

LEGEND

Teesside A&B cable landfall envelope

Teesside A&B landfall construction envelope

Teesside A&B HVDC, Open trench

Teesside A&B HVDC, HDD

Teesside A&B major horizontal directional drill entry or exit locations (2,000m²)

Teesside A&B minor horizontal directional drill entry or exit locations (1,200m²)

HDD or open trench to be confirmed

Teesside A&B cable route primary construction compound (10,000m²)

Teesside A&B intermediate construction compound (784r

Breeding Bird Survey

Breeding Bird Survey Transect 1

Birds of Conservation Concer

- No statu
- Amber
- Gree

Birds of Conservation Concern and UK BAP Species

★ Red

★ Amber

0 250

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ROJECT TITLE

DOGGER BANK TEESSIDE A & B

DRAWING TITLE

Fig 4.16: Breeding Birds Survey Transect 1 Visits 1 - 3

VER	DATE	REMARKS	Drawn	Checked
1	12/07/2013	Draft	SW/LC	SDS
2	31/07/2013	Draft	SW	SDS
5	21/02/2014	Pre-DCO submission review	SW	SDS

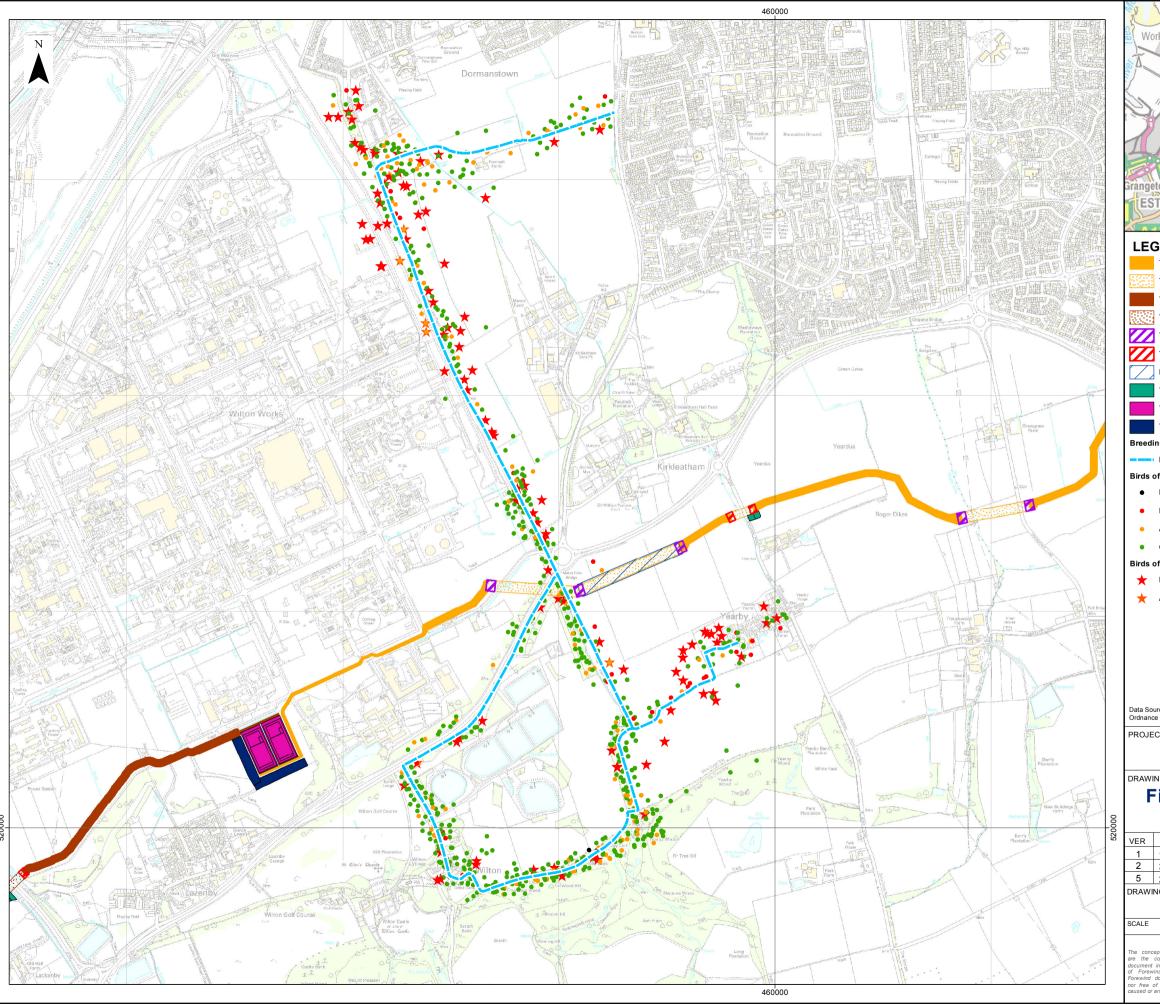
DRAWING NUM

F-ONL-MA-216

SCALE	4.45 000	PLOT SIZE	۸.0	DATUM	0000	PROJECTION	DNIO
OUNLL	1:15,000	PLOT SIZE	A3	DATION	OSGB	TROUEDHON	BNG

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LEGEND

Teesside A&B HVDC, Open trench

Teesside A&B HVDC, HDD

Teesside A&B HVAC, Open trench

Teesside A&B HVAC, HDD

Teesside A&B major horizontal directional drill entry or exit locations (2,000m²)

Teesside A&B minor horizontal directional drill entry or exit locations (1,200m²)

HDD or open trench to be confirmed

Teesside A&B intermediate construction compound (784m²)

Teesside A&B converter stations construction compounds (10,000m² per project)

Birds of Conservation Concern and UK BAP Species

★ Amber

Data Source: Ordnance Survey © Crown copyright and database right, 2014

DOGGER BANK TEESSIDE A & B

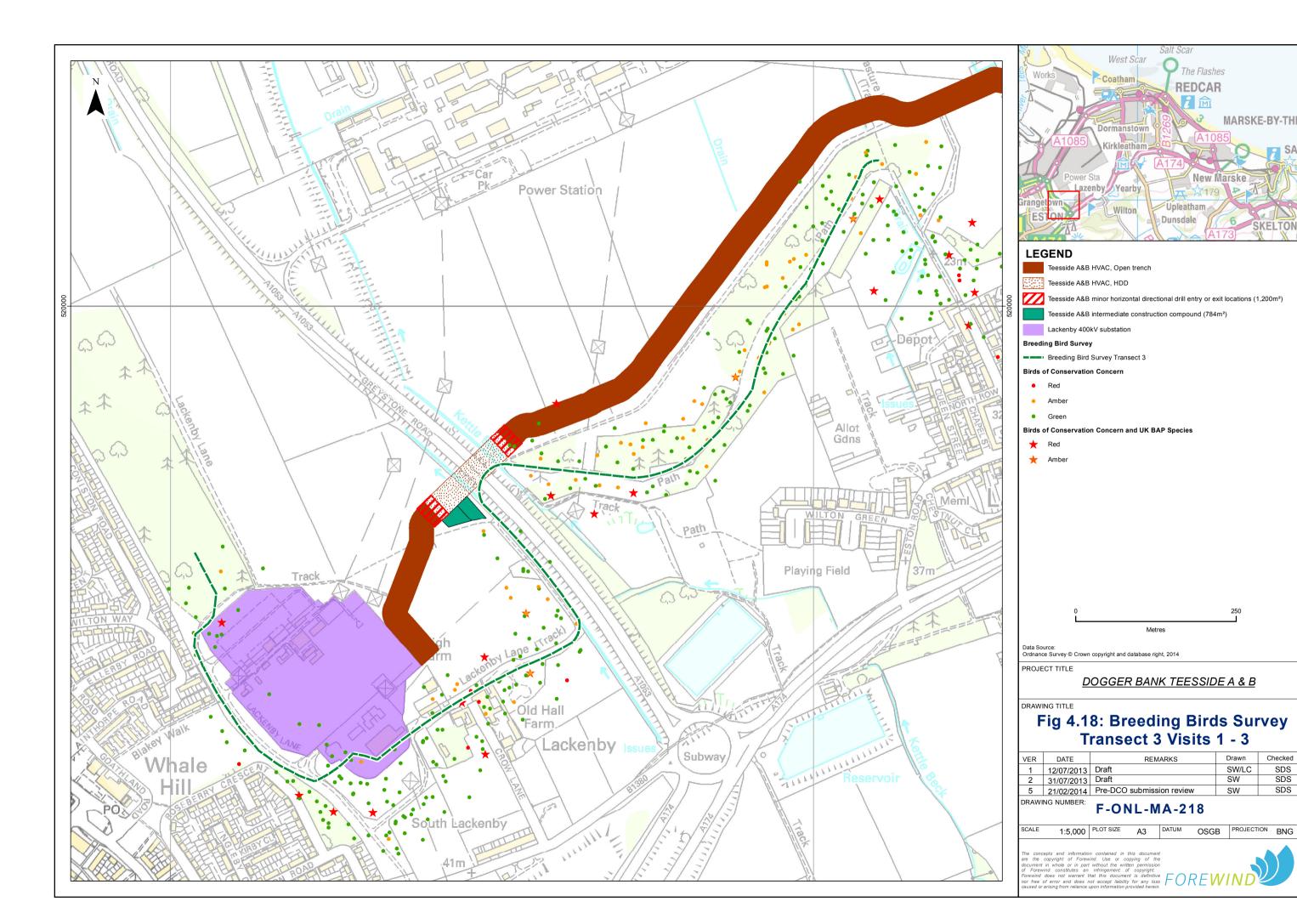
Fig 4.17: Breeding Birds Survey Transect 2 Visits 1 - 3

VER	DATE	REMARKS	Drawn	Checked
1	12/07/2013	Draft	SW/LC	SDS
2	31/07/2013	Draft	SW	SDS
5	21/02/2014	Pre-DCO submission review	SW	SDS

F-ONL-MA-217

SCALE	1:17,500	PLOT SIZE	A3	DATUM	OSGB	PROJECTION	BNG







Wintering birds

Overview

- 4.6.10 Wintering bird surveys were undertaken during the winters of 2011-2012, 2012-2013 and 2014. The results of the surveys are provided in the three technical reports: Wintering Bird Surveys November 2011 March 2012 (Peak Ecology 2013a), Autumn Passage and Wintering Birds September 2012 March 2013 (Peak Ecology 2013g) and Golden Plover and Lapwing at the Landfall (Peak Ecology 2014a). In addition, a detailed desk study assessment was undertaken specifically in relation to the golden plover and lapwing at the landfall location (Peak Ecology 2014a).
- 4.6.11 The surveys undertaken between 2011- 2012 included four survey sites to cover all potential landfall options under consideration, with each site surveyed up to eight times over the winter period. Site 2 Redcar to Marske-by-the-Sea was taken forward as the preferred area for landfall and therefore the results of only Site 2 have been discussed below.
- 4.6.12 Following refinement of the landfall location, the surveys between 2012 2013 were undertaken at two sites: Site 1 Coastal fields at the landfall (Redcar to Marske-by-the-Sea) and Site 2 inland arable fields between Yearby and Wilton. Site 1 corresponds to the same area surveyed in 2011-2012 which was referred to during that survey period as Site 2. A total of 14 surveys were undertaken on each site between September 2012 and March 2013, to include autumn passage surveys.
- 4.6.13 Following further consultation regarding the draft ES with Natural England in December 2013, an additional desk study and additional surveys were undertaken specifically for golden plover and lapwing. The surveys were undertaken between January 2014 and February 2014 at Site 1 the Coastal fields at the landfall site (Redcar to Marske-by-the-Sea).
- 4.6.14 The results of the key field survey data have been summarised and are provided on **Figure 4.19** to **Figure 4.21**. For golden plover and lapwing, a summary of the detailed desk assessment undertaken for these species in 2014 is included within the section 'Site 1 Coastal fields between Redcar and Marske-by-the-Sea'.

Field survey results

2011 – 2012 surveys of the landfall (Redcar to Marske-by-the-Sea)

4.6.15 During the 2011 - 2012 surveys of the site between Redcar and Marske-by-the-Sea, a total of 33 species were recorded during all surveys. The conservation status of the 33 species is shown in **Table 4.9**. Some species are listed on BoCC list and UKBAP and/or Schedule 1.

Table 4.9 Numerical summary of wintering bird data (2011 – 2012)

Conservation status	Site 2 – Redcar to Marske-by-the-Sea
Red listed	7 (21%)
Amber listed	17 (52%)



Conservation status	Site 2 – Redcar to Marske-by-the-Sea
Green listed	8 (24%)
Schedule 1 protected	2 (6%)
UK BAP species	7 (21%)
Feral or introduced species	1 (3%)
Total number of species	33

- 4.6.16 The inshore sea-watch surveys included reasonable numbers of bird registrations inshore on most visits and also on the beach area at low water. The beach was disturbed by walkers and birds were therefore mobile. Redthroated divers *Gavia stellata* and shag *Phalacrocorax aristotelis* were present on most visits mainly feeding inshore as were great-crested grebe *Podiceps cristatus*, razorbill *Alca torda* and guillemot *Uria aalge* and on one occasion a flock of 54 common scoters *Melanitta nigra* were present.
- 4.6.17 During surveys, a large winter flock of golden plover *Pluvialis apricaria* were recorded in November 2011 (3,500) and December 2011 (3,300). Lapwings were also present in good numbers with a flock of up to 800 recorded in November 2011. Both species were typically present in one large flock in the Grundales fields (**Figure 4.20**). This area appeared to have the shortest grass sward and crop height of the whole field area. Golden plover were not present after December, but small numbers of lapwing remained, often congregating on the adjacent school fields.