



# The Sizewell C Project

## 8.14 Water Framework Directive Compliance Assessment Report Part 2 Figures 2.1 to 2.32 - Part 3 of 3

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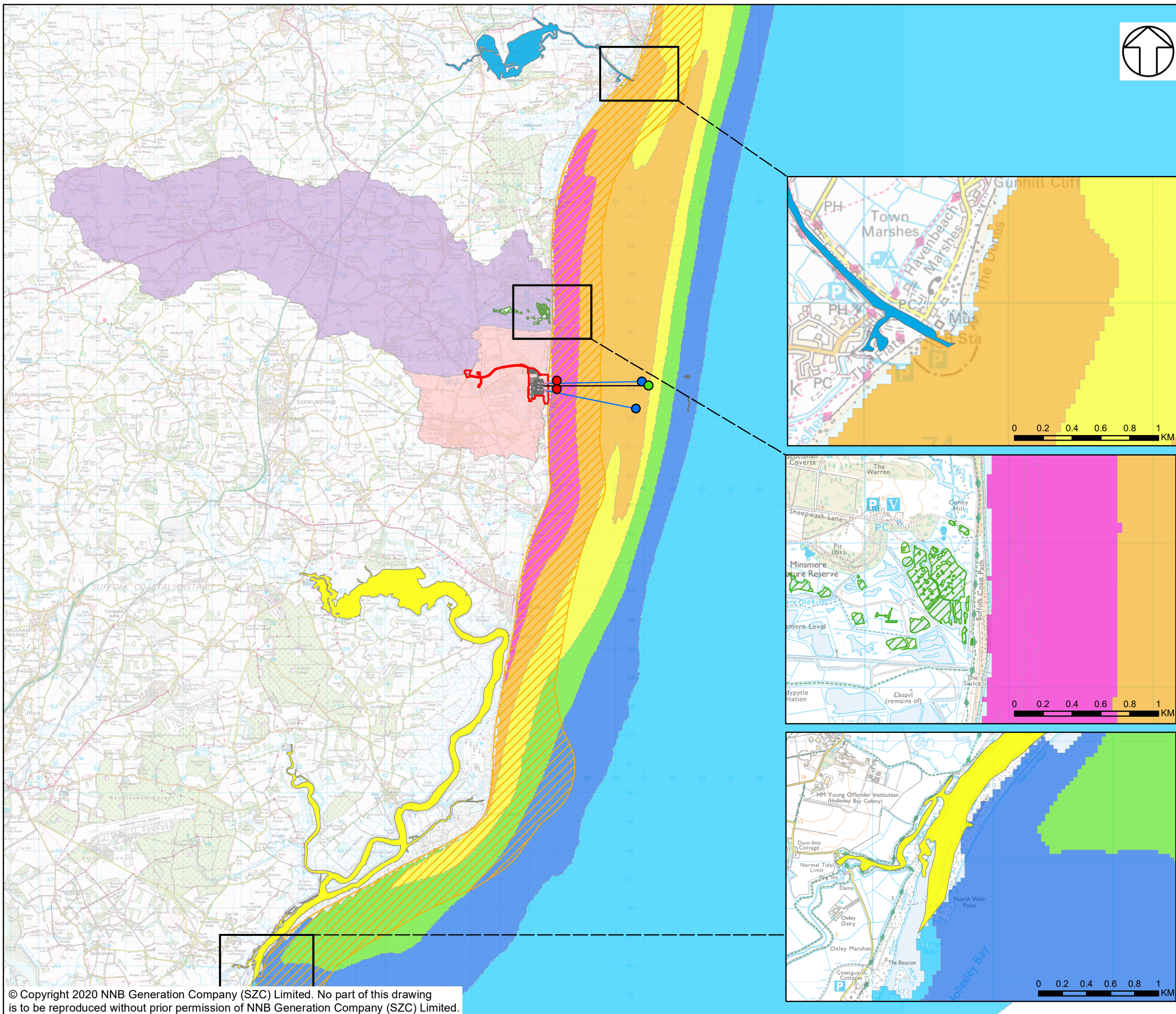
Revision: 1.0  
Applicable Regulation: Regulation 5(2)(q)  
PINS Reference Number: EN010012

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May 2020

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





**NOTES**

**KEY**

- OPERATIONAL SITE BOUNDARY
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- FISH RECOVERY AND RETURN (FRR)
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION
- FISH RECOVERY AND RETURN (FRR) OUTFALLS
- LEISTON BECK WFD RIVER WATER BODY CATCHMENT
- MINSMERE OLD RIVER WFD RIVER WATER BODY CATCHMENT
- SUFFOLK WFD COASTAL WATER BODY
- WALBERSWICK MARSHES WFD COASTAL WATER BODY
- ALDE & ORE WFD TRANSITIONAL WATER BODY
- BLYTH (S) WFD TRANSITIONAL WATER BODY

**ANNUAL SEABED TEMPERATURE DIFFERENCE 98TH PERCENTILE**

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

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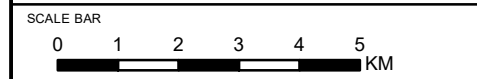


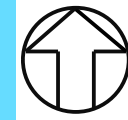
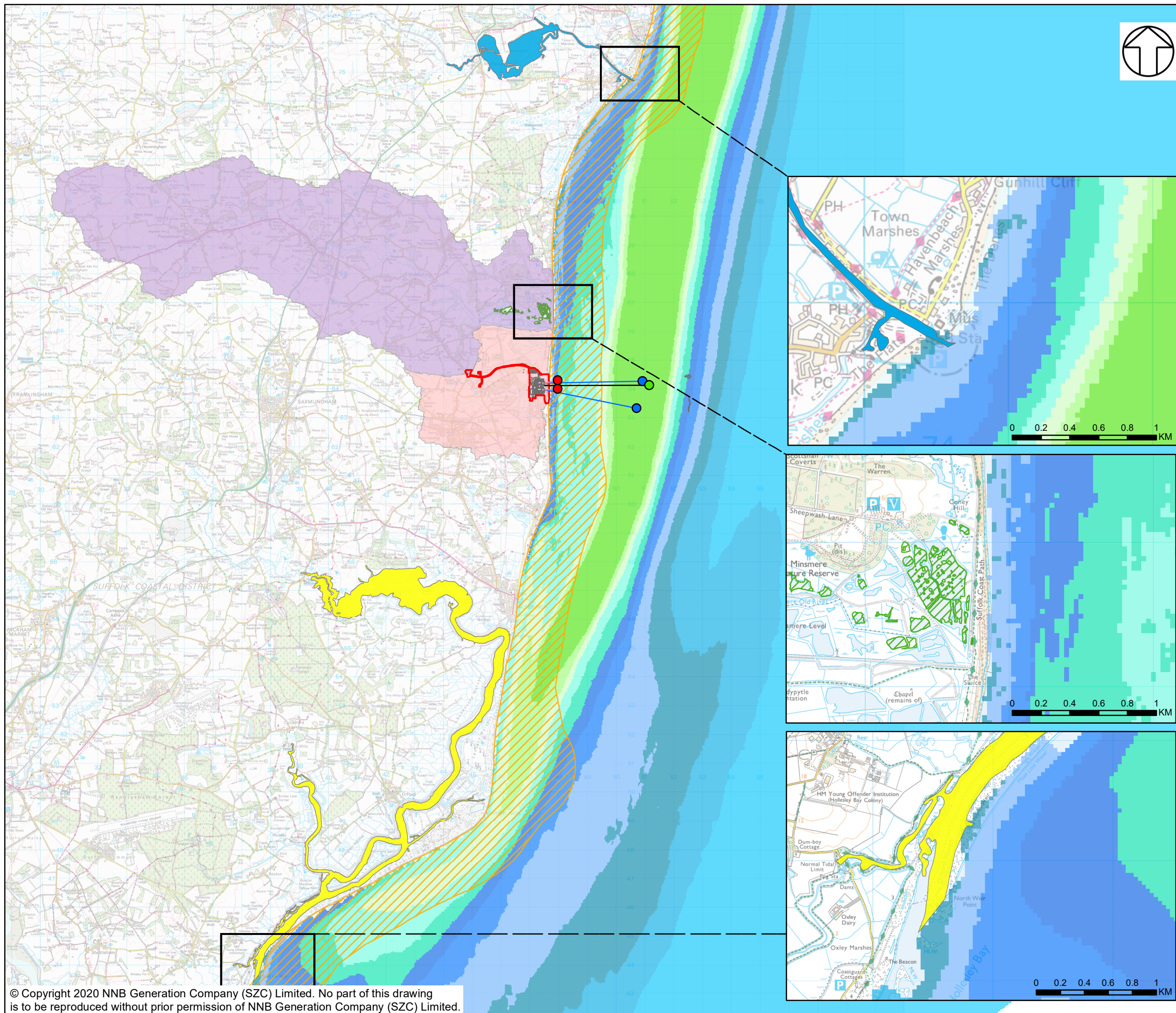
**DOCUMENT:**  
 SIZEWELL C  
 WFD COMPLIANCE ASSESSMENT  
 PART 2: MAIN DEVELOPMENT SITE  
 STAGE 3: FURTHER ASSESSMENT

**DRAWING TITLE:**  
 THERMAL PLUME AREAS AGAINST  
 THE SUFFOLK COASTAL WATER BODY  
 (UPLIFT SIZEWELL B AND SIZEWELL C,  
 SEABED)

**DRAWING NO:**  
 FIGURE 2.26

**DATE:** MARCH 2020      **DRAWN:** J.T.      **SCALE:** 1:125,000 @A3





**NOTES**

**KEY**

- OPERATIONAL SITE BOUNDARY
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
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- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION
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- MINSMERE OLD RIVER WFD RIVER WATER BODY CATCHMENT
- SUFFOLK WFD COASTAL WATER BODY
- WALBERSWICK MARSHES WFD COASTAL WATER BODY
- ALDE & ORE WFD TRANSITIONAL WATER BODY
- BLYTH (S) WFD TRANSITIONAL WATER BODY

**SEABED TEMPERATURE DIFFERENCE 98TH PERCENTILE (SZB + SZC) - SZB ONLY**

- >2°C
- >1°C
- >0.9°C
- >0.8°C
- >0.7°C
- >0.6°C
- >0.5°C
- >0.4°C
- >0.3°C
- >0.2°C
- >0.1°C
- >0°C

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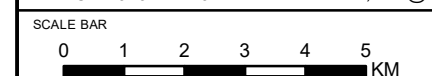


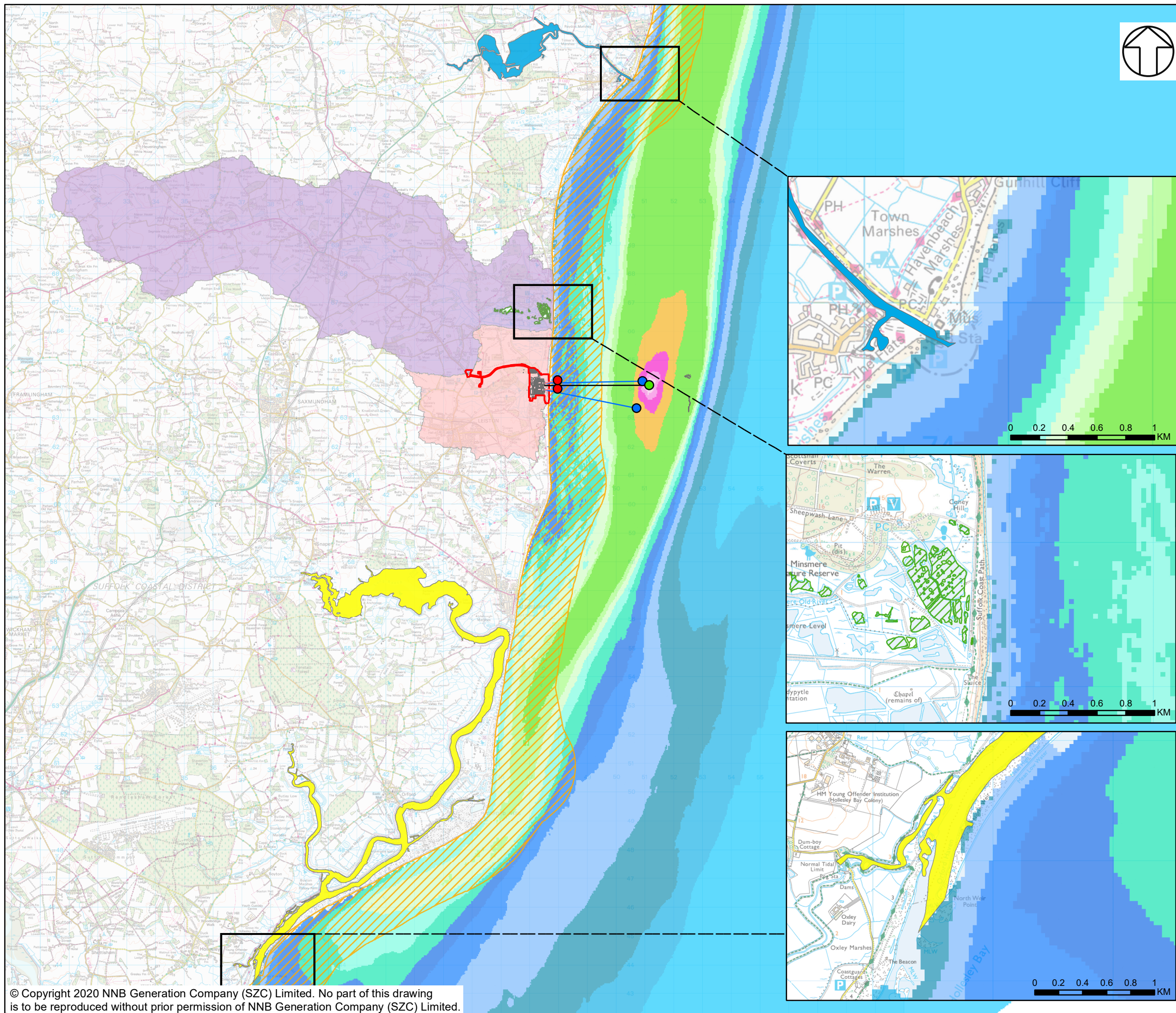
DOCUMENT:  
 SIZEWELL C  
 WFD COMPLIANCE ASSESSMENT  
 PART 2: MAIN DEVELOPMENT SITE  
 STAGE 3: FURTHER ASSESSMENT

DRAWING TITLE:  
 TEMPERATURE DIFFERENTIAL BETWEEN  
 THE SZB + SZC MODEL AND THE  
 SZB ONLY MODEL, CALCULATED BY  
 (SZB + SZC) - SZB ONLY = TEMP. DIFFERENCE.  
 (SEABED)

DRAWING NO:  
 FIGURE 2.27

DATE: MARCH 2020      DRAWN: J.T.      SCALE: 1:125,000 @A3





**NOTES**

**KEY**

- OPERATIONAL SITE BOUNDARY
- INTAKE TUNNEL
- COOLING WATER OUTFALL TUNNEL
- FISH RECOVERY AND RETURN (FRR)
- COOLING WATER DISCHARGE OUTFALL LOCATION
- COOLING WATER INTAKE LOCATION
- FISH RECOVERY AND RETURN (FRR) OUTFALLS
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- ALDE & ORE WFD TRANSITIONAL WATER BODY
- BLYTH (S) WFD TRANSITIONAL WATER BODY

**SURFACE TEMPERATURE DIFFERENCE 98TH PERCENTILE (SZB + SZC) - SZB ONLY**

- >7°C
- >0.8°C
- >6°C
- >0.7°C
- >5°C
- >0.6°C
- >4°C
- >0.5°C
- >3°C
- >0.4°C
- >2°C
- >0.3°C
- >1°C
- >0.2°C
- >0.9°C
- >0.1°C
- >0°C

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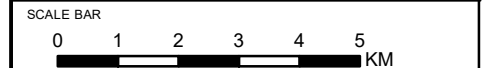


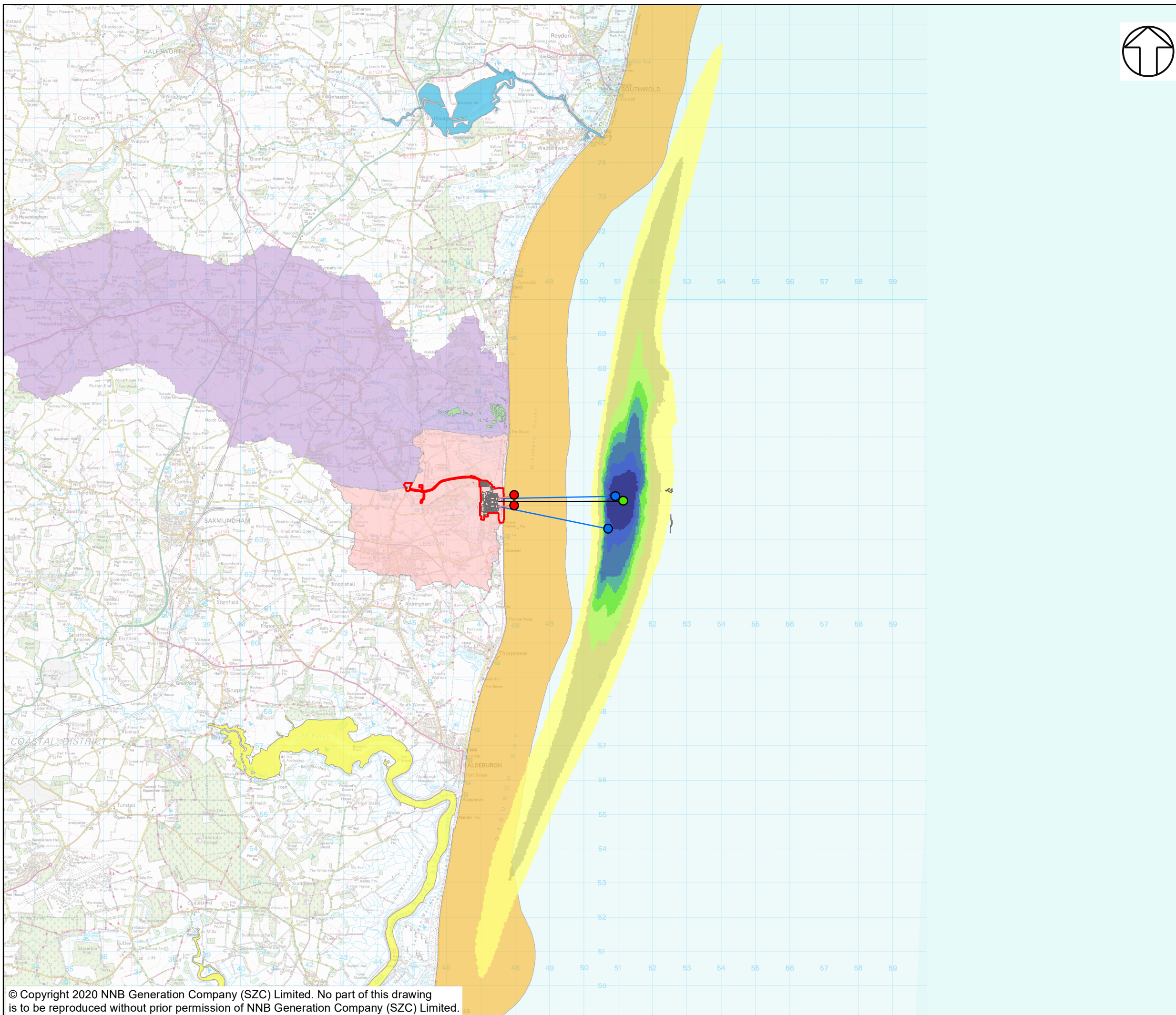
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 WFD COMPLIANCE ASSESSMENT  
 PART 2: MAIN DEVELOPMENT SITE  
 STAGE 3: FURTHER ASSESSMENT

**DRAWING TITLE:**  
 TEMPERATURE DIFFERENCE BETWEEN THE SZB + SZC MODEL AND THE SZB ONLY MODEL, CALCULATED BY (SZB + SZC) - SZB ONLY = TEMP. DIFFERENCE. (SURFACE)

**DRAWING NO:**  
 FIGURE 2.28

**DATE:** MARCH 2020      **DRAWN:** J.T.      **SCALE:** 1:125,000 @A3





**NOTES**

**KEY**

- OPERATIONAL SITE BOUNDARY
- INTAKE TUNNEL
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- BLYTH (S) WFD TRANSITIONAL WATER BODY

**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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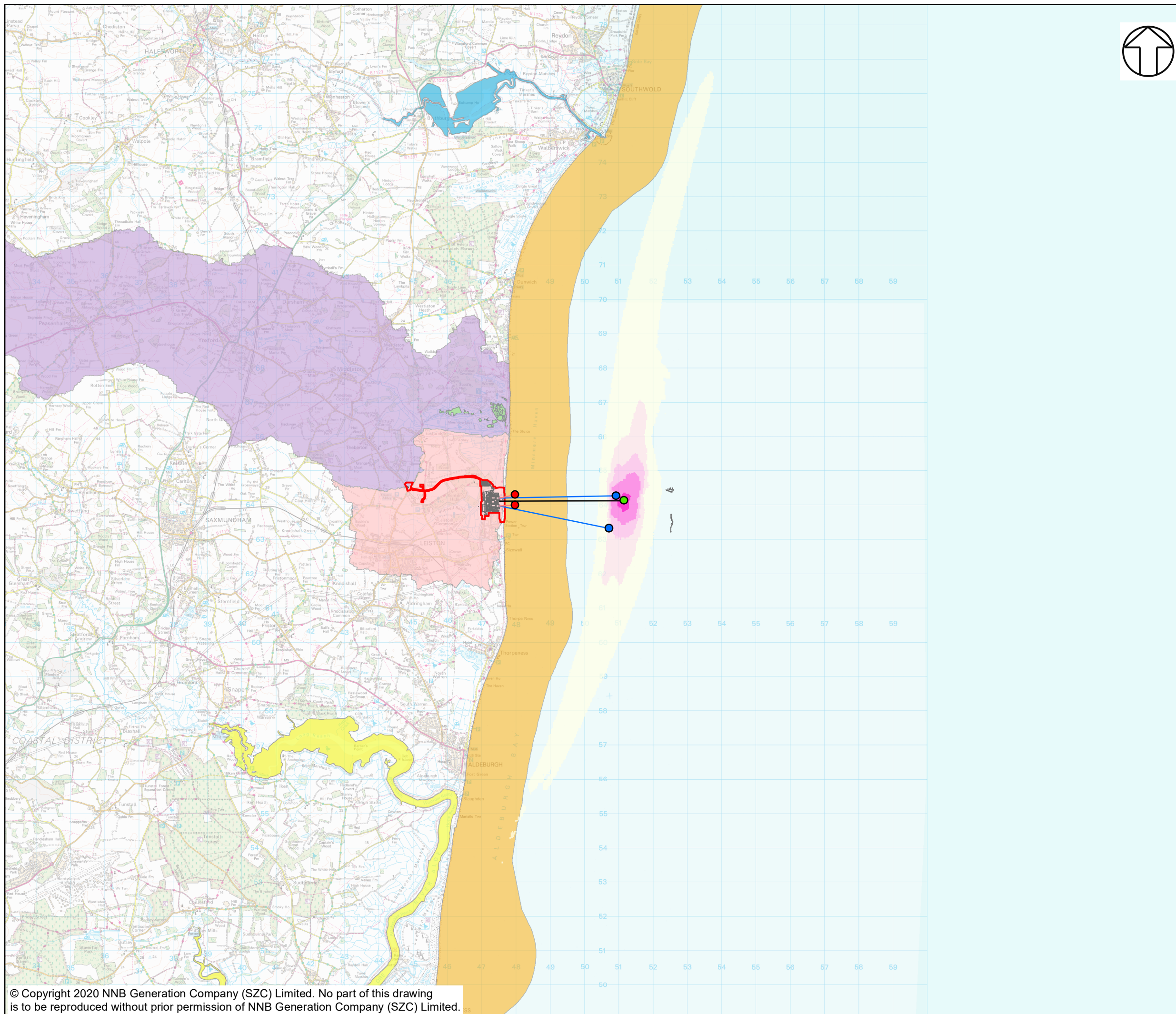
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 SIZEWELL C  
 WFD COMPLIANCE ASSESSMENT  
 PART 2: MAIN DEVELOPMENT SITE  
 STAGE 3: FURTHER ASSESSMENT

**DRAWING TITLE:**  
 TRO CONCENTRATIONS IN RELATION TO WFD WATER BODIES FOR SIZEWELL C

**DRAWING NO:**  
 FIGURE 2.29

**DATE:** MARCH 2020      **DRAWN:** J.T.      **SCALE:** 1:105,000 @A3





**NOTES**

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**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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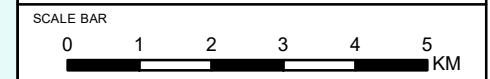


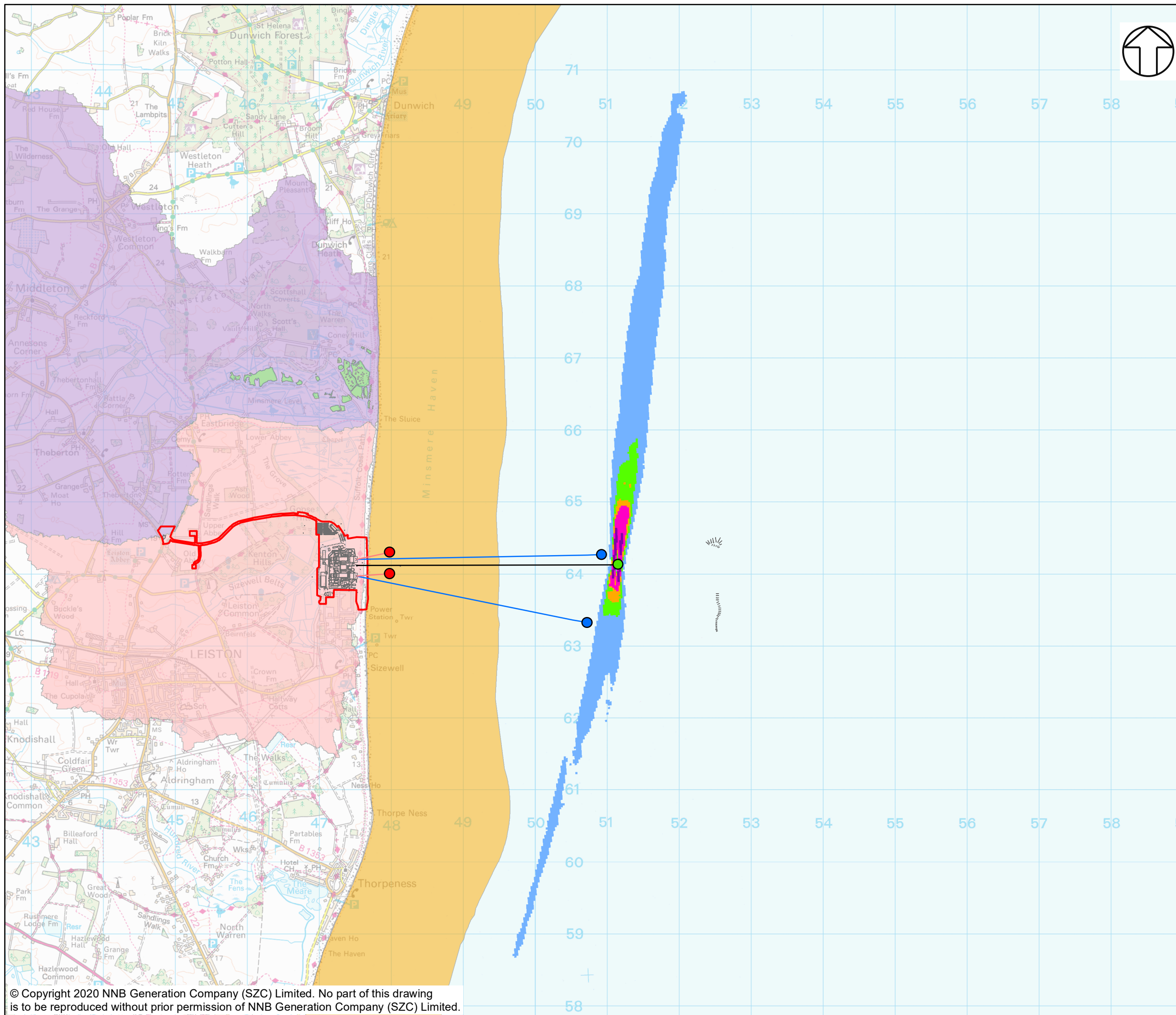
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 WFD COMPLIANCE ASSESSMENT  
 PART 2: MAIN DEVELOPMENT SITE  
 STAGE 3: FURTHER ASSESSMENT

**DRAWING TITLE:**  
 BROMOFORM CONCENTRATIONS IN  
 RELATION TO WFD WATER BODIES  
 FOR SIZEWELL C

**DRAWING NO:**  
 FIGURE 2.30

**DATE:** MARCH 2020      **DRAWN:** J.T.      **SCALE:** 1:105,000 @A3





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**PLUME EXTENT OF HYDRAZINE OF THE 95TH PERCENTILE**

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

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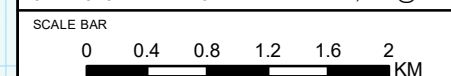


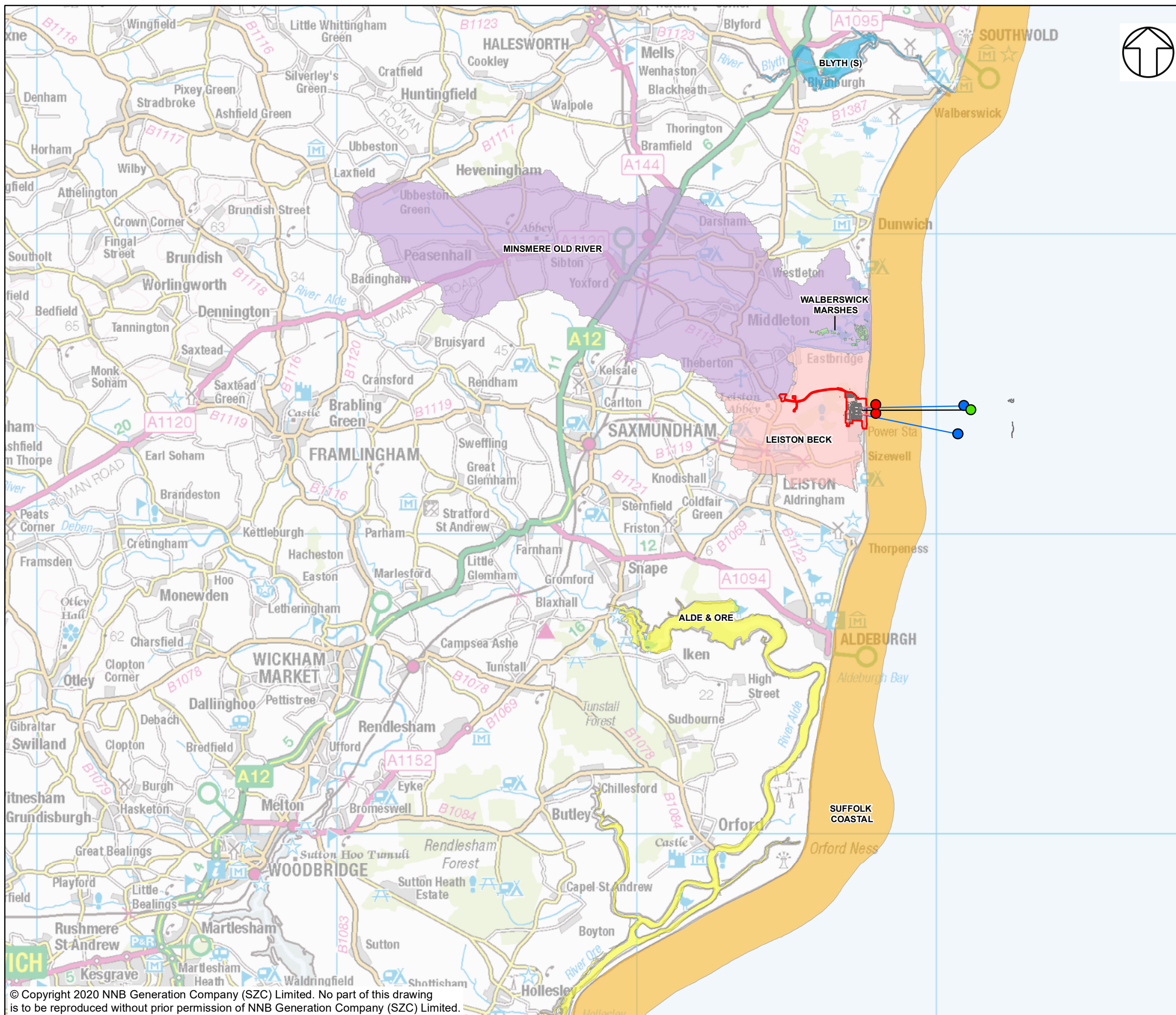
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 WFD COMPLIANCE ASSESSMENT  
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 STAGE 3: FURTHER ASSESSMENT

**DRAWING TITLE:**  
 SHOWS HYDRAZINE CONCENTRATIONS  
 IN RELATION TO THE WFD WATER BODY

**DRAWING NO:**  
 FIGURE 2.31

**DATE:** JAN 2020      **DRAWN:** J.T.      **SCALE:** 1:50,000 @A3





**NOTES**

**KEY**

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**DOCUMENT:**  
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 WFD COMPLIANCE ASSESSMENT  
 PART 2: MAIN DEVELOPMENT SITE  
 STAGE 3: FURTHER ASSESSMENT

**DRAWING TITLE:**  
 ADJOINING WFD WATER BODIES

**DRAWING NO:**  
 FIGURE 2.32

**DATE:** JAN 2020      **DRAWN:** J.T.      **SCALE:** 1:120,000 @A3

