



The Sizewell C Project

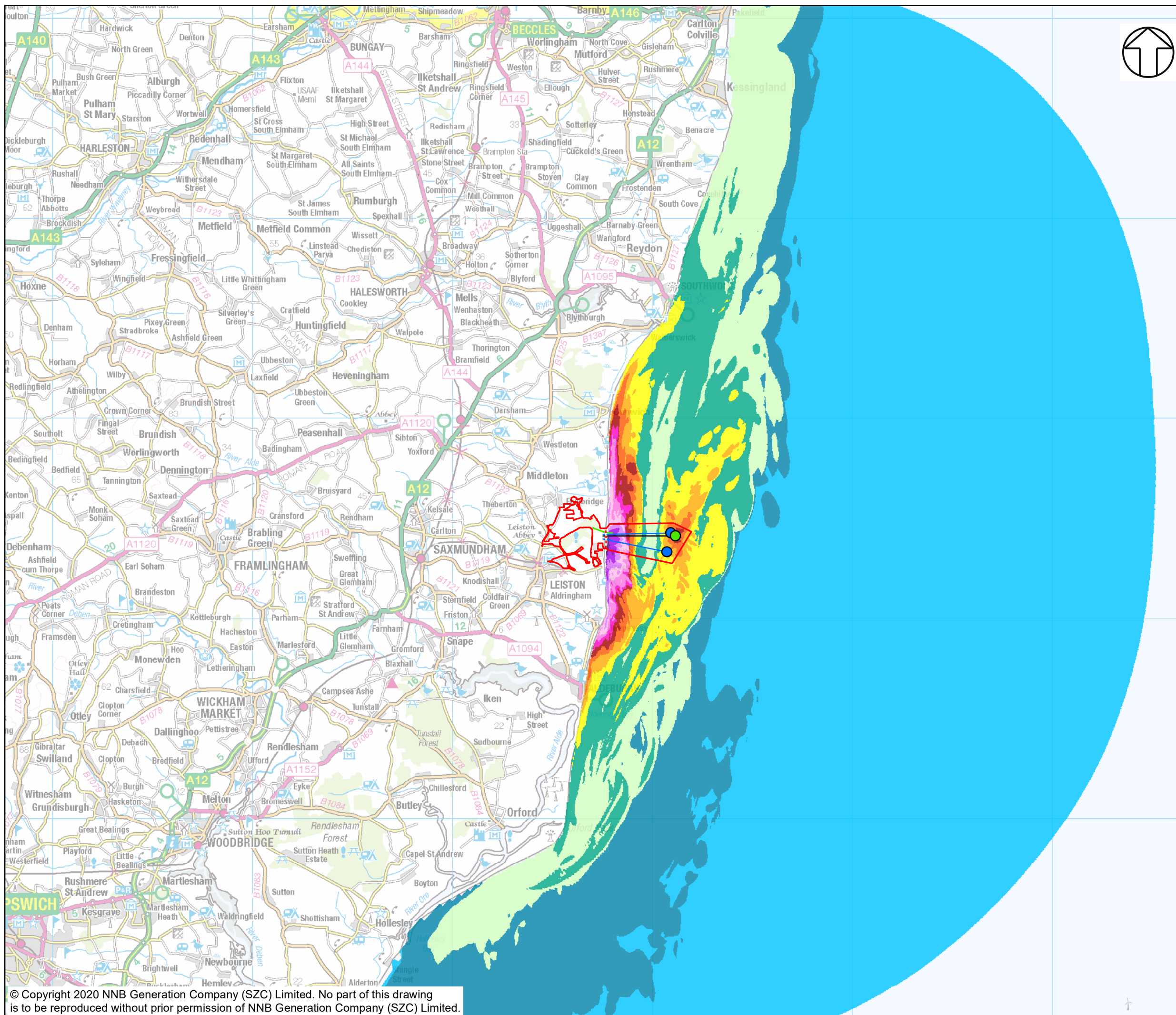
5.10 Shadow Habitats Regulations Assessment Volume 1: Screening and Appropriate Assessment Part 3 of 5

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
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

SURFACE MAXIMUM EXCESS TEMPERATURE (°C)

- 1°C
- 2°C
- 3°C
- 4°C
- 5°C
- 6°C
- 7°C
- 8°C
- 9°C
- 10°C
- 11°C
- 12°C
- 13°C
- 14°C +

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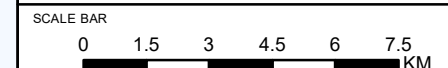


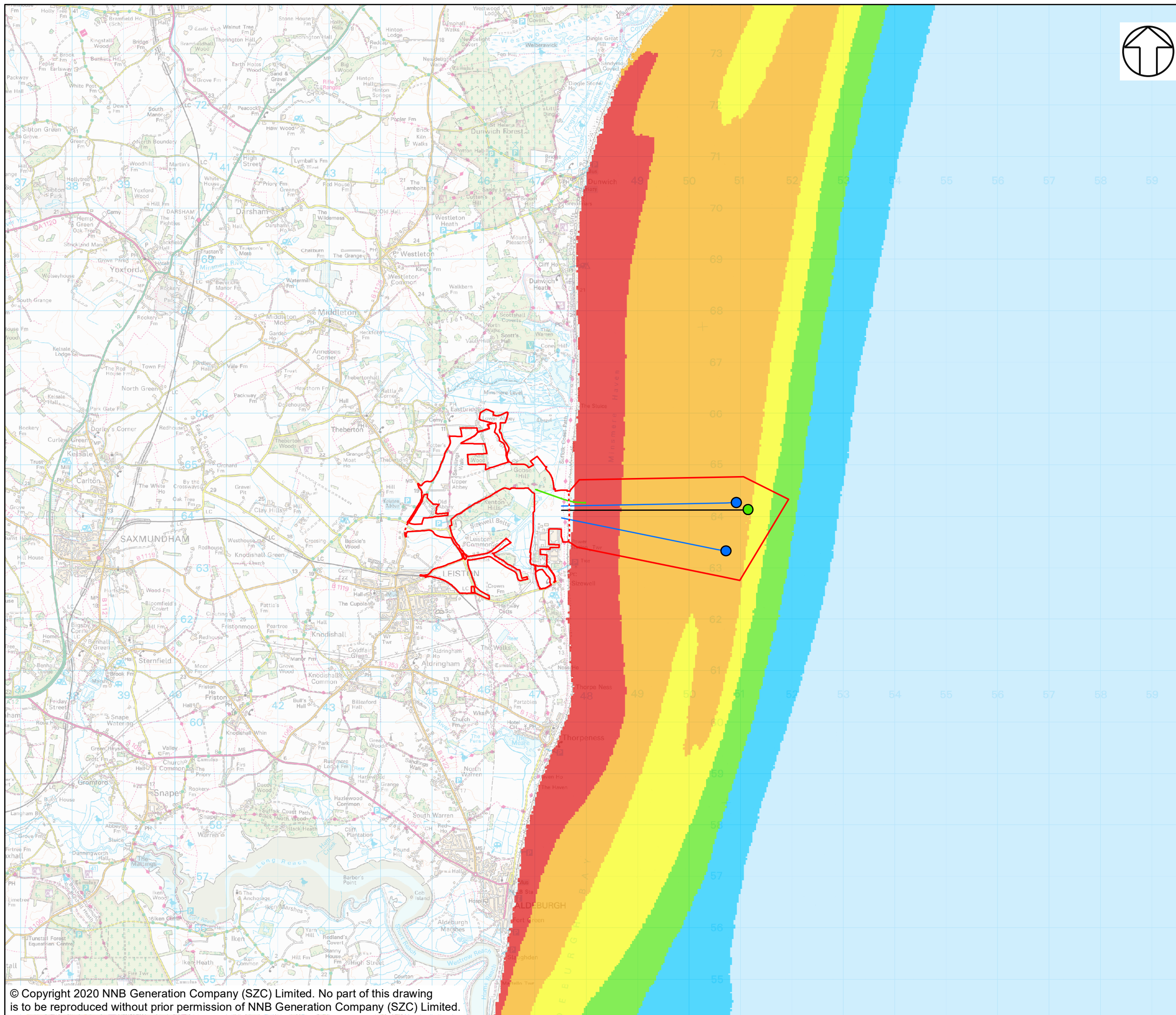
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 SURFACE ANNUAL MAXIMUM EXCESS TEMPERATURE FOR SIZEWELL B AND SIZEWELL C

DRAWING NO:
 FIGURE 7.1

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:180,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

SEABED ANNUAL MAXIMUM EXCESS TEMPERATURE (°C)

- > 0°C
- > 0.5°C
- > 1°C
- > 1.5°C
- > 2°C
- > 3°C

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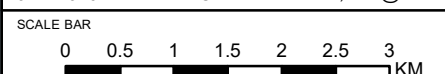


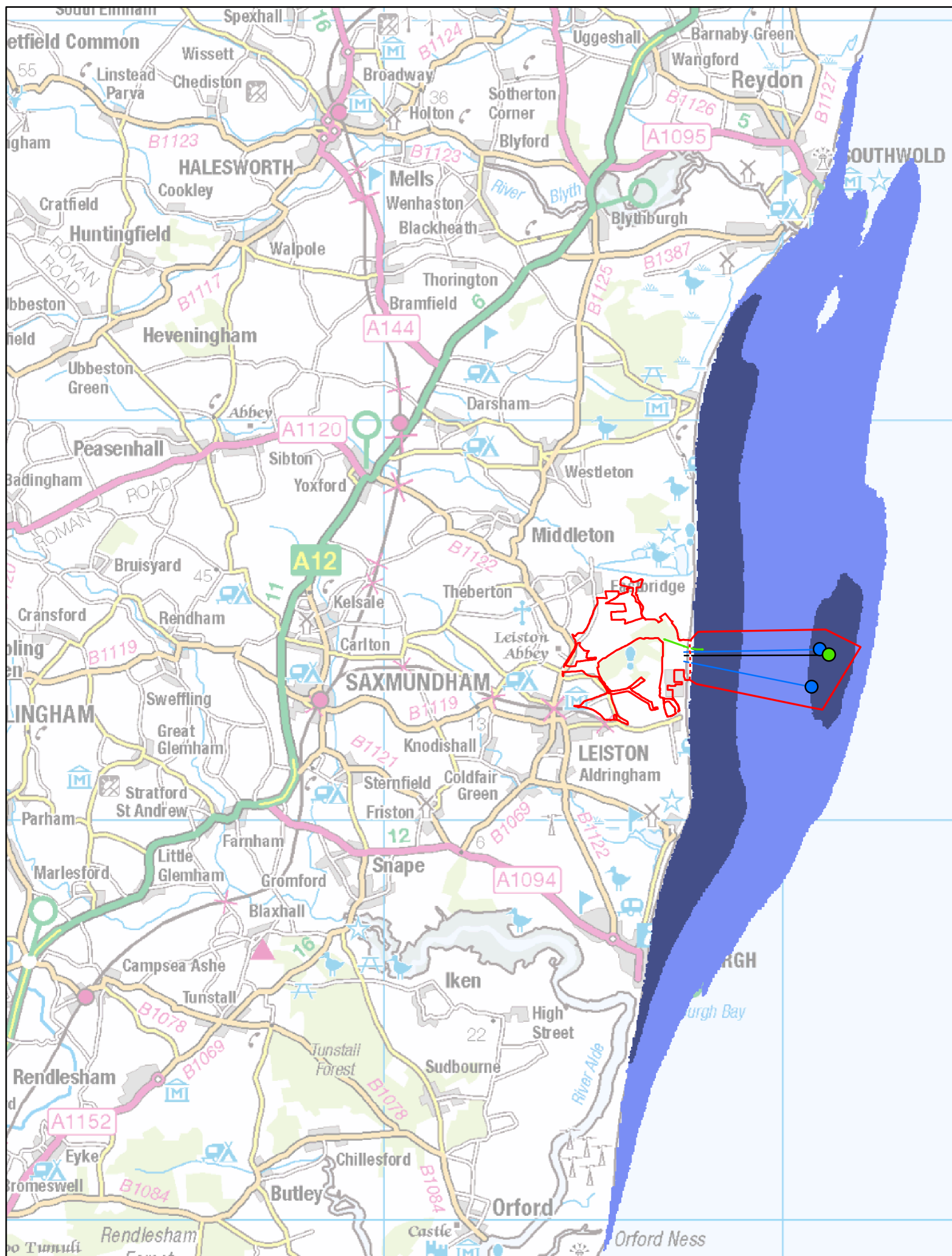
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 SEABED ANNUAL MAXIMUM EXCESS TEMPERATURE FOR SIZEWELL B AND SIZEWELL C

DRAWING NO:
 FIGURE 7.2

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:70,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

SIZEWELL OPERATION THERMAL EXCESS 98TH PERCENTILE SZB & SZC

- > 3°C
- > 2°C

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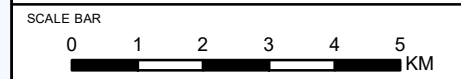


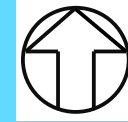
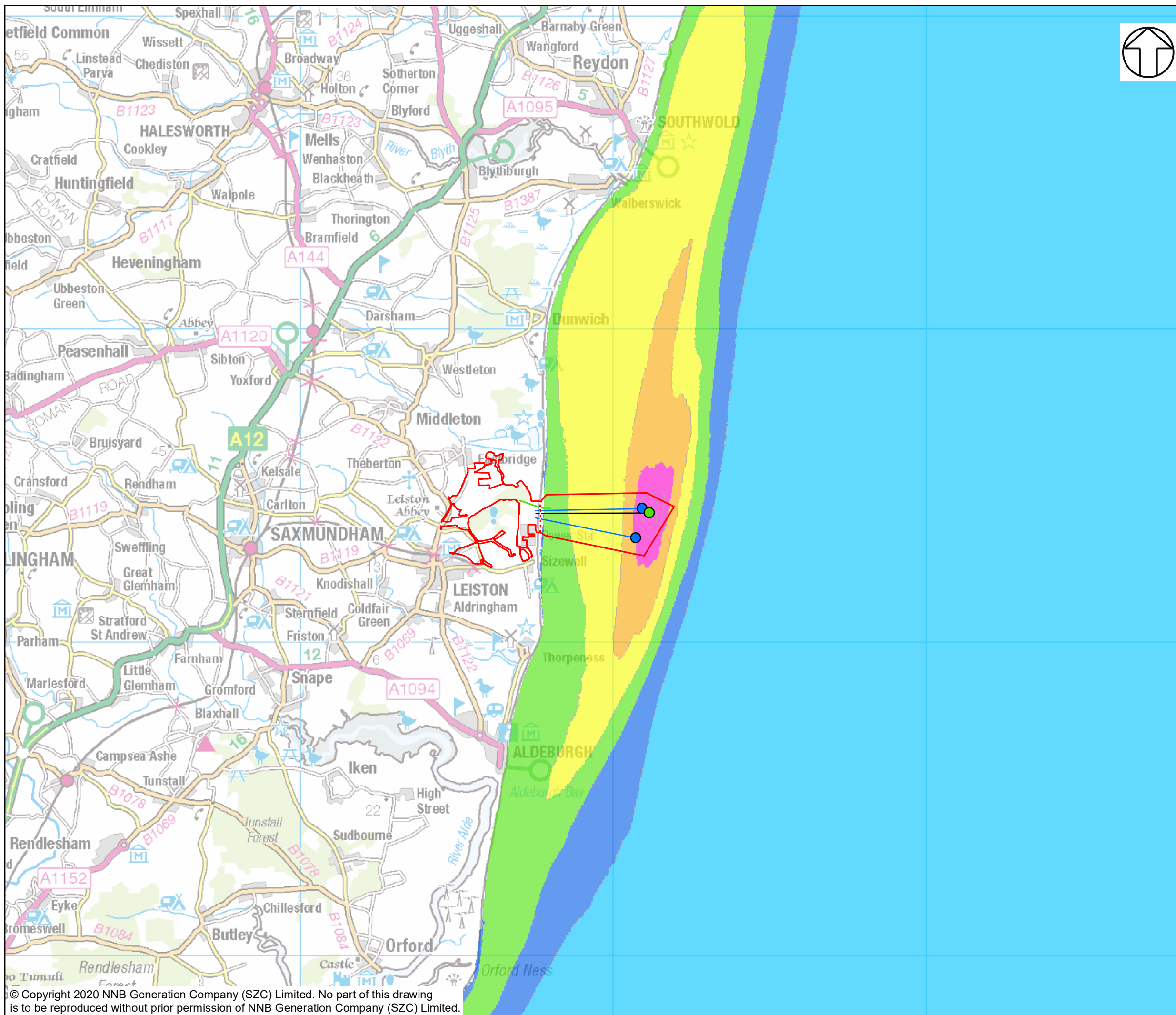
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 98TH PERCENTILE FOR SURFACE WATER TEMPERATURE EXCEEDING A 2°C AND 3°C INCREASE DUE TO THE OPERATION OF SIZEWELL C IN CONJUNCTION WITH SIZEWELL B

DRAWING NO:
 FIGURE 7.3

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:115,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

ANNUAL SURFACE TEMPERATURE DIFFERENCE 98TH PERCENTILE

- >0°C
- >0.5°C
- >1°C
- >1.5°C
- >2°C
- >3°C

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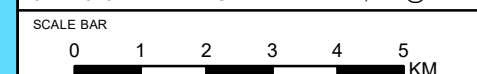


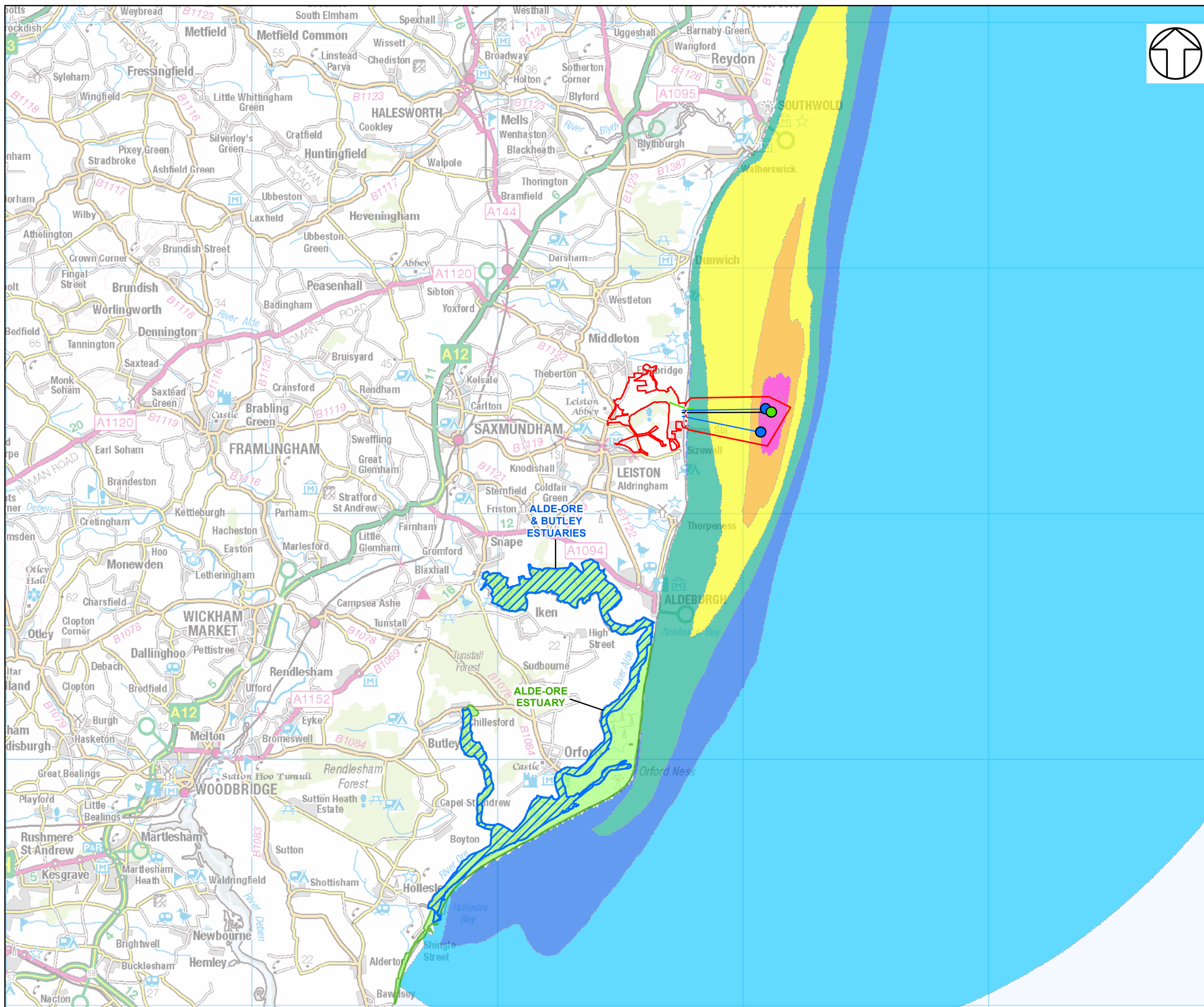
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 98TH PERCENTILE FOR SURFACE
 WATER TEMPERATURE EXCEEDING A
 2°C AND 3°C INCREASE DUE TO
 THE OPERATION OF SIZEWELL C

DRAWING NO:
 FIGURE 7.4

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:115,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

DESIGNATIONS

- SPECIAL AREA OF CONSERVATION (SAC)
- RAMSAR SITE

ANNUAL SURFACE TEMPERATURE DIFFERENCE 98TH PERCENTILE

- >0°C
- >0.5°C
- >1°C
- >1.5°C
- >2°C
- >3°C

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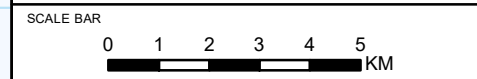


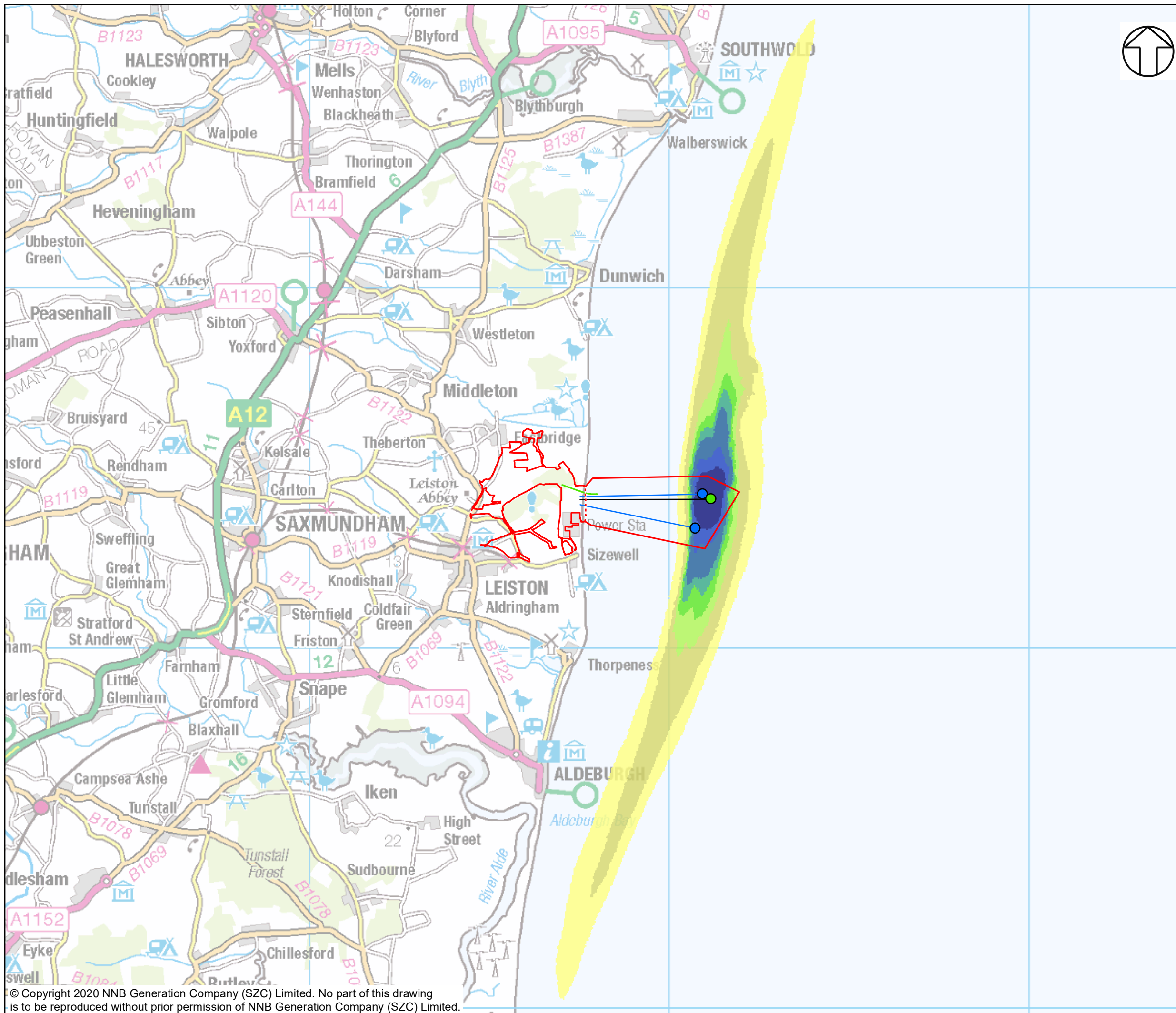
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 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 98TH PERCENTILE FOR SURFACE WATER TEMPERATURE EXCEEDING A 2°C AND 3°C INCREASE DUE TO THE OPERATION OF SIZEWELL C IN RELATION TO THE ALDE-ORE AND BUTLEY ESTUARIES SAC AND RAMSAR SITE

DRAWING NO:
 FIGURE 7.5

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:150,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

PLUME EXTENT OF TOTAL RESIDUAL OXIDANT (TRO) 95TH PERCENTILE SURFACE

- >=1 µg/l
- >=2 µg/l
- >=4 µg/l
- >=6 µg/l
- >=8 µg/l
- >=10 µg/l
- >=15 µg/l
- >=20 µg/l

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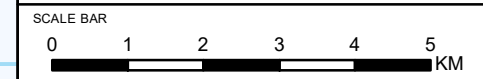


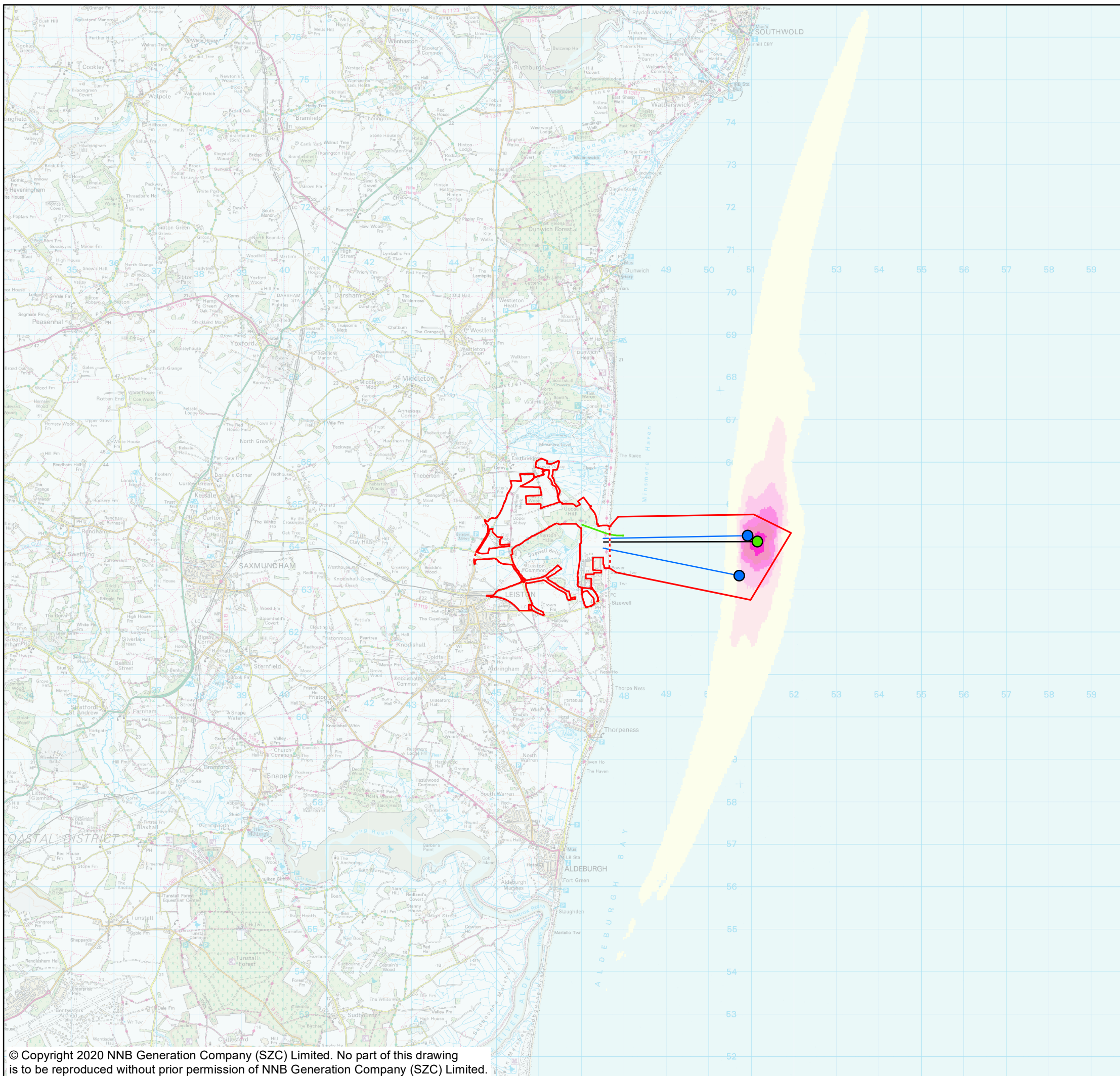
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 95TH PERCENTILE OF TRO CONCENTRATIONS AT THE SURFACE FROM THE OPERATION OF SIZEWELL C.

DRAWING NO:
 FIGURE 7.6

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:100,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

PLUME EXTENT OF BROMOFORM OF THE 95TH PERCENTILE SURFACE

- >=1 ug/l
- >=2 ug/l
- >=3 ug/l
- >=4 ug/l
- >=5 ug/l
- >=7 ug/l
- >=10 ug/l

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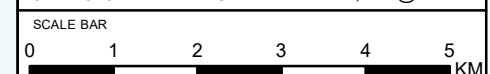


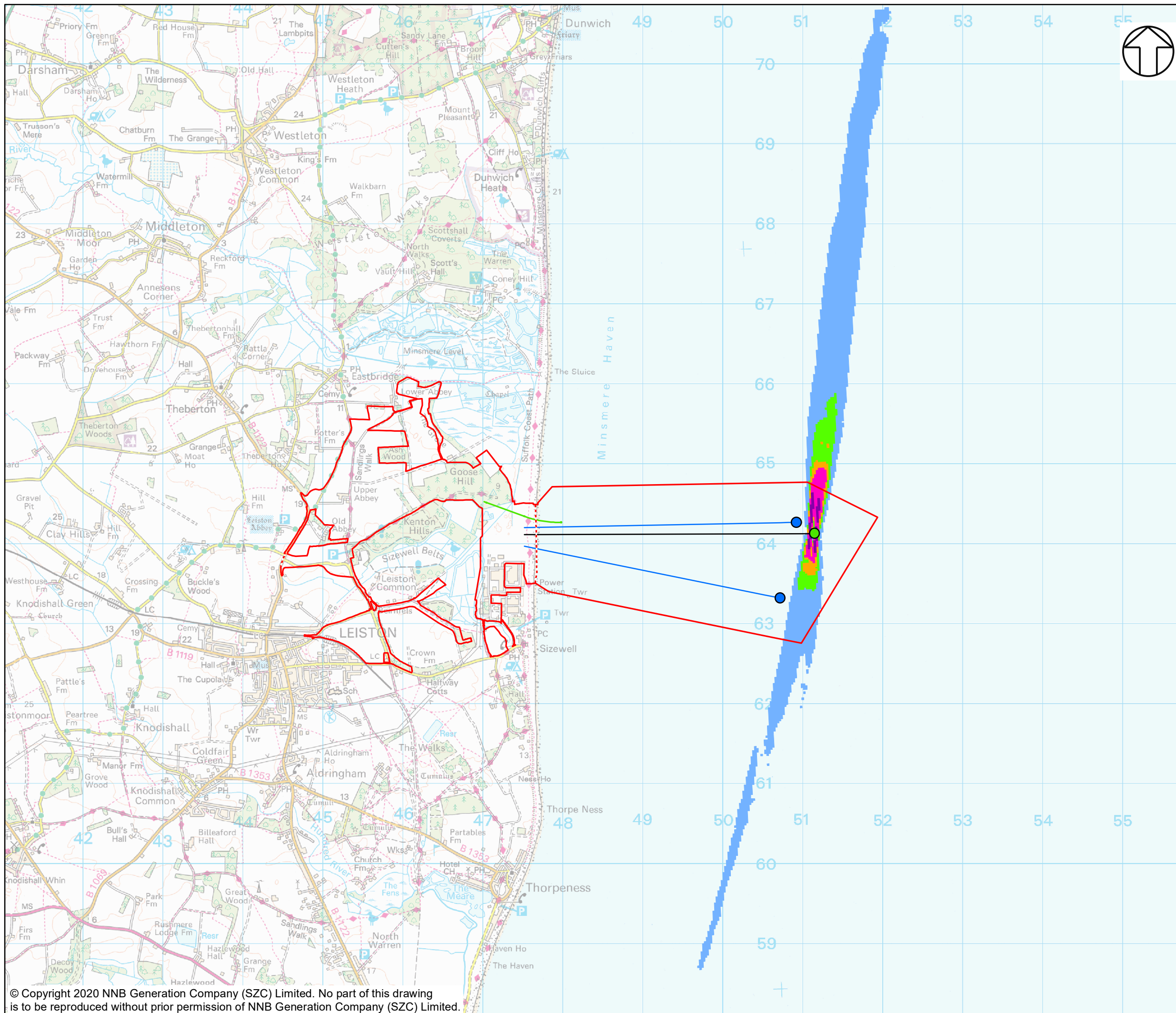
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 95TH PERCENTILE OF BROMOFORM
 CONCENTRATION AT THE SURFACE
 FROM THE OPERATION OF SIZEWELL C.

DRAWING NO:
 FIGURE 7.7

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NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

PLUME EXTENT OF HYDRAZINE OF THE 95TH PERCENTILE

- >=1ng/l
- >=2ng/l
- >=3ng/l
- >=4ng/l
- >=5ng/l

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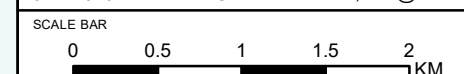


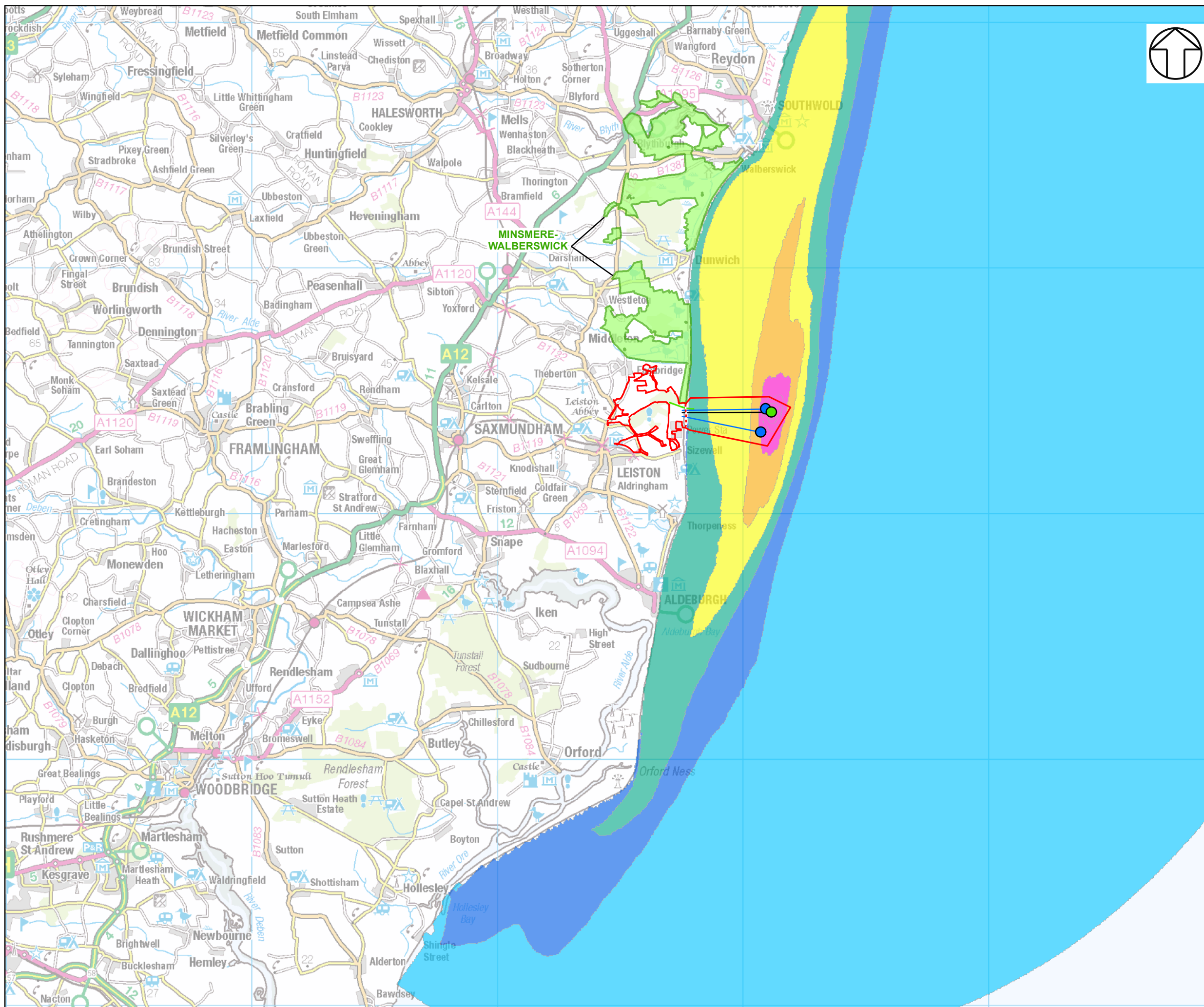
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 95TH PERCENTILE OF HYDRAZINE
 CONCENTRATIONS AT THE SURFACE.
 THIS IS AFTER THE RELEASE OF 69 NGL-1
 OF HYDRAZINE IN PULSES OF 2.32H FROM
 SIZEWELL C.

DRAWING NO:
 FIGURE 7.8

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:45,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

DESIGNATION

■ RAMSAR SITE

ANNUAL SURFACE TEMPERATURE DIFFERENCE 98TH PERCENTILE

- >0°C
- >0.5°C
- >1°C
- >1.5°C
- >2°C
- >3°C

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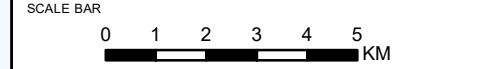


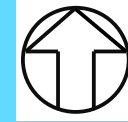
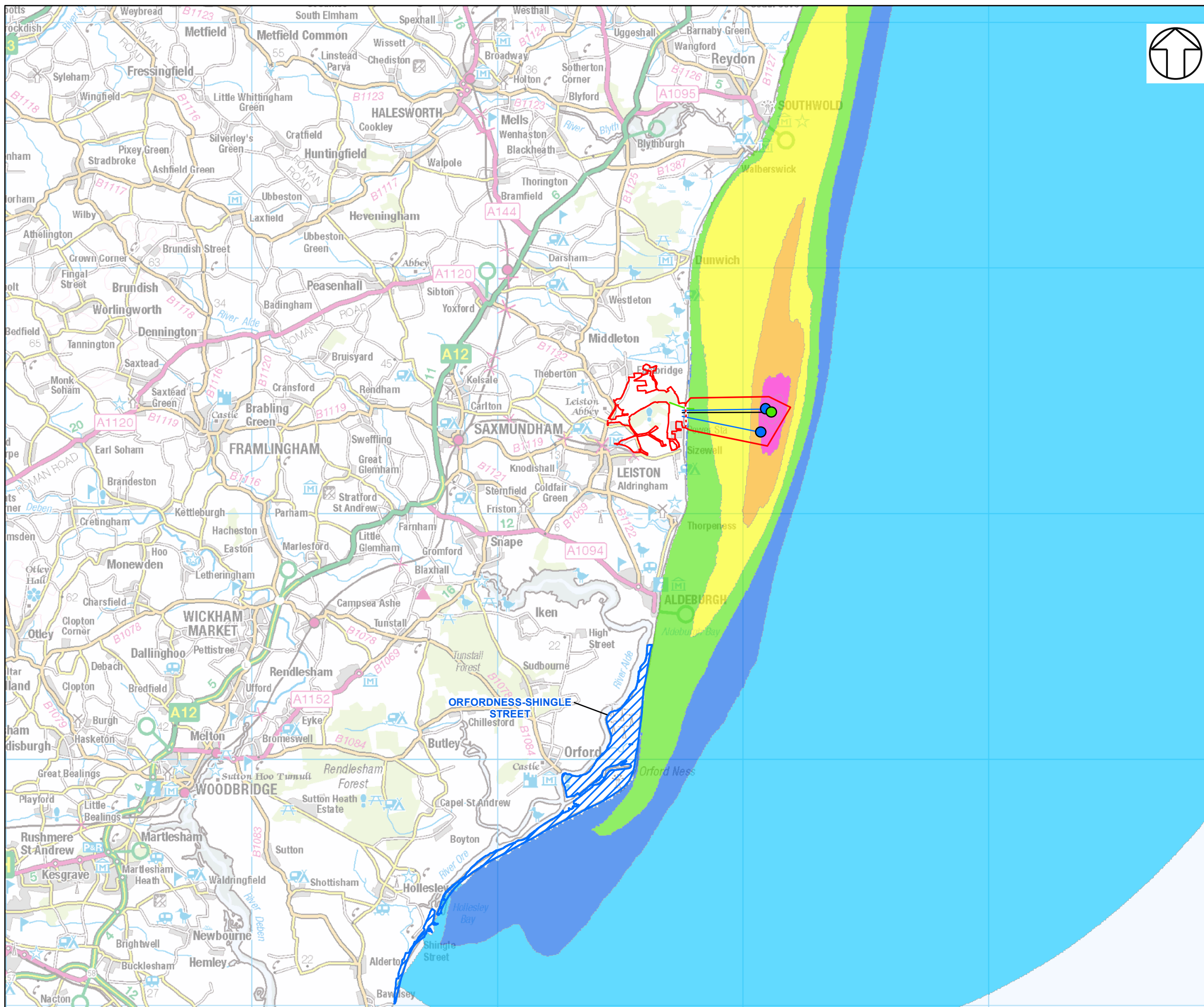
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 7
 INFORMATION FOR AA: HABITATS

DRAWING TITLE:
 98TH PERCENTILE FOR SURFACE WATER TEMPERATURE EXCEEDING A 2°C AND 3°C INCREASE DUE TO THE OPERATION OF SIZEWELL C IN RELATION TO THE MINSMERE-WALBERSWICK RAMSAR SITE

DRAWING NO:
 FIGURE 7.9

DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:150,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- COMBINED DISCHARGE OUTFALL LOCATION
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION

DESIGNATION

- SPECIAL AREA OF CONSERVATION (SAC)

ANNUAL SURFACE TEMPERATURE DIFFERENCE 98TH PERCENTILE

- >0°C
- >0.5°C
- >1°C
- >1.5°C
- >2°C
- >3°C

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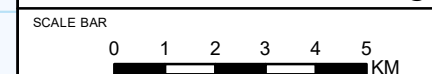


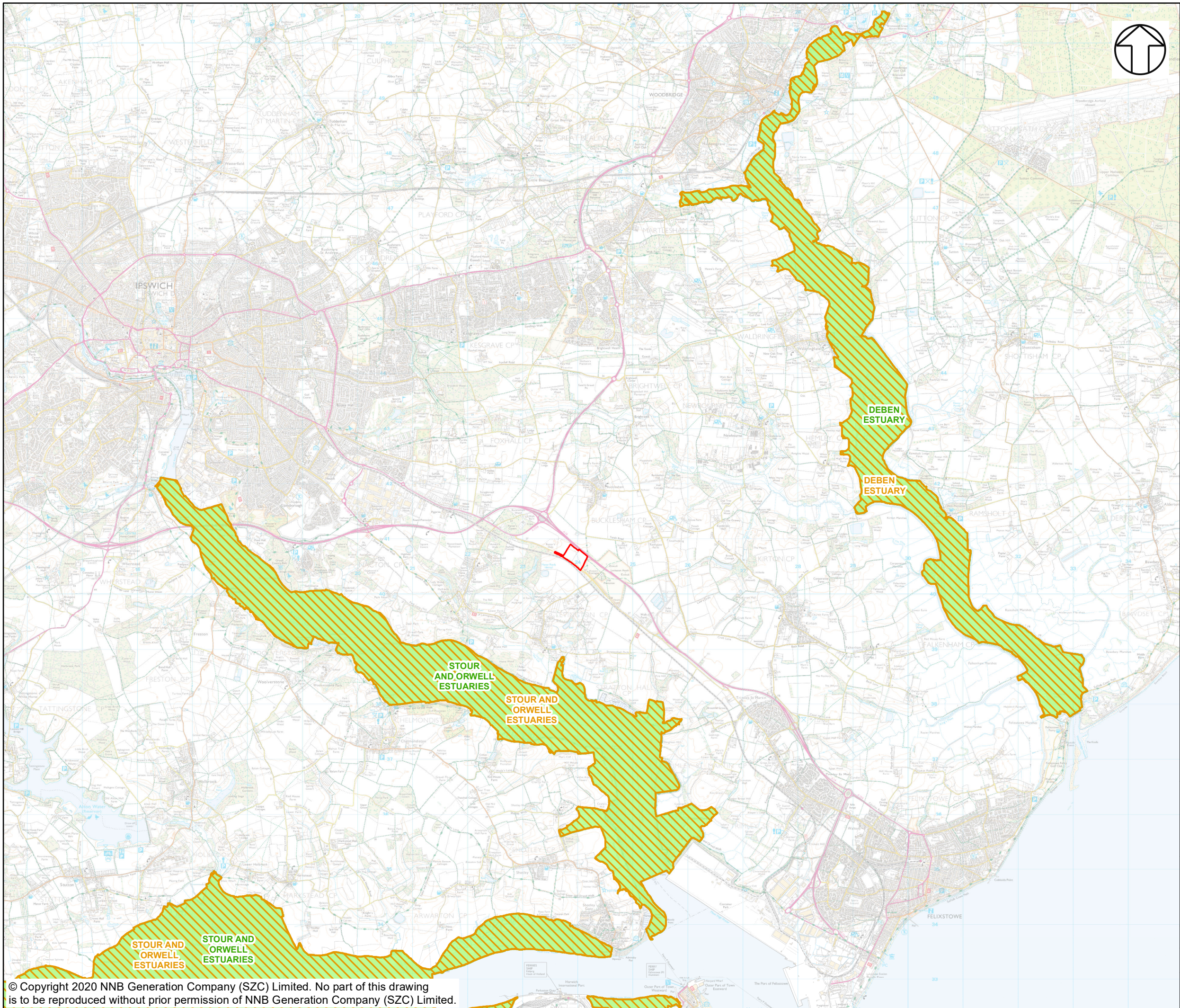
DOCUMENT:
SIZEWELL C
SHADOW HRA REPORT
CHAPTER 7
INFORMATION FOR AA: HABITATS

DRAWING TITLE:
98TH PERCENTILE FOR SURFACE WATER
TEMPERATURE EXCEEDING A 2°C AND 3°C
INCREASE DUE TO THE OPERATION OF
SIZEWELL C IN RELATION TO ORFORDNESS-
SHINGLE STREET SAC

DRAWING NO:
FIGURE 7.10

DATE: JAN 2020 DRAWN: F.C. SCALE: 1:150,000 @A3





NOTES

KEY

- FREIGHT MANAGEMENT FACILITY DEVELOPMENT SITE BOUNDARY
- SPECIAL PROTECTION AREA (SPA)
- RAMSAR SITE

DESIGNATIONS

- SPECIAL PROTECTION AREA (SPA)
- RAMSAR SITE

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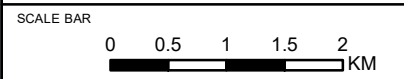
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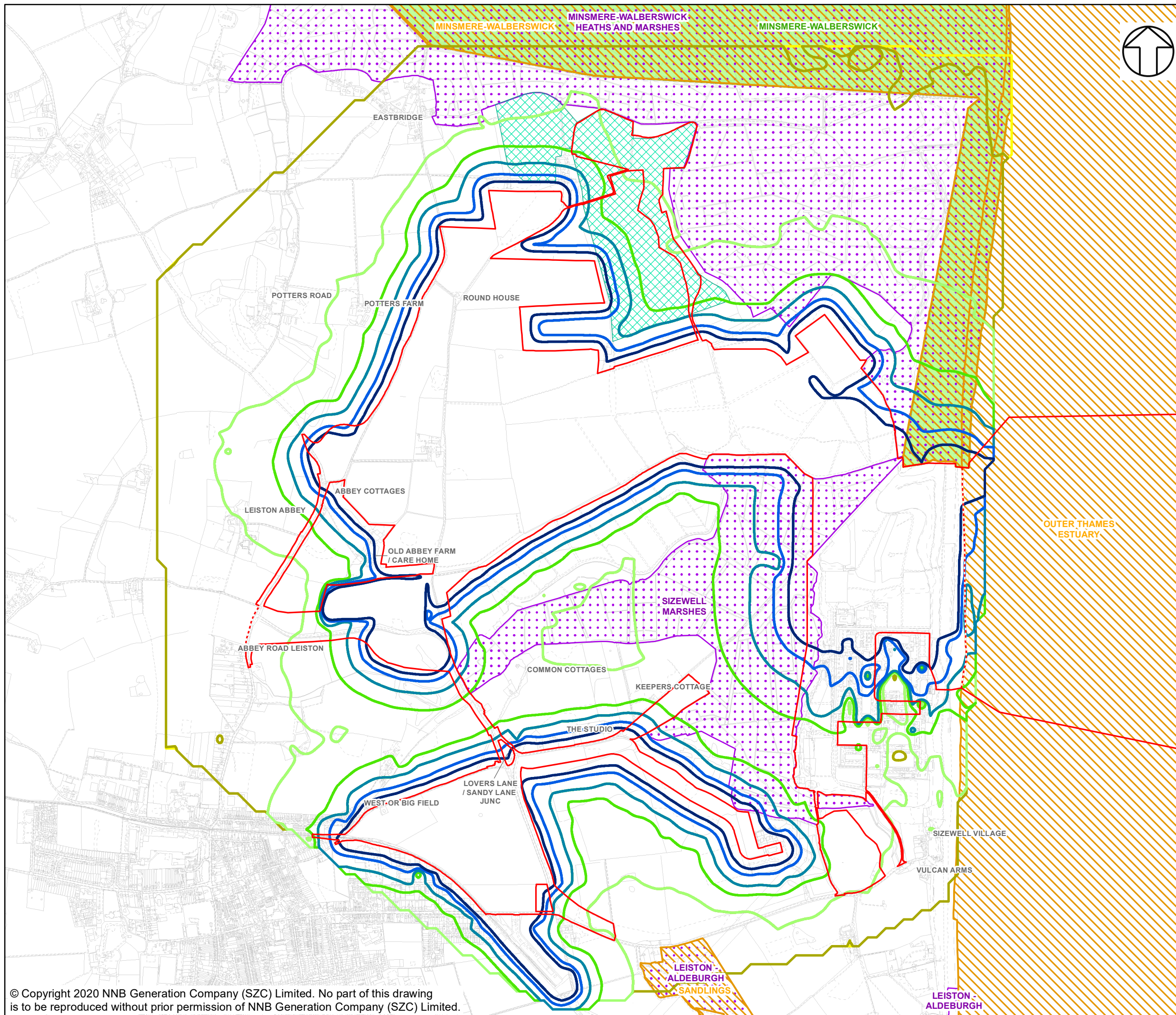


DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 THE LOCATION OF THE DEBEN ESTUARY AND STOUR AND ORWELL ESTUARY SPAS AND RAMSAR SITES IN RELATION TO THE PROPOSED FREIGHT MANAGEMENT FACILITIES FOR THE SIZEWELL C PROJECT

DRAWING NO:
 FIGURE 8.1
DATE: JAN 2020 **DRAWN:** F.C. **SCALE:** 1:65,000 @A3





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- HARRIER HABITAT IMPROVEMENT AREA
- DESIGNATIONS**
- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR SITE
- PHASE 1 - NO BARRIER**
- NOISE LEVEL $L_{Amax}(DB)$**
- ≤ 54
- 54 - 64
- 64 - 70
- 70 - 74
- 74 - 79
- 79 - 84
- > 84

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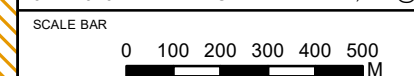


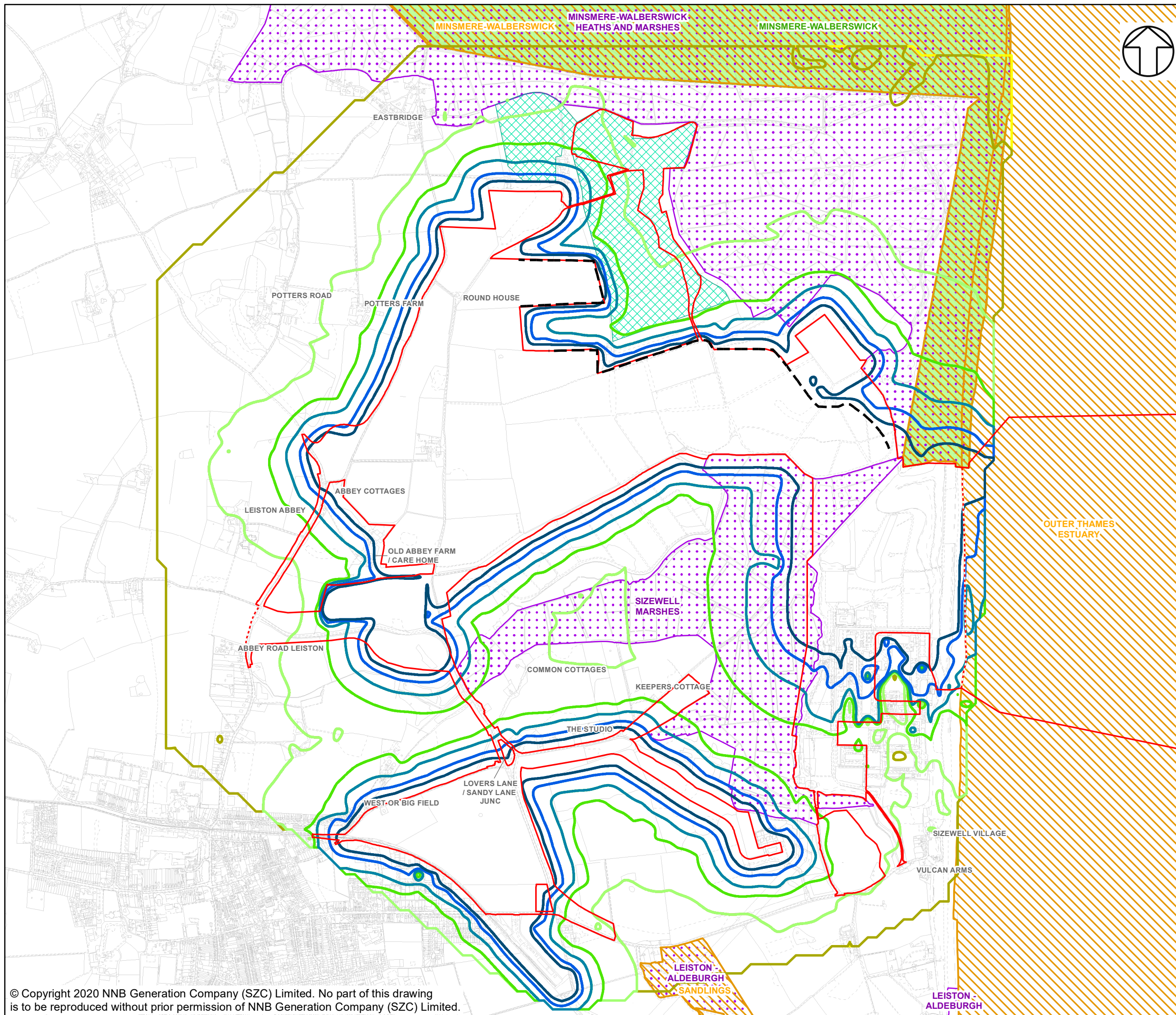
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 PREDICTED PEAK NOISE AT 3M ELEVATION
 FOR PHASE 1 CONSTRUCTION FOR
 SIZEWELL C WITHOUT FENCE (BORROW
 PIT OPTION 2 - AREAS 1 AND 2)

DRAWING NO:
 FIGURE 8.2

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





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
 - DEMARCATION LINE
 - HARRIER HABITAT IMPROVEMENT AREA
 - FENCE
- DESIGNATIONS**
- SPECIAL PROTECTION AREA (SPA)
 - SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
 - RAMSAR SITE
- PHASE 1 - 5M BARRIER**
- NOISE LEVEL L_{max} (DB)**
- ≤ 54
 - 54 - 64
 - 64 - 70
 - 70 - 74
 - 74 - 79
 - 79 - 84
 - >84

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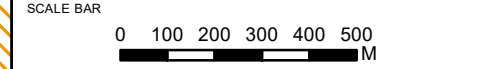


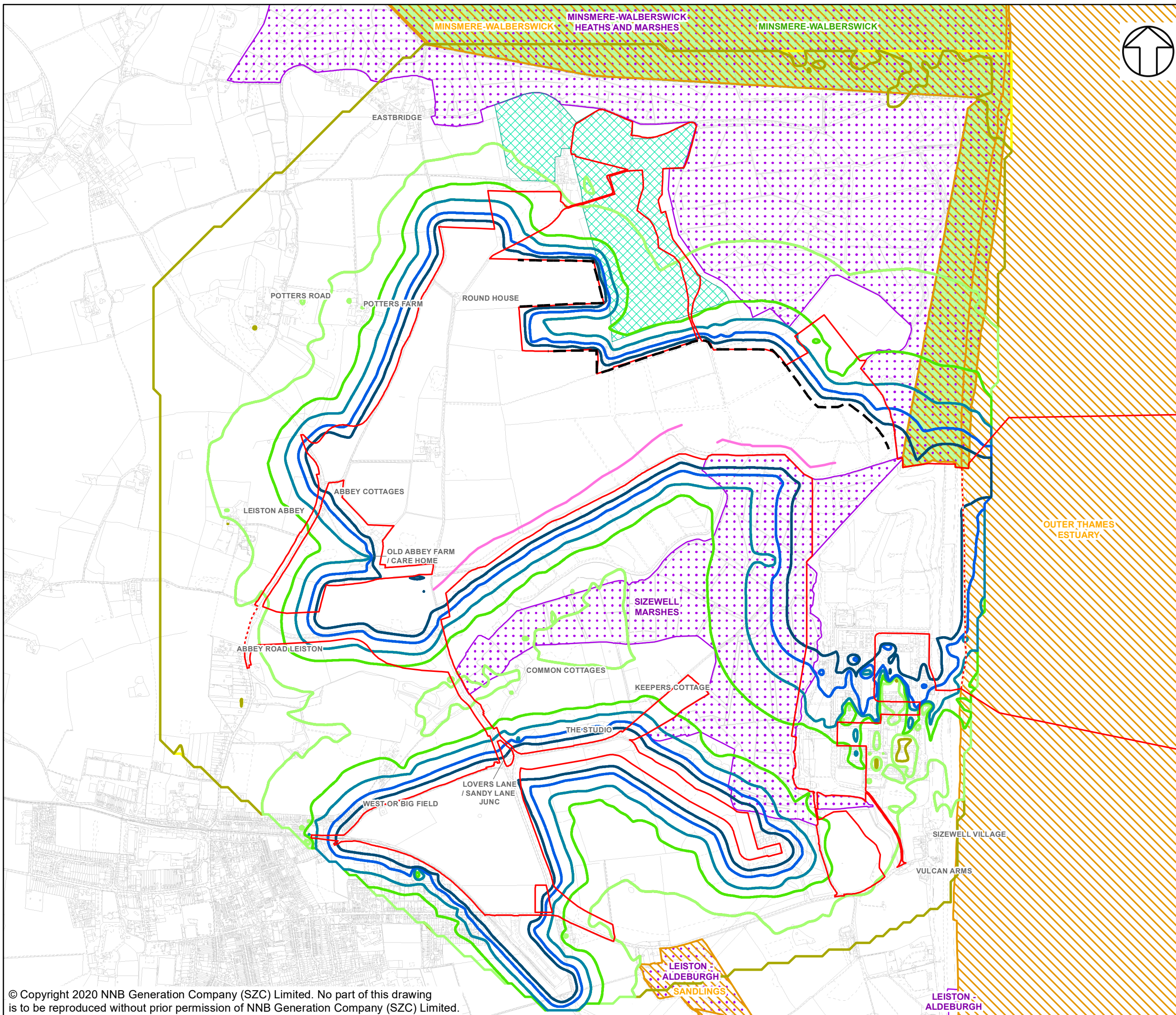
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 PREDICTED PEAK NOISE AT 3M ELEVATION
 FOR PHASE 1 CONSTRUCTION FOR SIZEWELL C
 WITH 5M HIGH FENCE IN PLACE (BORROW PIT
 OPTION 2 - AREAS 1 AND 2)

DRAWING NO:
 FIGURE 8.3

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





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- HARRIER HABITAT IMPROVEMENT AREA
- BUND
- - - FENCE

DESIGNATIONS

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

PHASE 2

NOISE LEVEL L_{max}(DB)

- <= 54
- 54 - 64
- 64 - 70
- 70 - 74
- 74 - 79
- 79 - 84
- >84

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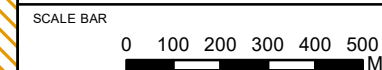


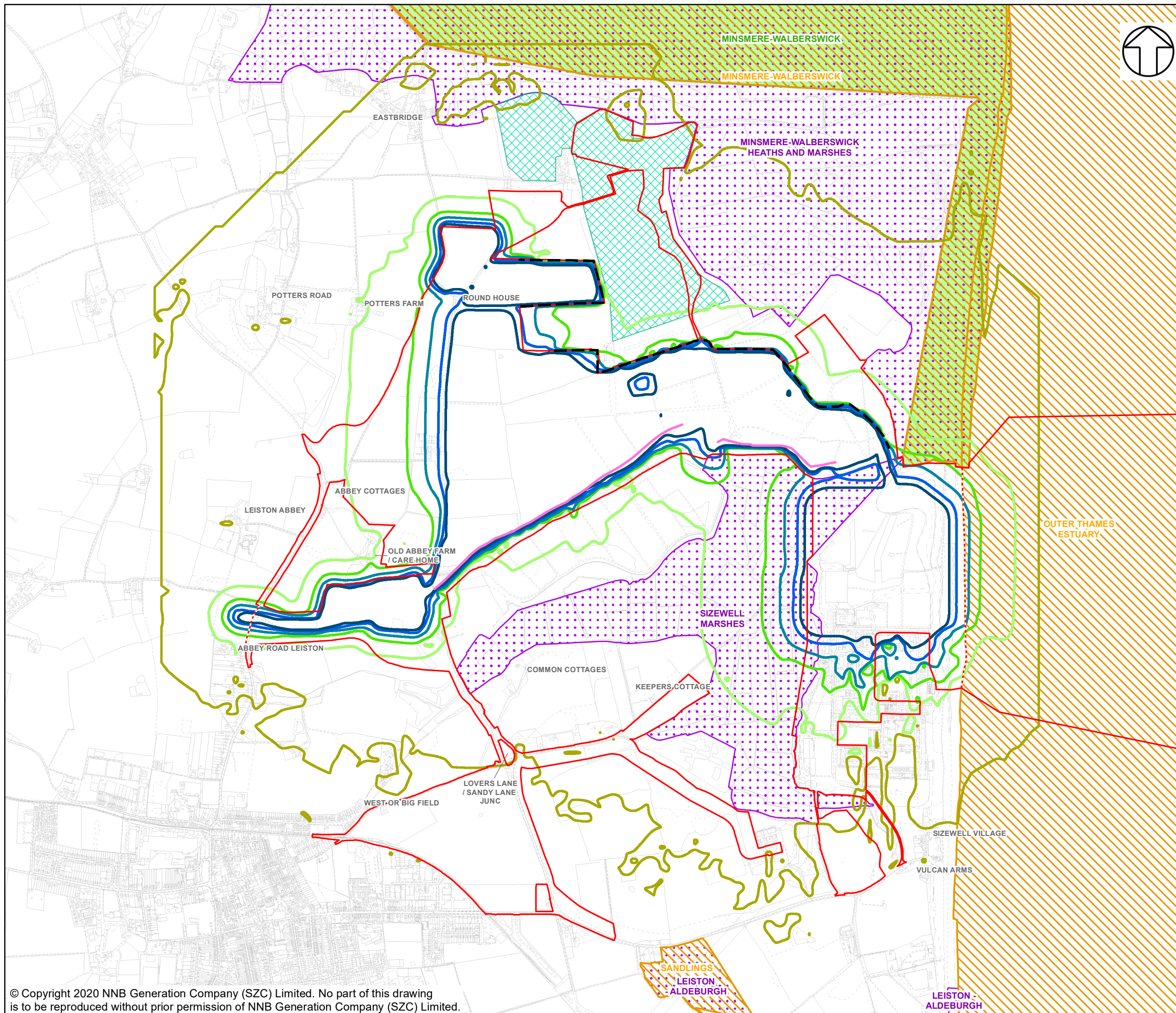
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 PREDICTED PEAK NOISE AT 3M ELEVATION FOR
 PHASE 2 CONSTRUCTION FOR SIZEWELL C
 (BORROW PIT OPTION 2 - AREAS 1 AND 2)

DRAWING NO:
 FIGURE 8.4

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





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- ▨ HARRIER HABITAT IMPROVEMENT AREA
- BUND
- FENCE
- DESIGNATIONS**
- ▨ SPECIAL PROTECTION AREA (SPA)
- ▨ SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- ▨ RAMSAR SITE
- PHASES 3 AND 4**
- NOISE LEVEL $L_{Amax}(DB)$**
- 54 - 64
- 64 - 70
- 70 - 74
- 74 - 79
- 79 - 84
- >84

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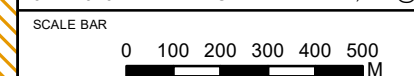


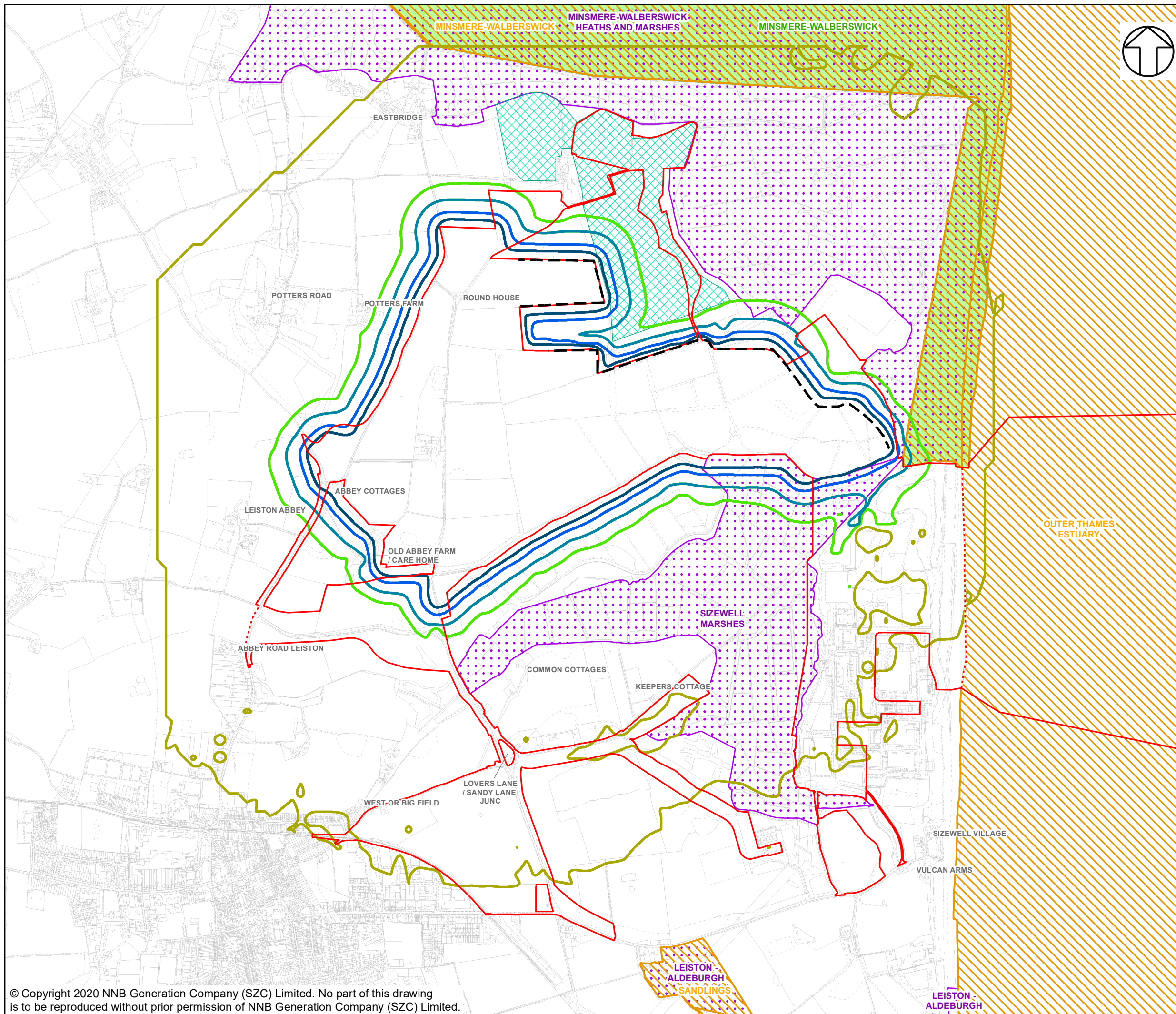
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 PREDICTED PEAK NOISE AT 3M ELEVATION
 FOR PHASES 3 AND 4 CONSTRUCTION FOR
 SIZEWELL C

DRAWING NO:
 FIGURE 8.5

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





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- HARRIER HABITAT IMPROVEMENT AREA
- FENCE

DESIGNATIONS

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

PHASE 5

NOISE LEVEL L_{max}(DB)

- 54 - 64
- 70 - 74
- 74 - 79
- 79 - 84
- >84

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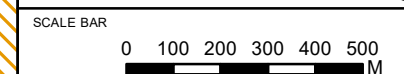


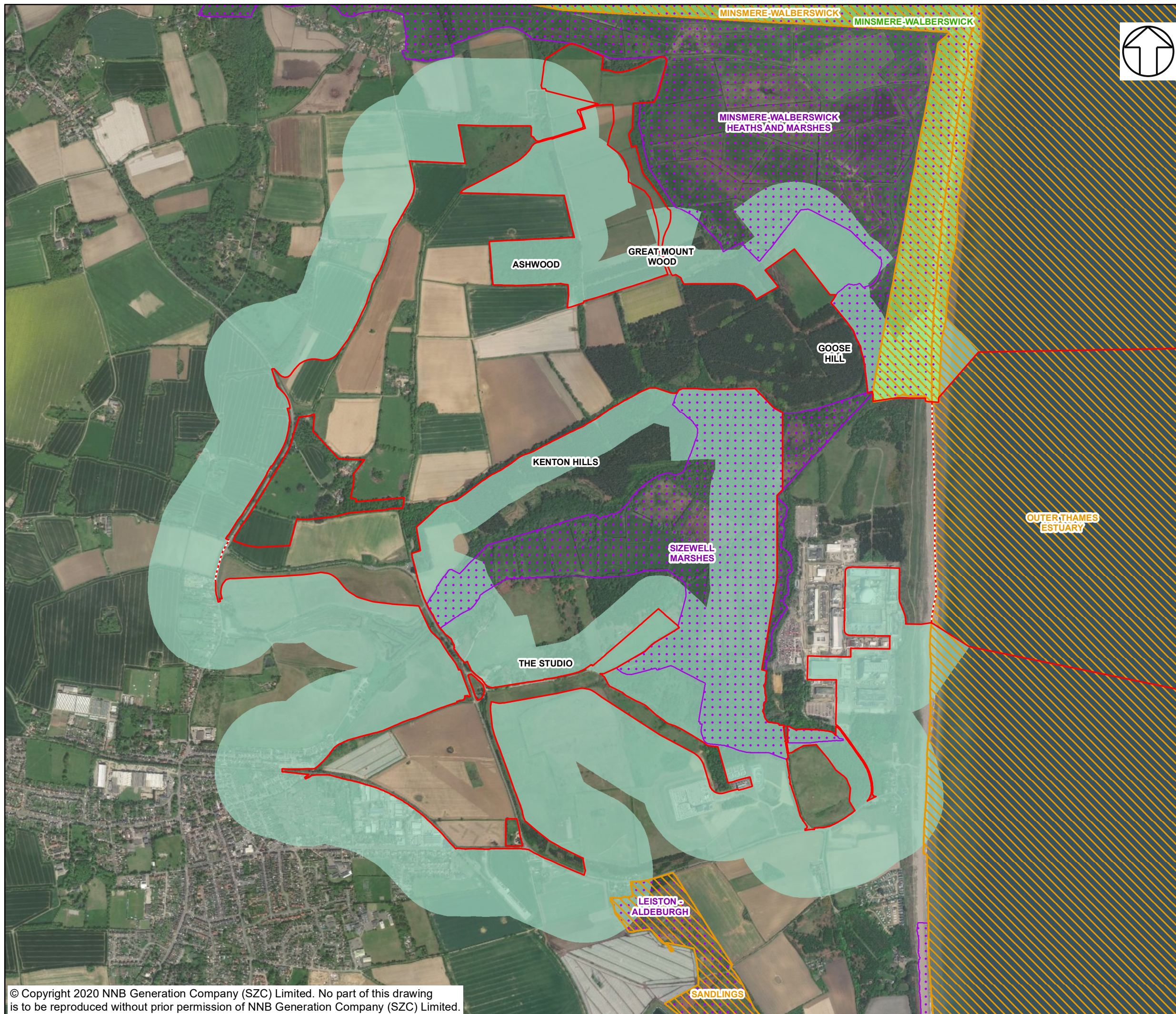
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 PREDICTED PEAK NOISE AT 3M ELEVATION
 FOR PHASE 5 CONSTRUCTION FOR
 SIZEWELL C

DRAWING NO:
 FIGURE 8.6

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





NOTES

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- VISUAL DISTURBANCE BUFFER
- DESIGNATIONS**
- SPECIAL PROTECTION AREA (SPA)
- SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- RAMSAR SITE

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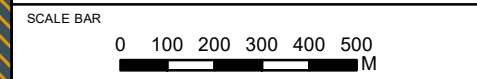


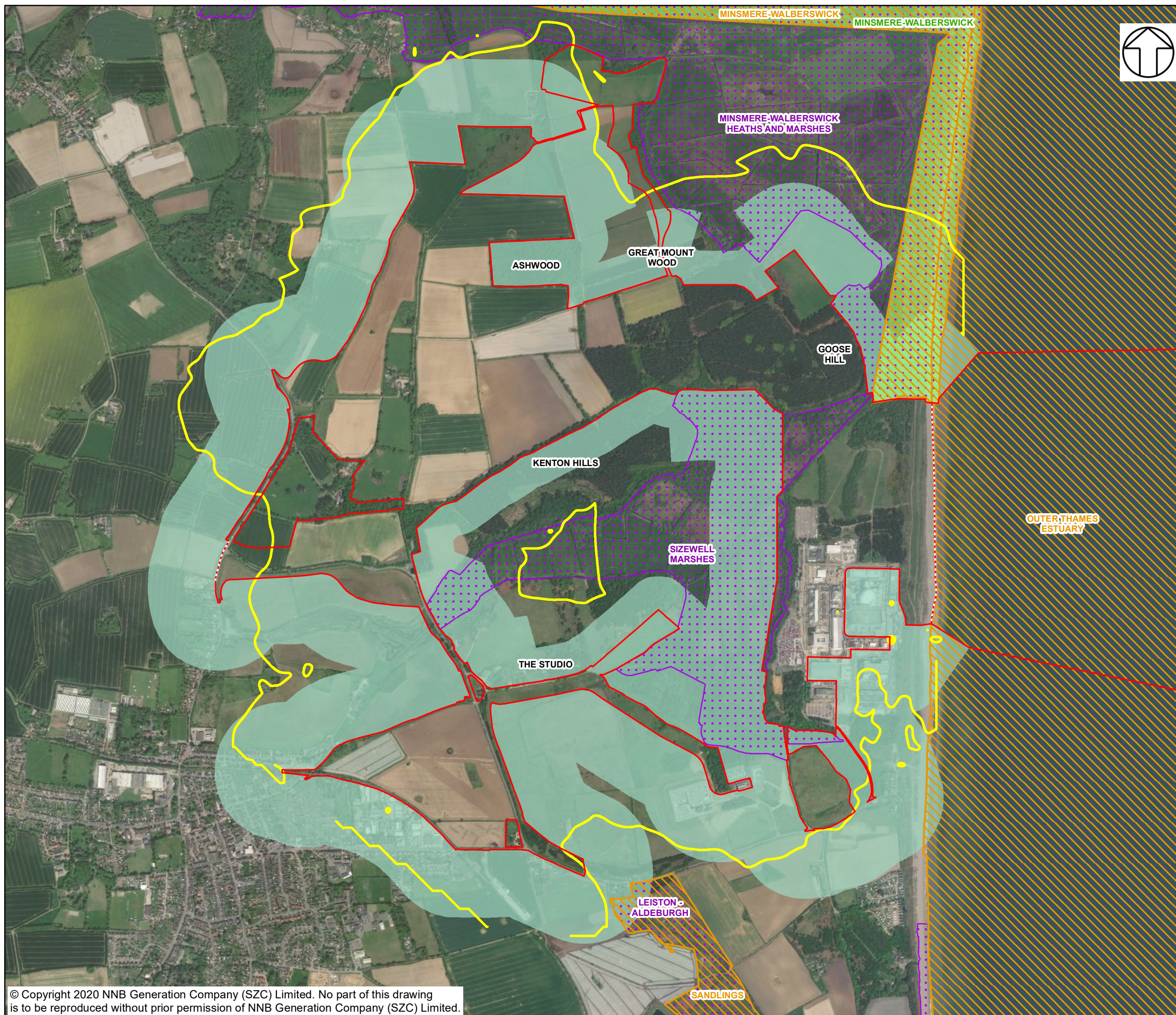
DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 THE EXTENT OF THE IMPACT ZONE WITHIN WHICH IT IS ASSUMED THAT THERE IS POTENTIAL FOR VISUAL DISTURBANCE EFFECTS ON WATERBIRDS AS A RESULT OF CONSTRUCTION ACTIVITIES

DRAWING NO:
 FIGURE 8.7

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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)
- RAMSAR SITE
- PHASE 1 - (INCLUDING 5M FENCE)**
- NOISE LEVEL $L_{Amax}(DB)$**
- 64

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DOCUMENT:
 SIZEWELL C
 SHADOW HRA REPORT
 CHAPTER 8
 INFORMATION FOR AA:
 BIRDS

DRAWING TITLE:
 THE 64DB L_{Amax} NOISE CONTOUR FOR THE WORST-CASE PREDICTION FOR PHASE 1 OF CONSTRUCTION, TOGETHER WITH THE VISUAL IMPACT ZONE

DRAWING NO:
 FIGURE 8.8

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