	14	29	115	13
Knot	<i>Calidris canutus</i>	0	2	19	50	100	6	31	15	0	0	0	3
Sanderling	<i>Calidris alba</i>	35	150	75	128	54	76	144	182	90	279	165	49
Redshank	<i>Tringa totanus</i>	4	11	1	214	135	290	5	43	45	141	0	0
Turnstone	<i>Arenaria interpres</i>	15	20	29	70	90	100	125	25	58	21	50	2
Purple Sandpiper	<i>Calidris maritima</i>	0	0	0	1	7	22	26	22	0	10	0	0
Little Tern	<i>Sterna albifrons</i>	75	4	0	0	0	0	0	0	0	0	2	6
Sandwich Tern	<i>Sterna sandvicensis</i>	16	110	14	4	0	0	0	0	0	3	18	45
Common Tern	<i>Sterna hirundo</i>	80	110	1	0	0	0	0	0	0	0	4	53

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Redcar and Coatham Sands South

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Shelduck	<i>Tadorna tadorna</i>	0	0	0	0	0	0	0	0	0	0	0	2
Teal	<i>Anas crecca</i>	0	0	1	0	0	0	0	0	0	0	0	0
Cormorant	<i>Phalacrocorax carbo</i>	3	3	4	12	9	3	15	5	2	9	2	2
Knot	<i>Calidris canutus</i>	0	20	0	6	1	0	0	0	0	15	0	0
Sanderling	<i>Calidris alba</i>	1	36	140	34	102	123	180	100	195	73	80	0
Redshank	<i>Tringa totanus</i>	0	0	1	2	35	136	220	210	159	47	0	0
Turnstone	<i>Arenaria interpres</i>	7	3	5	107	38	37	65	85	27	109	8	0
Purple Sandpiper	<i>Calidris maritima</i>	0	0	0	0	0	0	0	0	0	2	0	0
Sandwich Tern	<i>Sterna sandvicensis</i>	30	12	22	2	0	0	0	0	0	2	8	12
Common Tern	<i>Sterna hirundo</i>	20	115	0	0	0	0	0	0	0	0	0	16

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Quarries and Lagoons

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Shelduck	<i>Tadorna tadorna</i>	2	2	0	0	0	0	0	2	4	11	8	4
Teal	<i>Anas crecca</i>	0	0	0	2	0	10	0	0	0	2	0	0
Lapwing	<i>Vanellus vanellus</i>	52	61	28	1	10	1	25	34	4	0	2	5
Redshank	<i>Tringa totanus</i>	0	0	3	110	77	85	175	180	71	35	0	0

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Bran Sands North

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Shelduck	<i>Tadorna tadorna</i>	4	2	0	0	0	0	3	2	4	6	6	13

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Teal	<i>Anas crecca</i>	0	0	3	2	21	6	6	1	0	0	0	0
Cormorant	<i>Phalacrocorax carbo</i>	69	117	11	39	91	50	51	10	15	23	29	32
Ringed Plover	<i>Charadrius hiaticula</i>	11	30	21	0	0	2	0	16	0	6	130	23
Lapwing	<i>Vanellus vanellus</i>	10	150	2	47	320	740	700	350	22	0	0	1
Knot	<i>Calidris canutus</i>	0	27	28	30	550	146	64	240	246	36	0	0
Sanderling	<i>Calidris alba</i>	7	22	0	0	36	0	12	1	0	0	61	21
Redshank	<i>Tringa totanus</i>	16	77	105	90	155	214	170	65	35	73	3	0
Turnstone	<i>Arenaria interpres</i>	2	28	12	21	29	30	12	32	5	3	6	4
Sandwich Tern	<i>Sterna sandvicensis</i>	120	10	26	0	0	0	0	0	0	0	14	62
Common Tern	<i>Sterna hirundo</i>	8	41	9	0	0	0	0	0	0	0	0	6

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Bran Sands South

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Shelduck	<i>Tadorna tadorna</i>	29	29	27	24	61	43	113	124	118	86	67	44
Teal	<i>Anas crecca</i>	0	3	96	184	337	243	248	104	130	52	3	2
Shoveler	<i>Spatula clypeata</i>	0	0	0	0	0	0	0	0	0	2	0	0
Cormorant	<i>Phalacrocorax carbo</i>	43	112	59	61	53	28	67	95	44	17	19	21
Ringed Plover	<i>Charadrius hiaticula</i>	0	0	0	0	0	0	1	0	0	0	0	0
Lapwing	<i>Vanellus vanellus</i>	11	30	32	110	12	190	11	620	28	30	1	4
Knot	<i>Calidris canutus</i>	0	0	0	0	1	0	0	0	0	0	0	0
Redshank	<i>Tringa totanus</i>	27	34	73	120	115	190	180	190	160	105	4	35

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Turnstone	<i>Arenaria interpres</i>	0	6	7	11	16	11	13	11	9	11	4	1
Sandwich Tern	<i>Sterna sandvicensis</i>	4	0	4	0	0	0	0	0	0	0	17	12
Common Tern	<i>Sterna hirundo</i>	22	20	30	0	0	0	0	0	0	0	17	14

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Coatham Marsh

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Shelduck	<i>Tadorna tadorna</i>	0	0	0	0	0	0	3	2	6	4	4	0
Teal	<i>Anas crecca</i>	1	17	25	25	25	13	20	12	17	15	3	0
Shoveler	<i>Spatula clypeata</i>	0	1	1	6	13	2	2	2	9	0	0	0
Cormorant	<i>Phalacrocorax carbo</i>	1	2	1	4	4	8	4	5	7	3	0	0
Common Tern	<i>Sterna hirundo</i>	2	0	0	0	0	N/C	N/C	0	N/C	0	0	0
Ruff	<i>Calidris pugnax</i>	0	3	0	0	0	0	0	0	0	0	0	0

Five Year Peak Monthly Counts of Ramsar, SPA, pSPA and SSSI Species at Haverton Hole North (N/C denotes no count for some species)

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Shelduck	<i>Tadorna tadorna</i>	0	0	0	0	0	2	3	2	2	2	4	1
Teal	<i>Anas crecca</i>	0	37	17	38	68	160	183	68	68	40	0	0
Shoveler	<i>Spatula clypeata</i>	2	5	8	16	14	8	20	25	8	17	1	2
Cormorant	<i>Phalacrocorax carbo</i>	0	1	1	4	9	4	2	4	2	1	1	0
Redshank	<i>Tringa totanus</i>	0	0	0	0	1	1	0	2	3	0	0	1

Species	Taxonomic Name	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Common Tern	<i>Sterna hirundo</i>	3	0	0	N/C	0	N/C	0	0	0	0	1	1
Ruff	<i>Calidris pugnax</i>	0	5	1	0	0	0	0	0	0	0	0	0

Annex 3: Tees Estuary High Tide Wader Roosts (Source: INCA)

Tees Estuary High Tide Wader Roosts Map



PROJECT
NET ZERO TEESSIDE PROJECT



APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Site Boundary
 - ★ INCA Tees Estuary Roost Location

TITLE
ANNEX 3
HIGH TIDE WADER ROOST LOCATIONS (INCA)

REFERENCE
NZT_210511_OB_15A_Annex_3_v3

SHEET NUMBER
1 of 1

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