



The Sizewell C Project

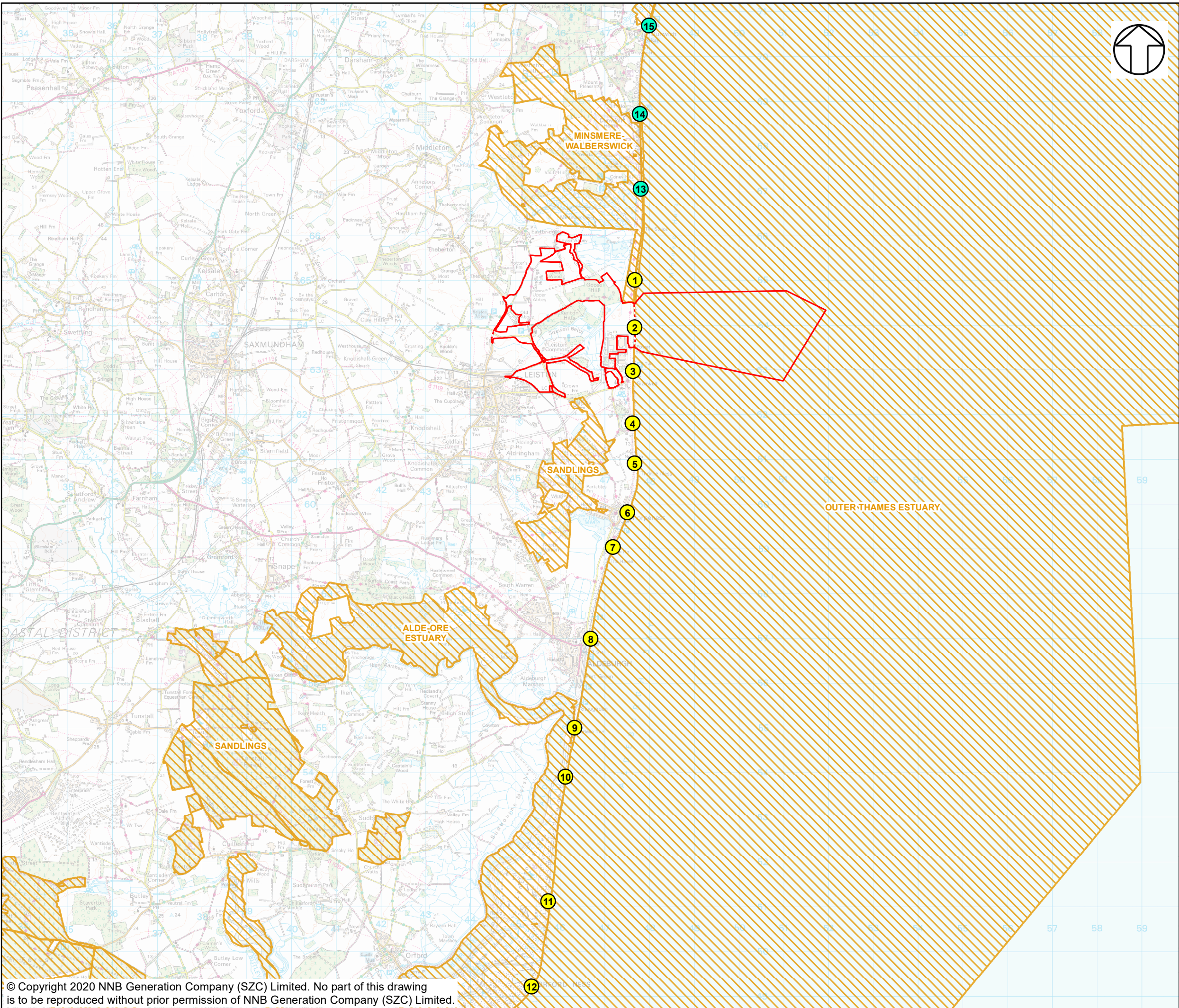
5.10 Shadow Habitats Regulations Assessment Volume 1: Screening and Appropriate Assessment Part 2 of 5

Revision: 1.0
Applicable Regulation: Regulation 5(2)(g)
PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009





NOTES

KEY

SIZEWELL C MAIN DEVELOPMENT SITE
BOUNDARY

DEMARCATION LINE

DESIGNATIONS

SPECIAL PROTECTION AREA

VANTAGE POINTS (VPs)

USED IN ALL SURVEYS (2011 - 2014)

USED IN 2013 - 2014 SURVEYS ONLY

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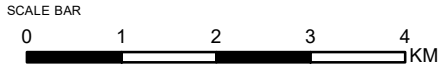


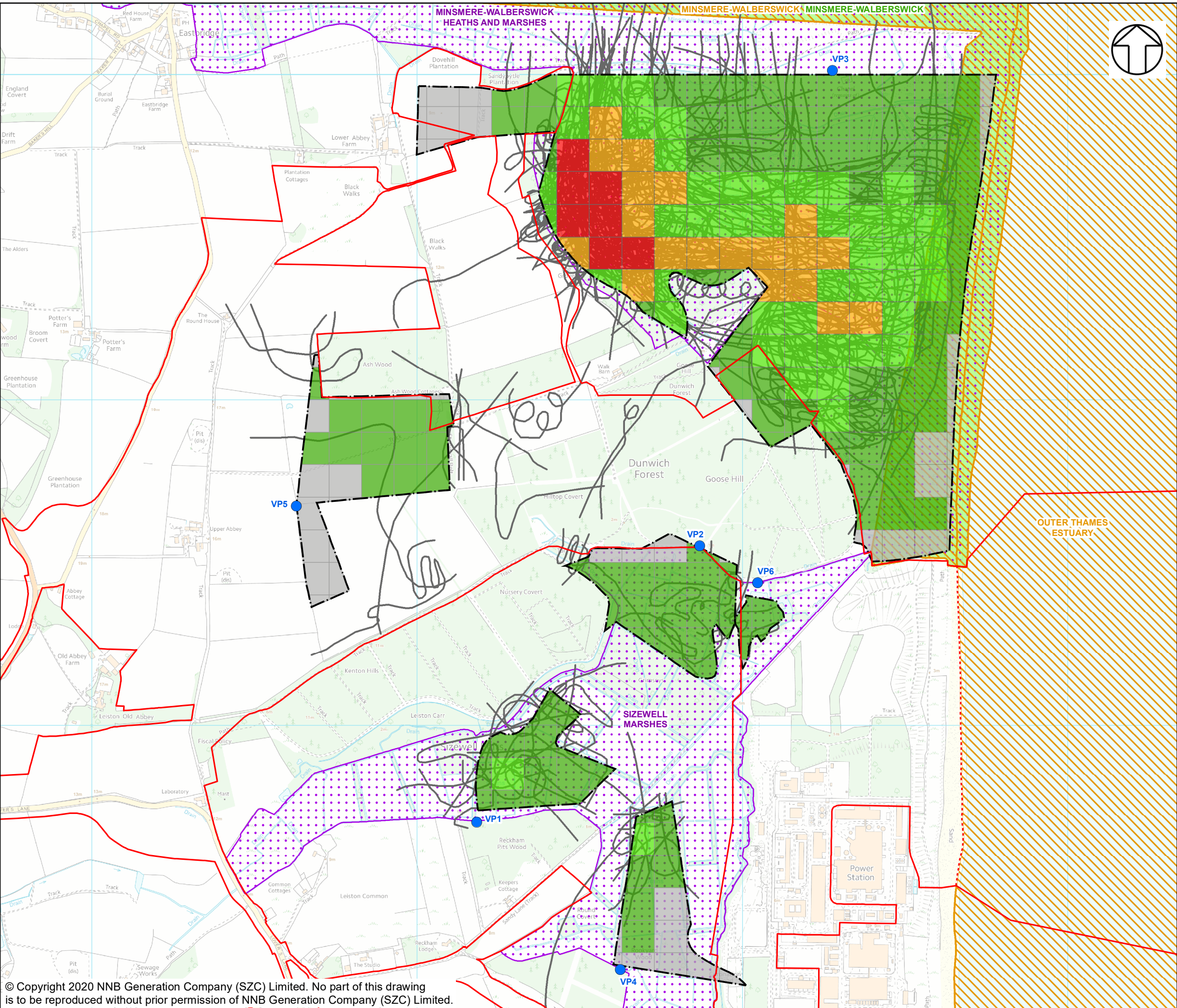
DOCUMENT:
SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS
SUBSECTION)

DRAWING TITLE:
THE LOCATION OF COASTAL VANTAGE
POINTS (VPS) USED FOR SURVEYS TO
DETERMINE THE DISTRIBUTION AND
FLIGHT ACTIVITY OF MARINE BIRDS

DRAWING NO:
FIGURE 6.1

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:80,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VANTAGE POINT (VP)
- HIGH VISIBILITY AREA
- FLIGHT LINE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR

FLIGHTS PER SURVEY HOUR

RANGE SPLIT INTO 4 EQUAL INTERVALS

- 0.011 - 0.111
- 0.112 - 0.222
- 0.223 - 0.334
- 0.335 - 0.445
- NO FLIGHTS RECORDED

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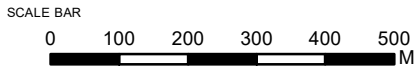


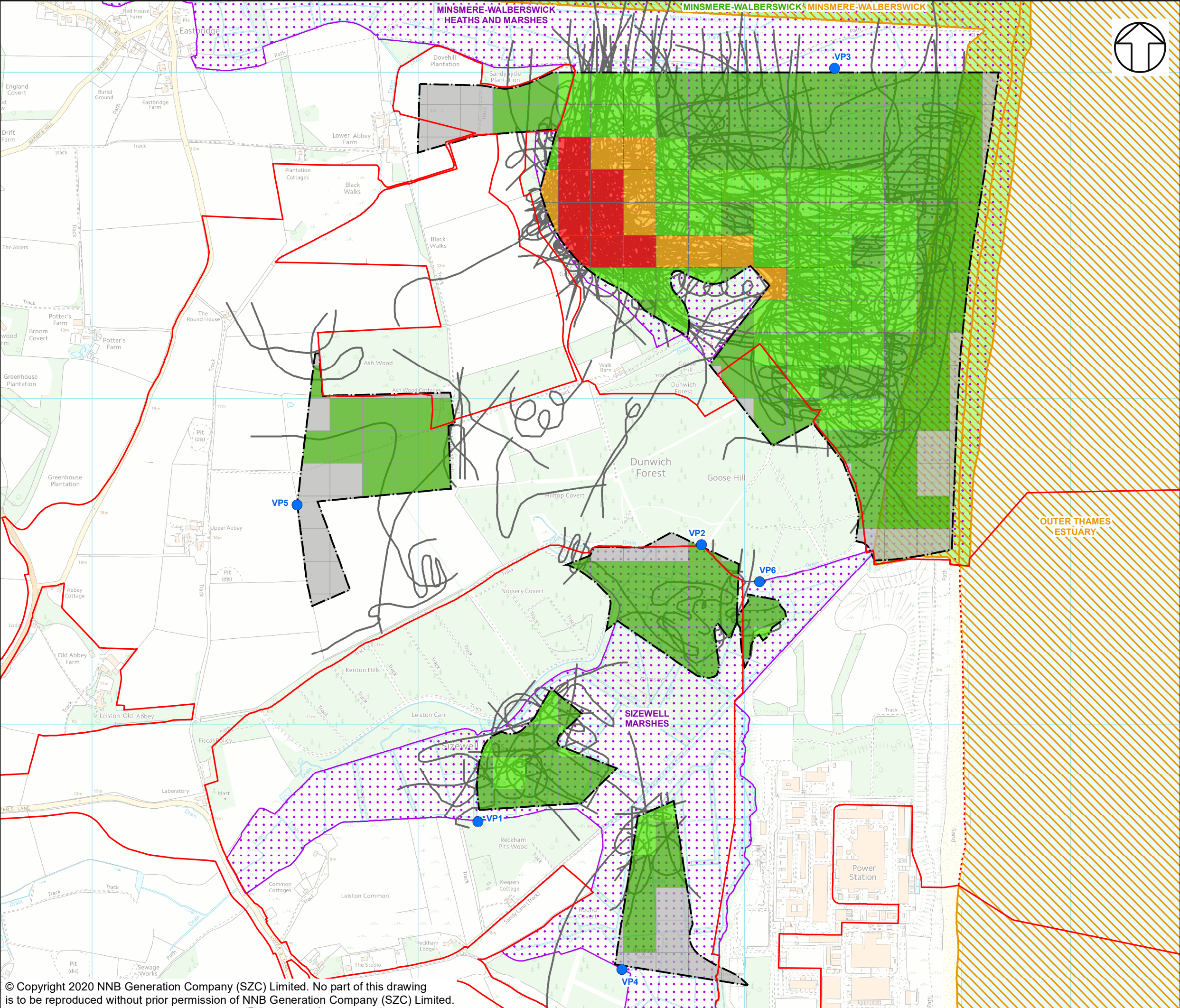
DOCUMENT:
SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
MARSH HARRIER FLIGHT ACTIVITY OVER HVAS 1 - 6 DURING APRIL TO SEPTEMBER 2014, AS MEASURED BY THE NUMBER OF FLIGHTS PER HA PER HOUR

DRAWING NO:
FIGURE 6.2

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:11,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VANTAGE POINT (VP)
- HIGH VISIBILITY AREA
- FLIGHT LINE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR

FLIGHT LENGTH (M) / HOUR / HECTARE
RANGE SPLIT INTO 4 EQUAL INTERVALS

- 0.00 - 13.56
- 13.27 - 27.11
- 27.12 - 40.66
- 40.67 - 54.22
- NO FLIGHTS RECORDED

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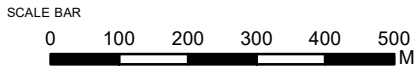


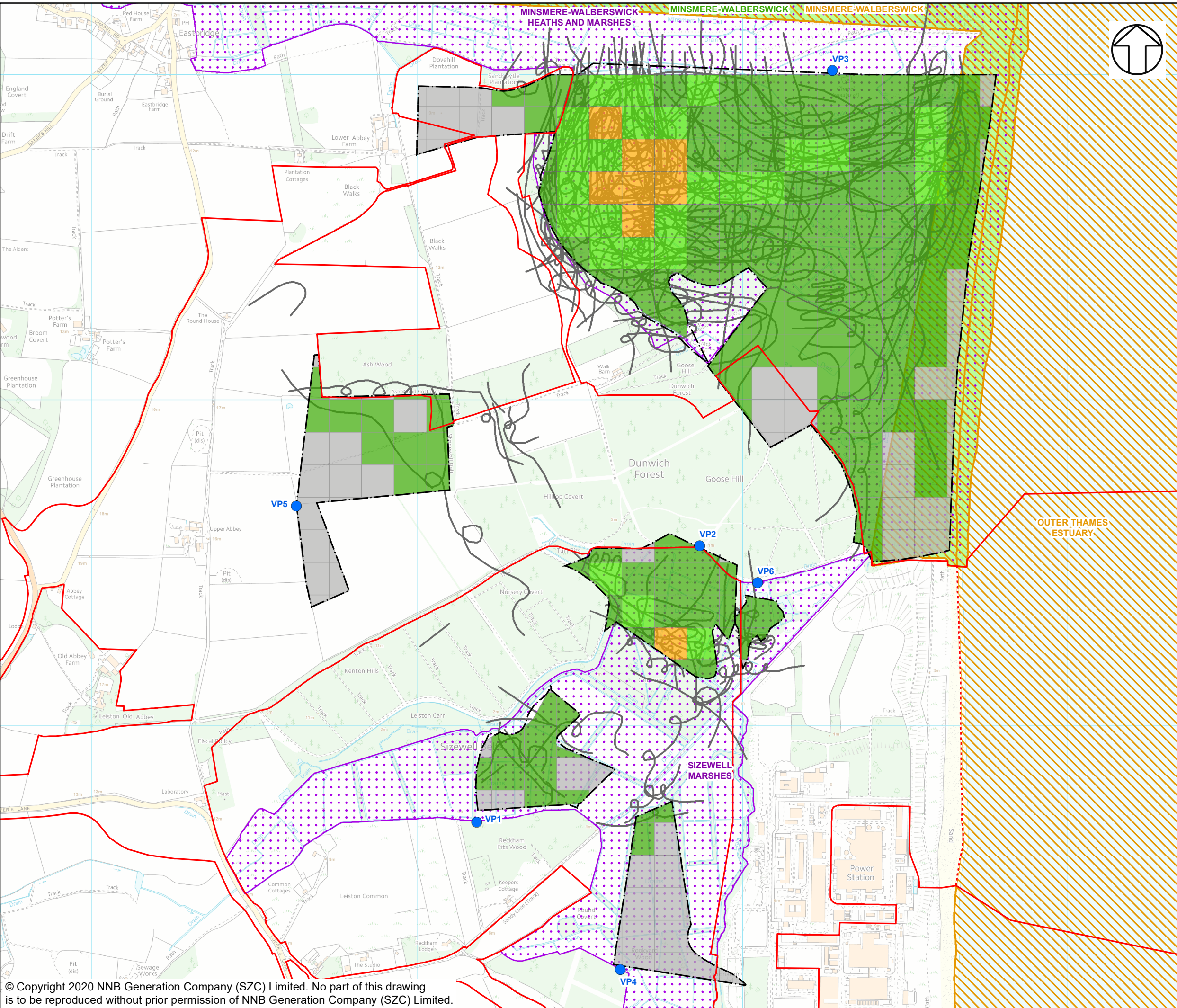
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SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
MARSH HARRIER FLIGHT ACTIVITY OVER HVAS 1 - 6 DURING APRIL TO SEPTEMBER 2014, AS MEASURED BY FLIGHT PATH LENGTH PER HA PER HOUR

DRAWING NO:
FIGURE 6.3

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:11,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VANTAGE POINT (VP)
- HIGH VISIBILITY AREA
- FLIGHT LINE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR

FLIGHT LENGTH (M) / HOUR / HECTARE

RANGE SPLIT BY 2014 SUMMER SURVEY

- 0.22 - 13.56
- 13.57 - 23.14
- 23.15 - 40.66
- NO FLIGHTS RECORDED

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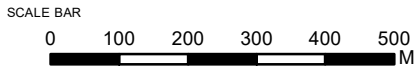


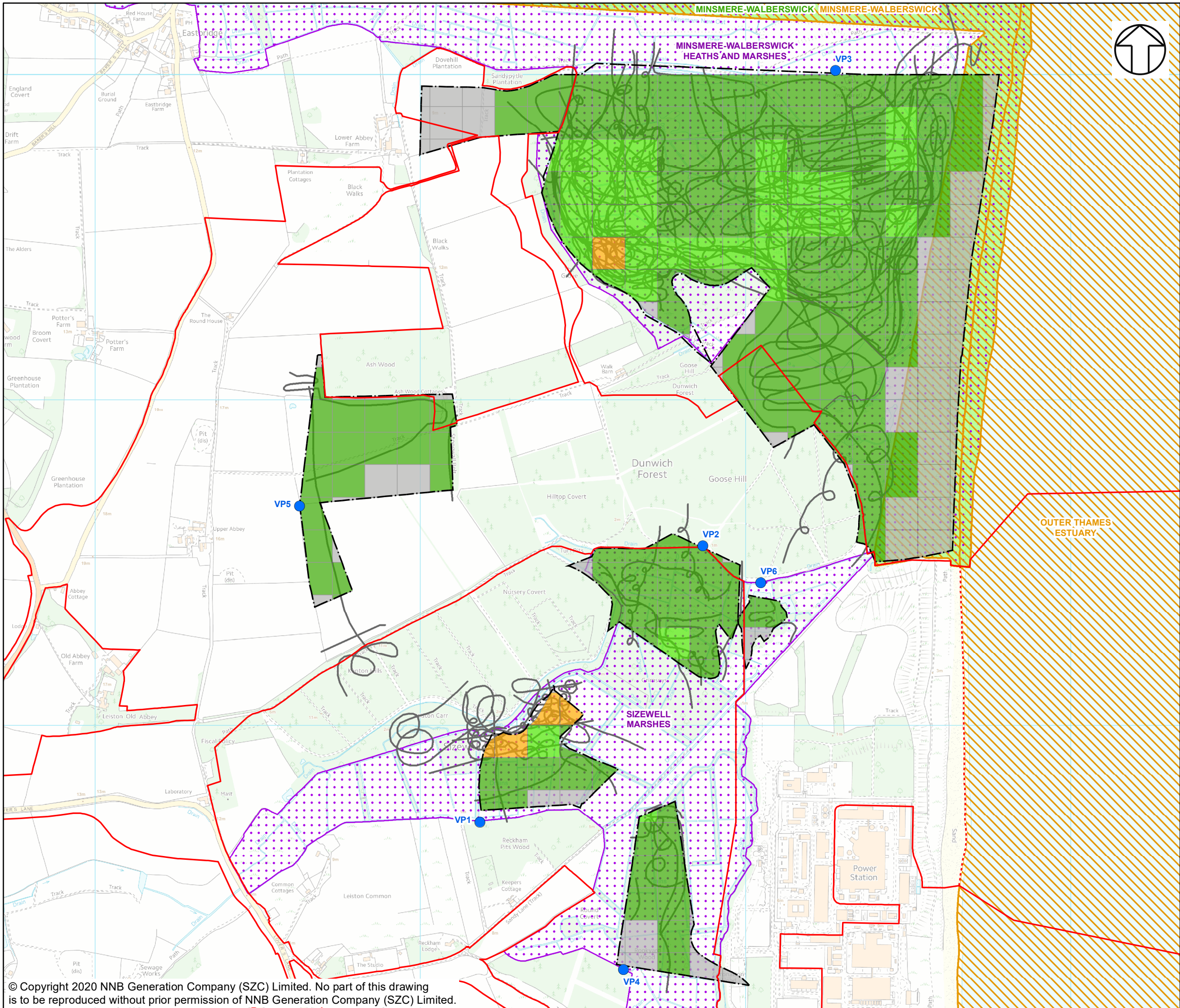
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SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
MARSH HARRIER FLIGHT ACTIVITY OVER HVAS
1 - 6 DURING APRIL TO SEPTEMBER 2015, AS
MEASURED BY FLIGHT PATH LENGTH PER HA
PER HOUR

DRAWING NO:
FIGURE 6.4

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:11,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VANTAGE POINT (VP)
- HIGH VISIBILITY AREA
- FLIGHT LINE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR

FLIGHT LENGTH (M) / HOUR / HECTARE

RANGE SPLIT BY 2014 SUMMER SURVEY

- 0.22 - 13.56
- 13.57 - 23.14
- 23.15 - 40.66
- NO FLIGHTS RECORDED

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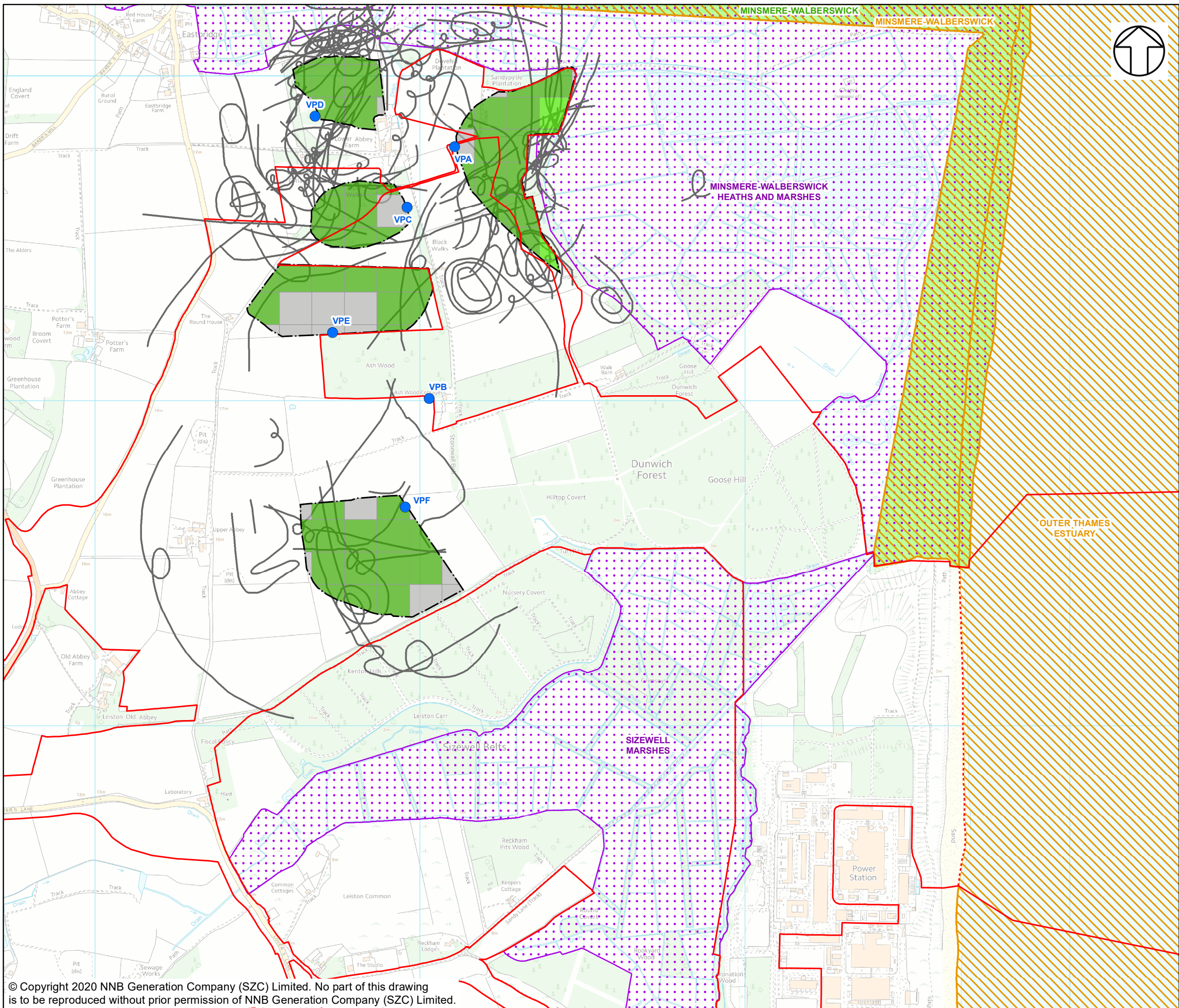
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SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
MARSH HARRIER FLIGHT ACTIVITY OVER HVAS 1 - 6 DURING APRIL TO SEPTEMBER 2016, AS MEASURED BY FLIGHT PATH LENGTH PER HA PER HOUR

DRAWING NO:
FIGURE 6.5

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:11,000 @A3

SCALE BAR
0 100 200 300 400 500 M



NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VANTAGE POINT (VP)
- HIGH VISIBILITY AREA
- FLIGHT LINE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR

FLIGHT LENGTH (M) / HOUR / HECTARE

RANGE SPLIT BY 2014 SUMMER SURVEY

- 0.07 - 13.56
- 13.57 - 27.11
- NO FLIGHTS RECORDED

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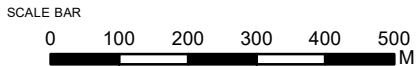


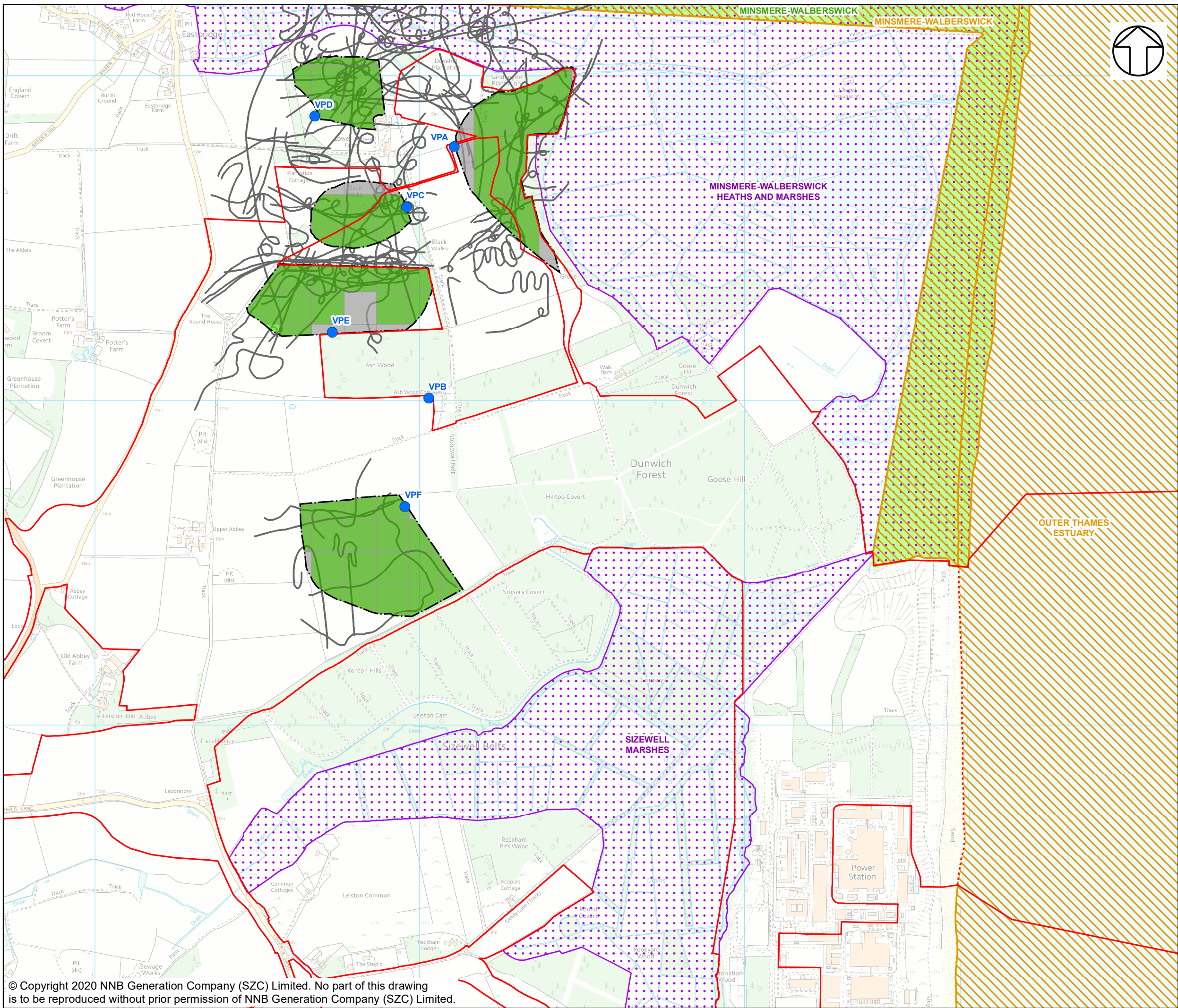
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SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
MARSH HARRIER FLIGHT ACTIVITY OVER HVAS A, C, D, E AND F (AGRICULTURAL HABITATS) DURING APRIL TO SEPTEMBER 2015, AS MEASURED BY FLIGHT PATH LENGTH PER HA PER HOUR

DRAWING NO:
FIGURE 6.6

DATE: JAN 2020
DRAWN: F.C.
SCALE: 1:11,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VANTAGE POINT (VP)
- HIGH VISIBILITY AREA
- FLIGHT LINE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR

FLIGHT LENGTH (M) / HOUR / HECTARE

RANGE SPLIT BY 2014 SUMMER SURVEY

- 0.36 - 13.56
- 13.57 - 27.11
- NO FLIGHTS RECORDED

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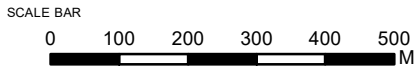


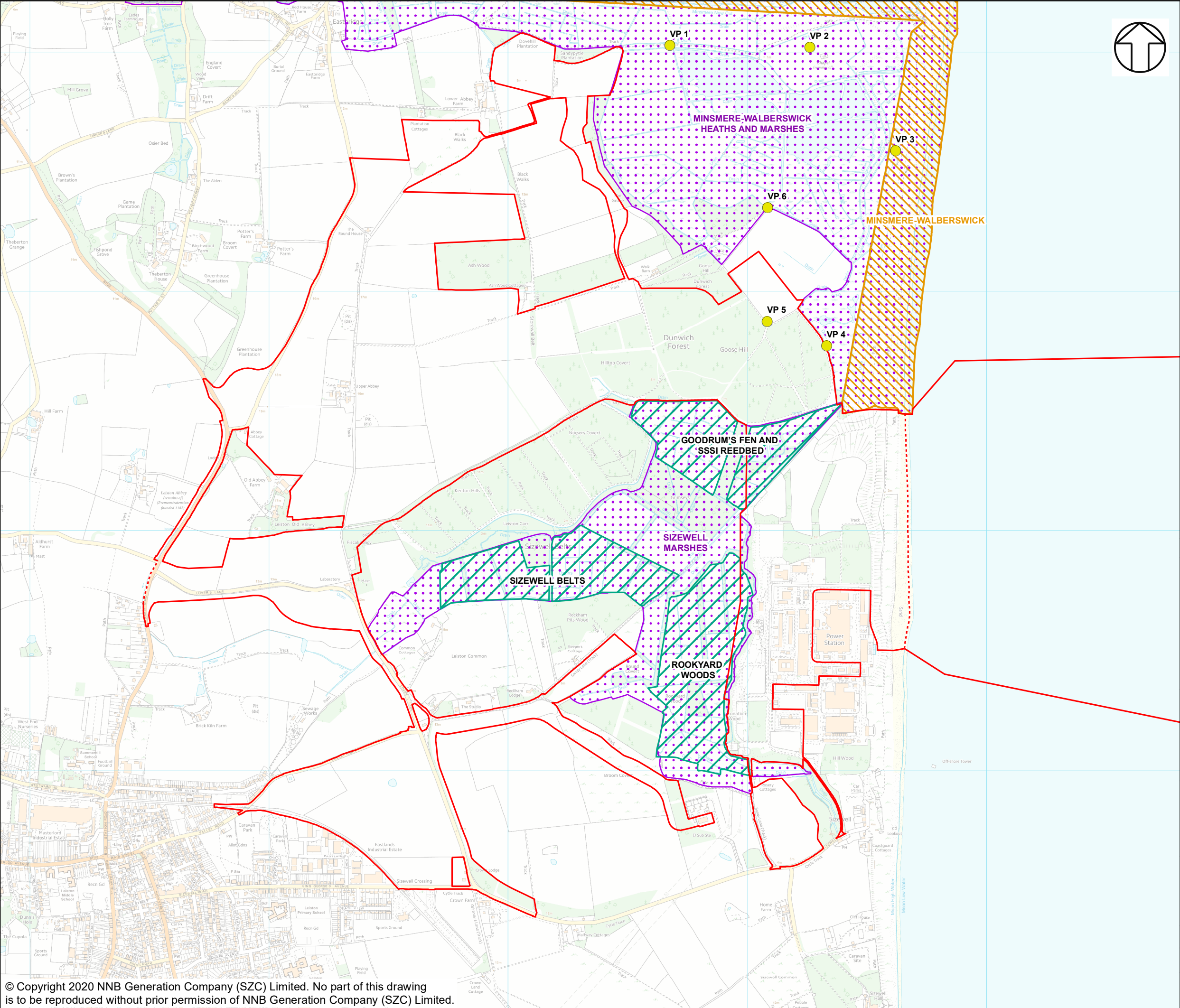
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SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
MARSH HARRIER FLIGHT ACTIVITY OVER HVAS A, C, D, E AND F (AGRICULTURAL HABITATS) DURING APRIL TO SEPTEMBER 2016, AS MEASURED BY FLIGHT PATH LENGTH PER HA PER HOUR

DRAWING NO:
FIGURE 6.7

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:11,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VP LOCATIONS FOR WINTER WATERBIRD SURVEYS OF MINSMERE SOUTH LEVELS
- SIZEWELL MARSHES WINTER WATERBIRD SURVEY AREA

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

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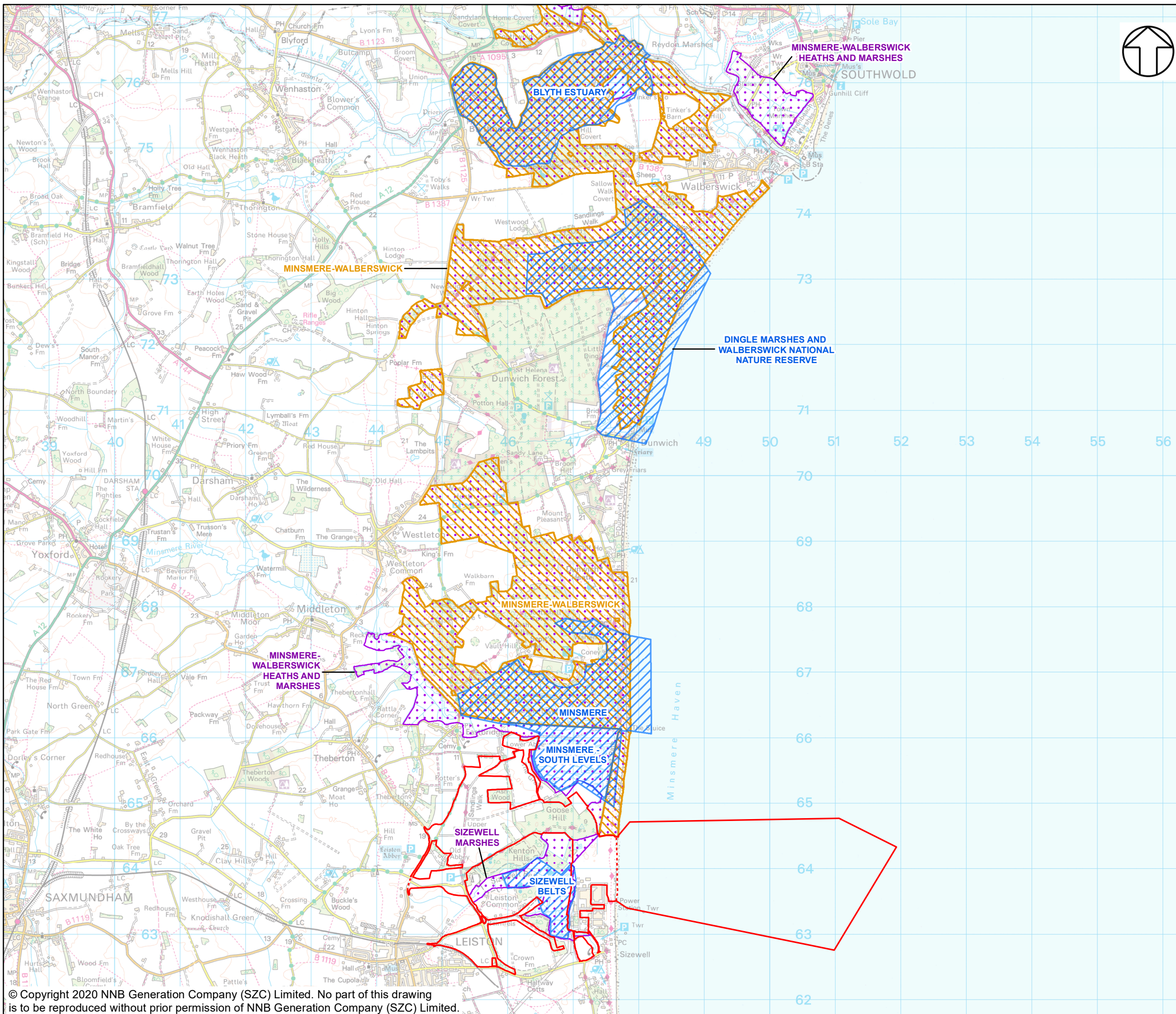
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SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
SURVEY AREA FOR THE
PROJECT-SPECIFIC WINTER
WATERBIRD SURVEYS

DRAWING NO:
FIGURE 6.8

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:15,000 @A3

SCALE BAR
0 100 200 300 400 500 M



NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- BTO WETLAND BIRD SURVEY (WeBS) COUNT SECTORS
- DESIGNATIONS
- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

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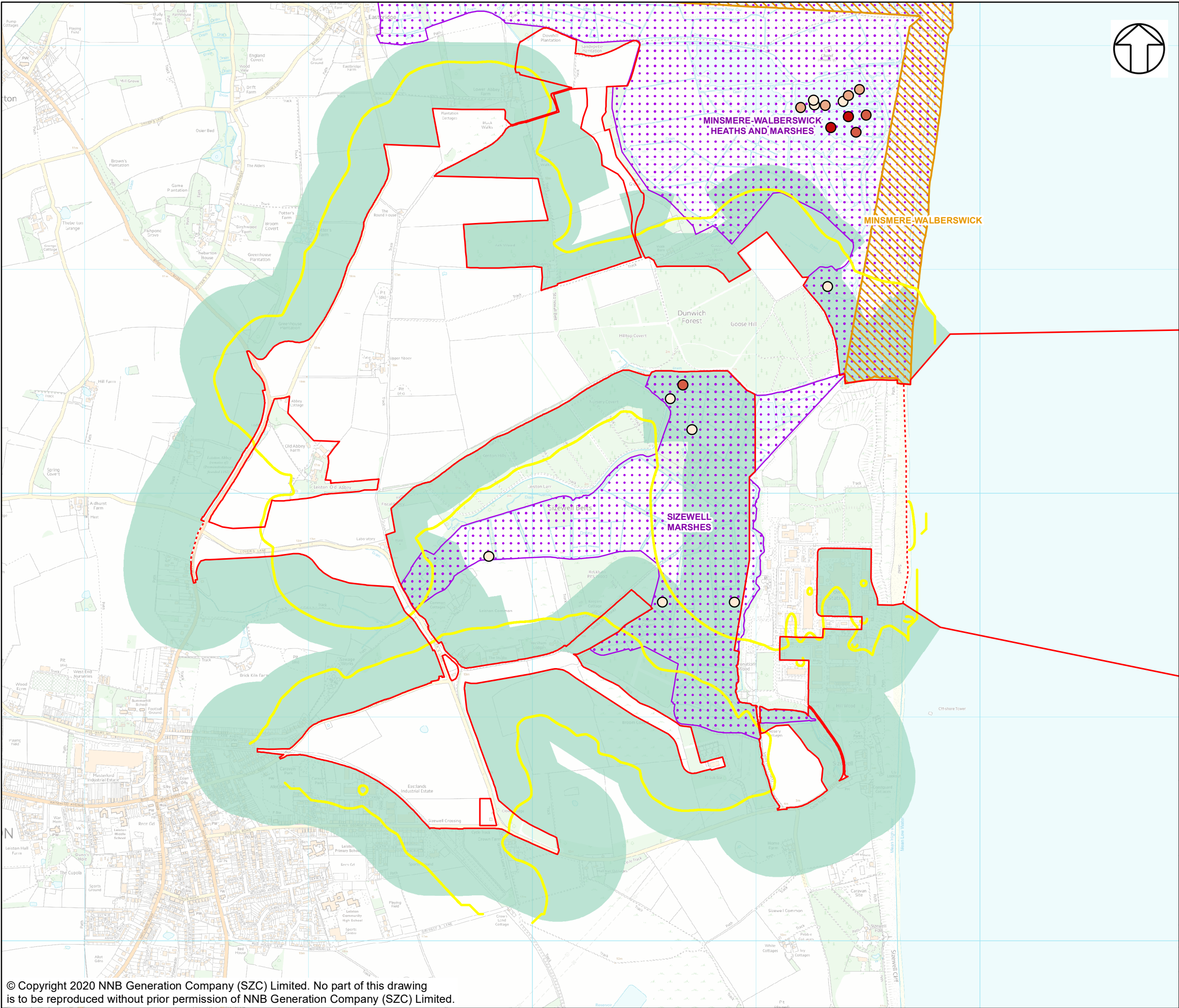
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SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
BTO WETLAND BIRD SURVEY (WeBS)
COUNT SECTORS FROM WHICH DATA ARE
USED TO INFORM THE WINTER WATERBIRD
BASELINE

DRAWING NO:
FIGURE 6.9
DATE: JAN 2020
DRAWN: F.C.
SCALE: 1:55,000 @A3
SCALE BAR
0 0.5 1 1.5 2 KM



NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VISUAL DISTURBANCE BUFFER

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

PHASE 1 - (INCLUDING 5M FENCE)

NOISE LEVEL LAMAX (DB)

70

GADWALL ABUNDANCE

- 1 - 5
- 6 - 25
- 26 - 50
- 51 - 105

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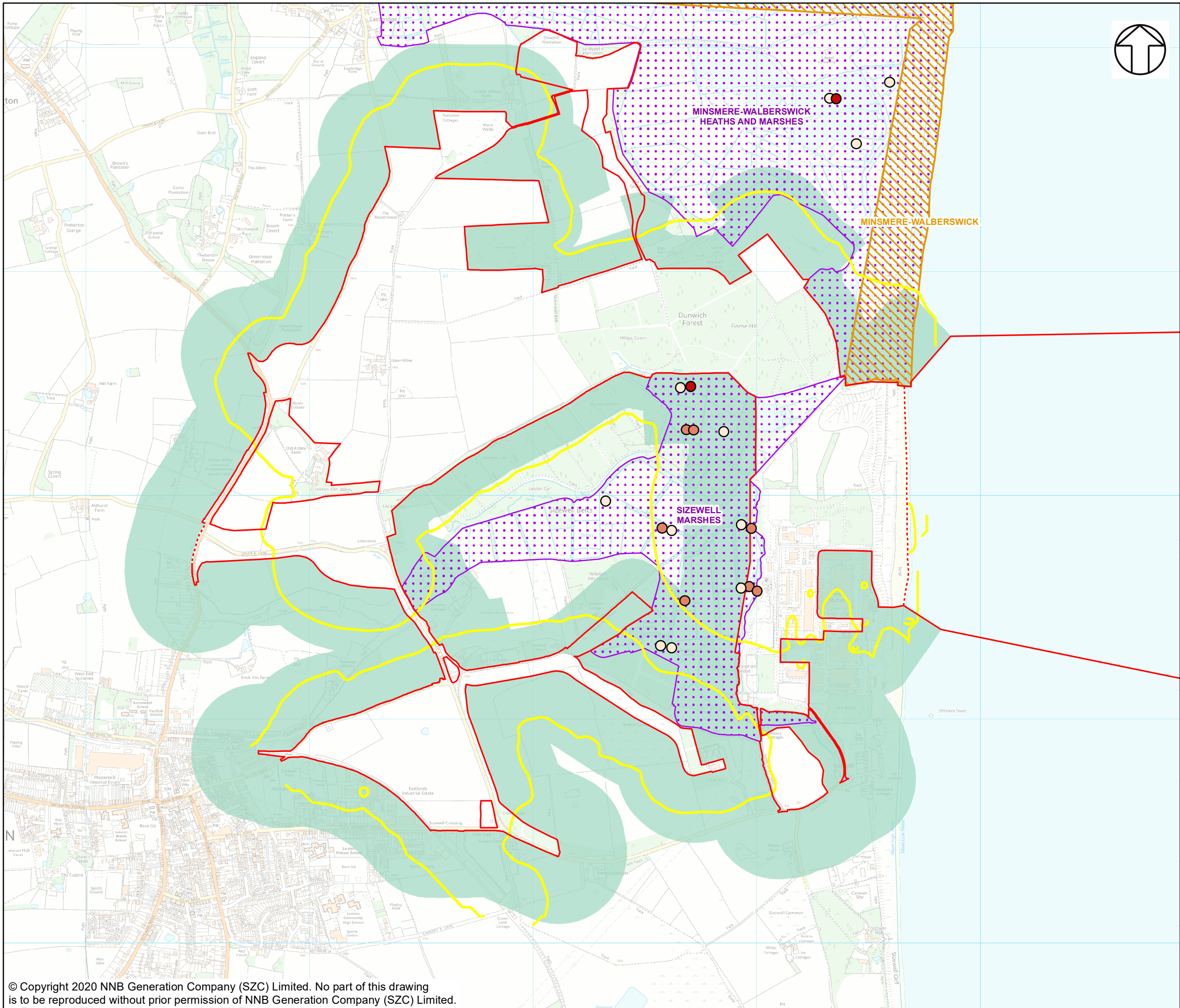
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SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
GADWALL ABUNDANCE FOR WINTER 2014/15
- ALL RECORDS

DRAWING NO:
FIGURE 6.10

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:16,000 @A3

SCALE BAR
0 100 200 300 400 500 M



NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VISUAL DISTURBANCE BUFFER

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

PHASE 1 - (INCLUDING 5M FENCE)

NOISE LEVEL LAMAX (DB)

70

GADWALL ABUNDANCE

- 1 - 5
- 6 - 25
- 26 - 50

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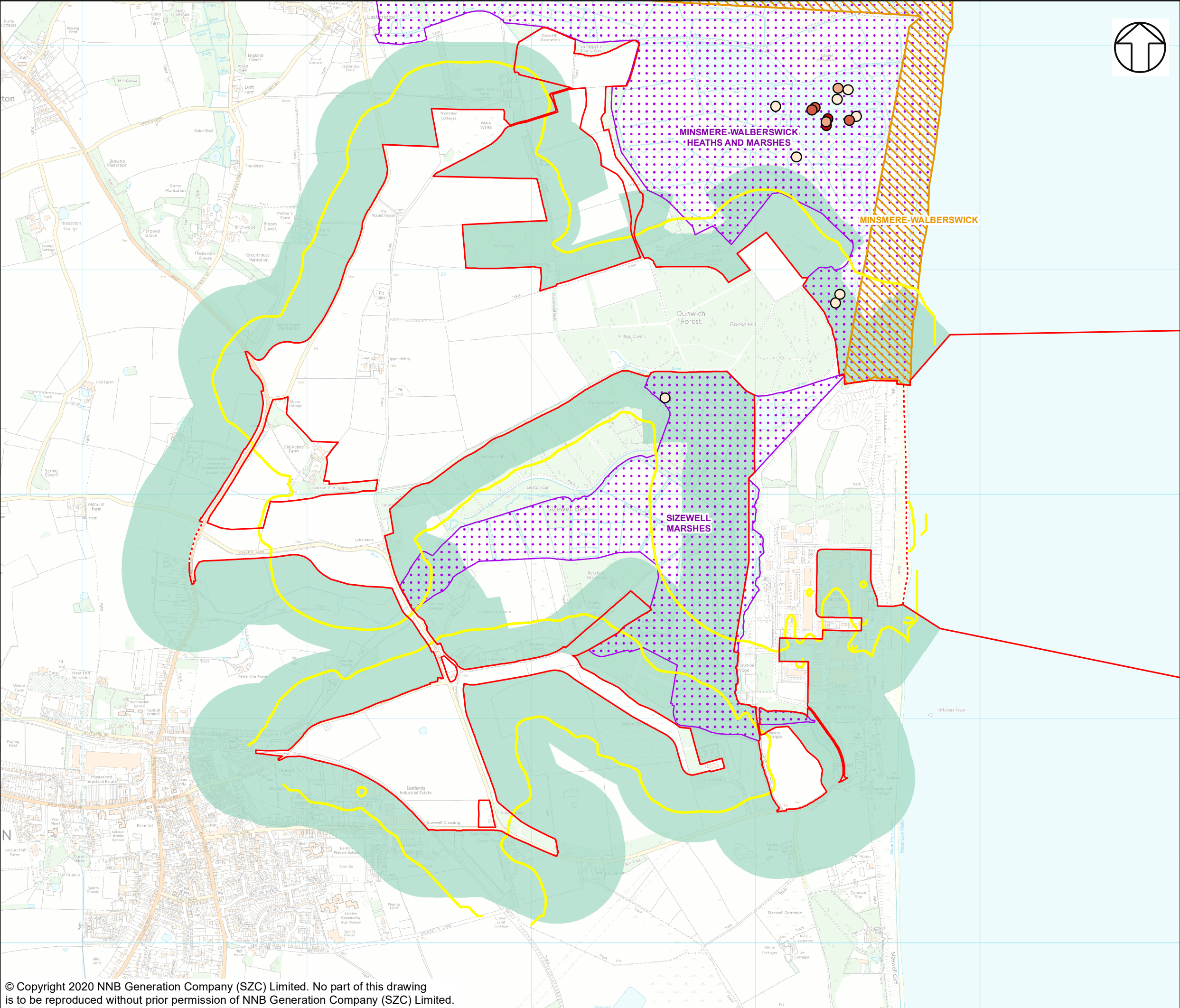
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SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
GADWALL ABUNDANCE FOR WINTER 2018/19
- ALL RECORDS

DRAWING NO:
FIGURE 6.11

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:16,000 @A3

SCALE BAR
0 100 200 300 400 500 M



NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VISUAL DISTURBANCE BUFFER

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

PHASE 1 - (INCLUDING 5M FENCE)

NOISE LEVEL LAMAX (DB)

70

SHOVELER ABUNDANCE

- 1 - 5
- 6 - 25
- 26 - 50
- 51 - 70

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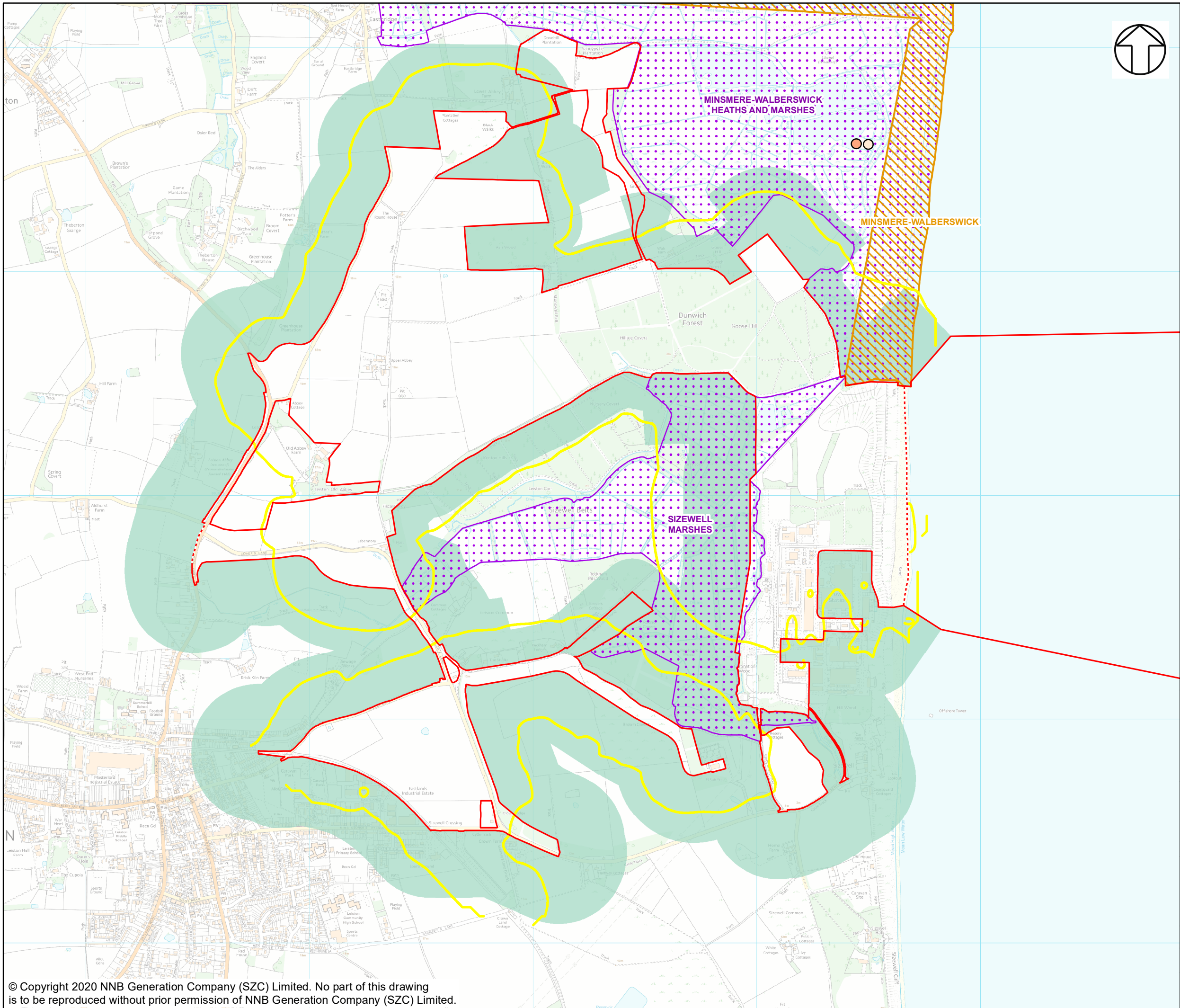
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SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS
SUBSECTION)

DRAWING TITLE:
SHOVELER ABUNDANCE FOR WINTER 2014/15
-ALL RECORDS

DRAWING NO:
FIGURE 6.12

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:16,000 @A3

SCALE BAR
0 100 200 300 400 500
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NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VISUAL DISTURBANCE BUFFER

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)

PHASE 1 - (INCLUDING 5M FENCE)

NOISE LEVEL LAMAX (DB)

70

SHOVELER ABUNDANCE

- 1 - 5
- 6 - 25

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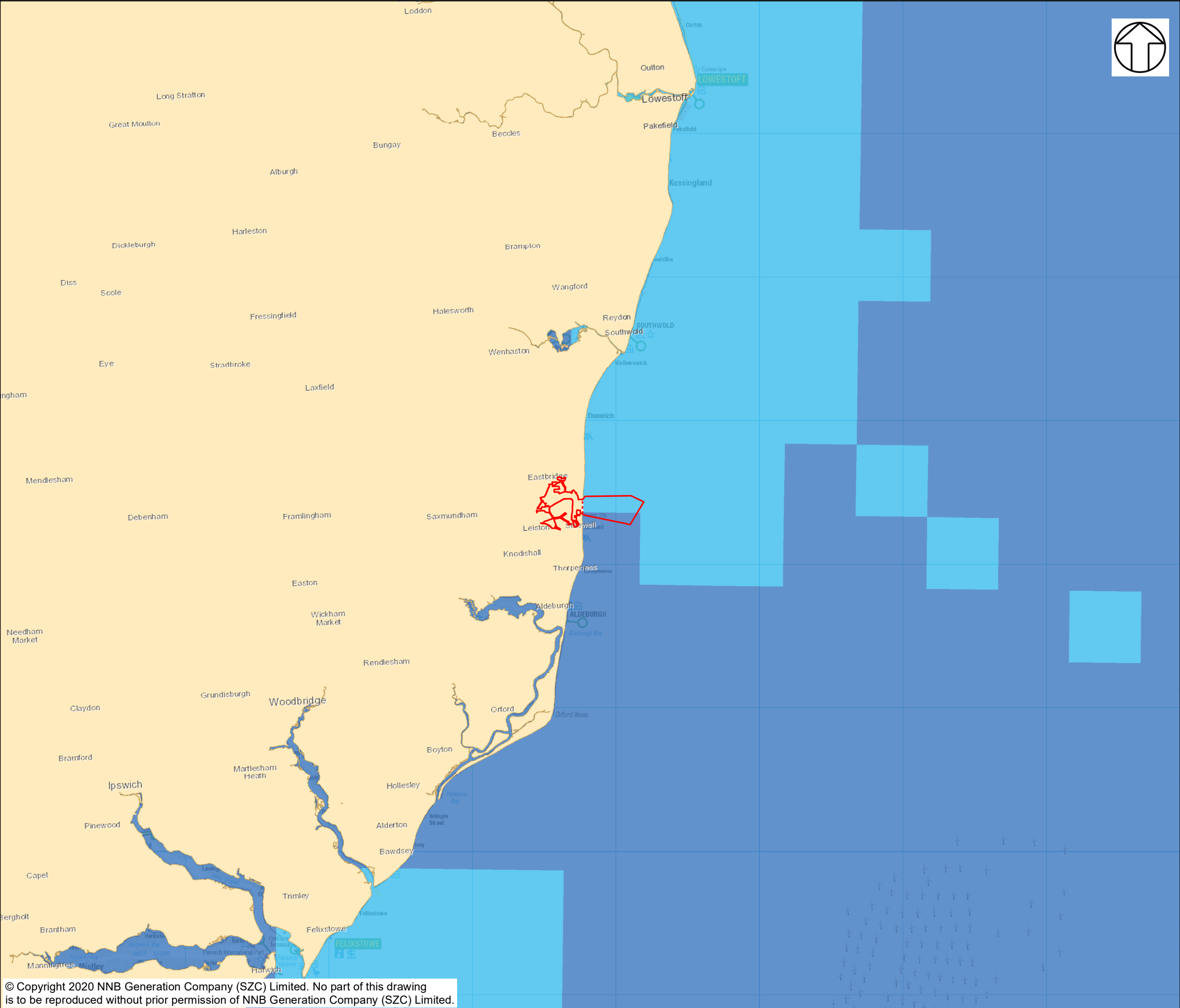
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CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS (BIRDS SUBSECTION)

DRAWING TITLE:
SHOVELER ABUNDANCE FOR WINTER 2018/19
- ALL RECORDS

DRAWING NO:
FIGURE 6.13

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:16,000 @A3

SCALE BAR
0 100 200 300 400 500 M



NOTES

KEY

SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY

DEMARCATION LINE

GREY SEAL MEAN TOTAL USAGE (RUSSEL ET AL., 2017)

0 - 1

1 - 5

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edf

ENERGY



DOCUMENT:

SIZEWELL C

SHADOW HRA REPORT

CHAPTER 6

DESCRIPTION OF BASELINE CONDITIONS (MARINE MAMMALS SECTION)

DRAWING TITLE:

GREY SEAL TOTAL USAGE WITHIN SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY AND SURROUNDING AREA (RUSSELL ET AL., 2017)

DRAWING NO:

FIGURE 6.14

DATE:

JAN 2020

DRAWN:

F.C.

SCALE:

1:250,000 @A3

SCALE BAR

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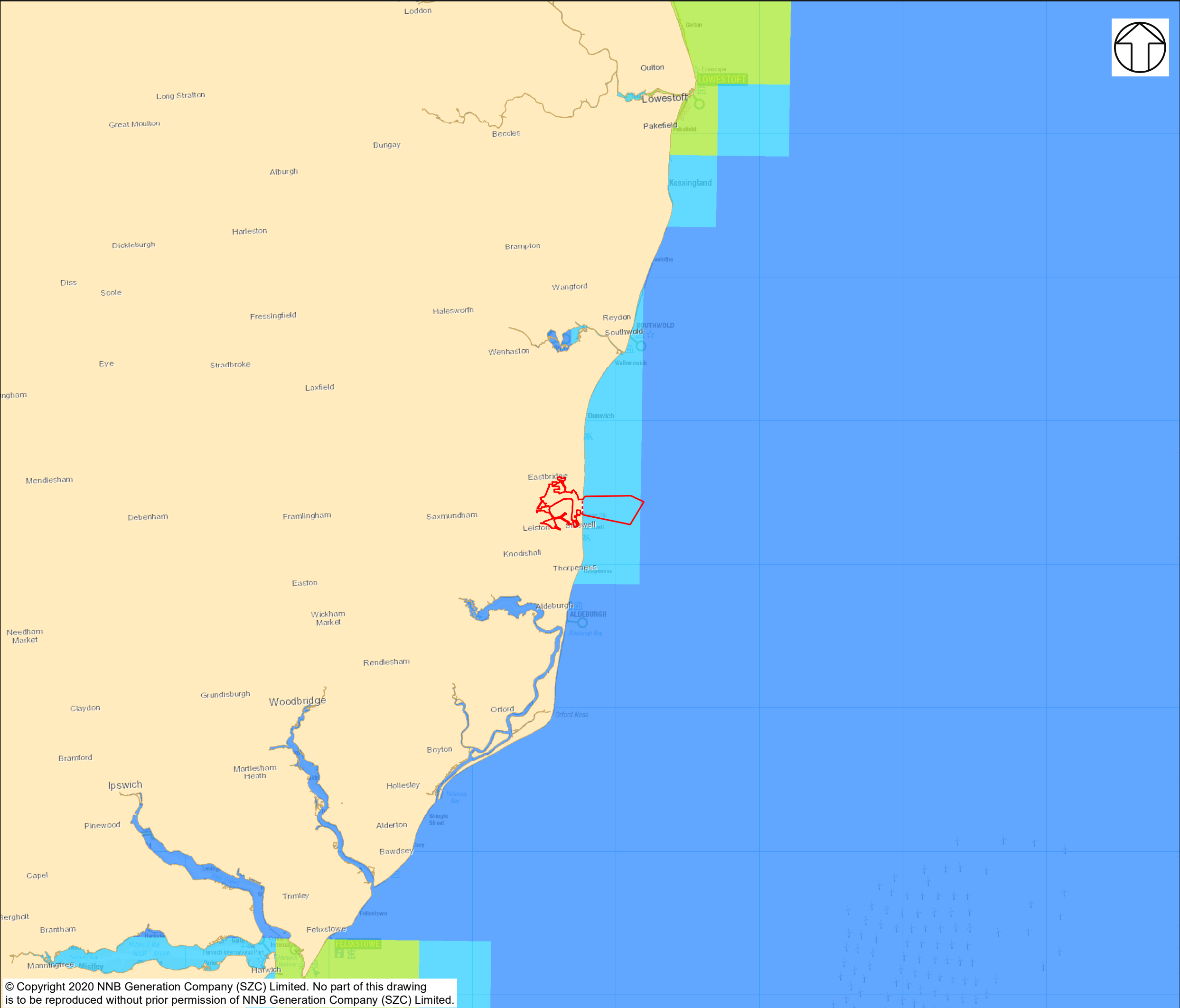
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6

8

10

KM



NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

HARBOUR SEAL MEAN TOTAL USAGE (RUSSEL ET AL, 2017)

- 0-1
- 1-5
- 5-10

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SIZEWELL C
SHADOW HRA REPORT
CHAPTER 6
DESCRIPTION OF BASELINE CONDITIONS
(MARINE MAMMALS SECTION)

DRAWING TITLE:
HARBOUR SEAL TOTAL USAGE WITHIN
SIZEWELL C MAIN DEVELOPMENT
SITE BOUNDARY AND SURROUNDING
AREA (RUSSELL ET AL., 2017)

DRAWING NO:
FIGURE 6.15

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