

Great Yarmouth Third River Crossing

Application for Development Consent Order

Document 6.3: Environmental Statement Volume III: ES Figures – Chapter 12 & Appendices

Planning Act 2008

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 (as amended) (“APFP”)**

APFP regulation Number: 5(2)(a)

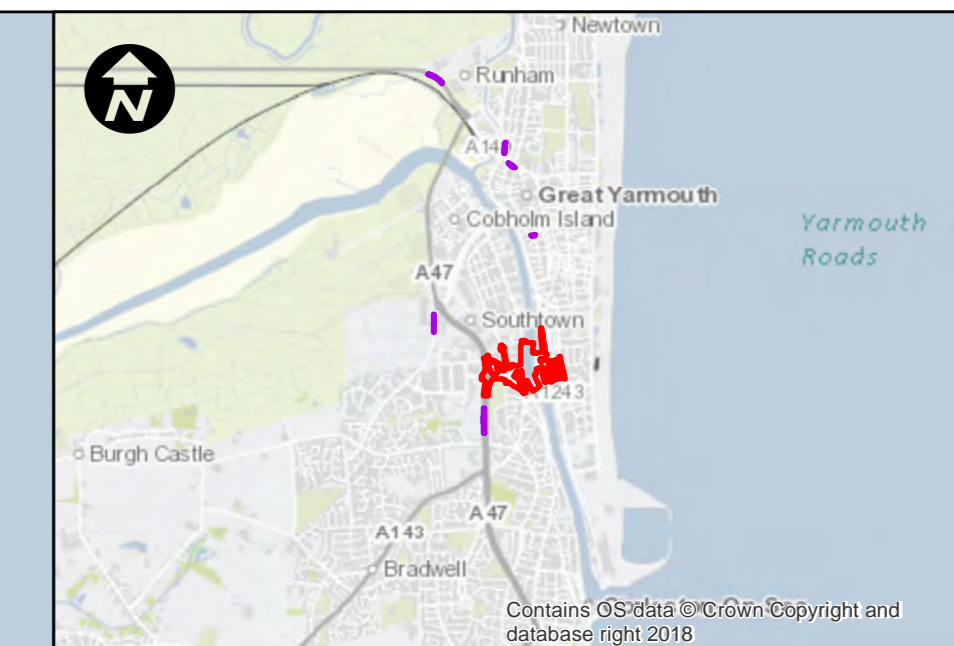
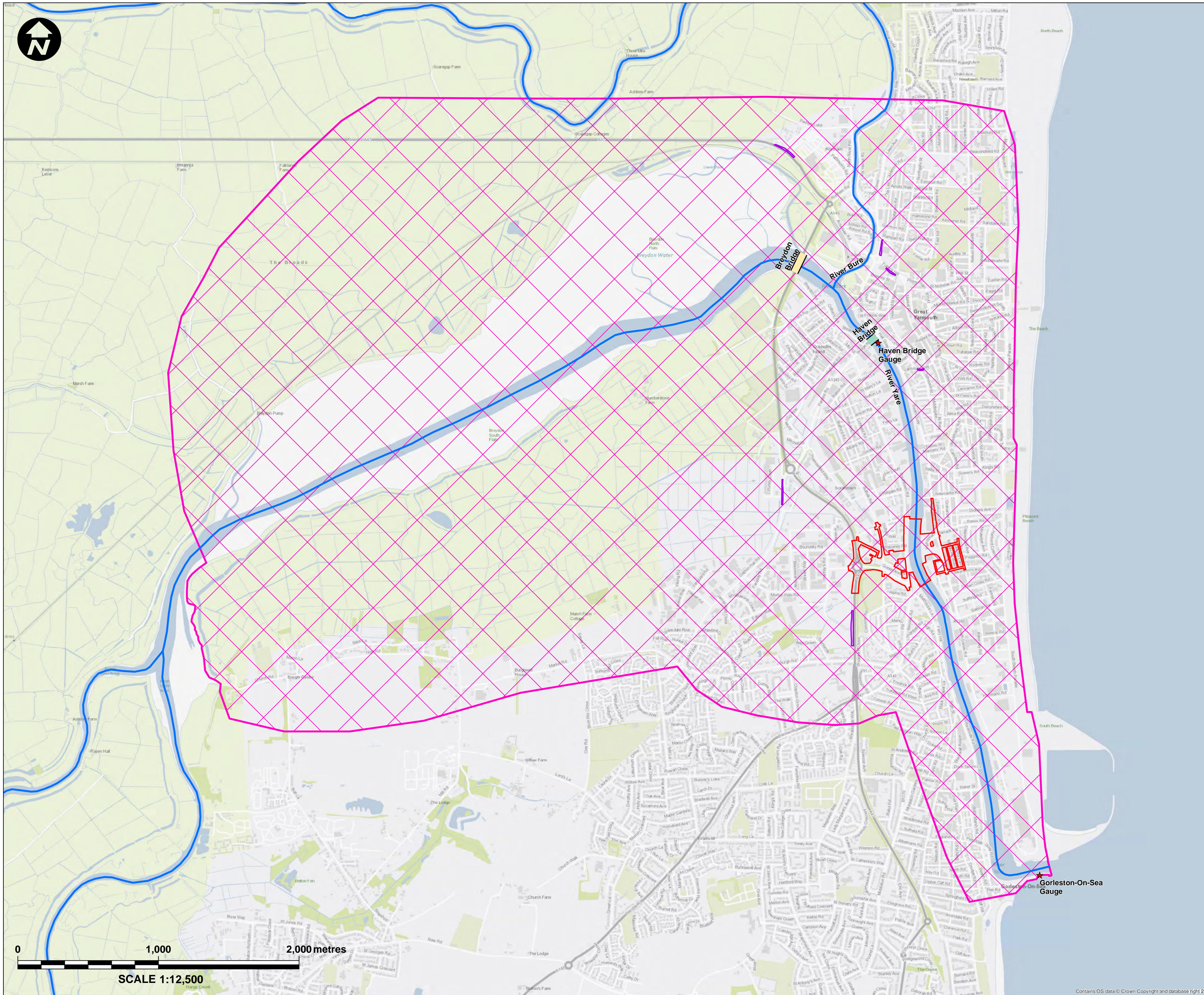
Planning Inspectorate Reference Number: TR010043

Author: Norfolk County Council

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Version Number: 0 – Revision for Submission

Date: 30 April 2019



- Key:**
- Principal Application Site
 - Satellite Application Sites
 - ★ Gauges
 - EA Main Rivers
 - Study Area
- Existing Bridges**
- Breydon Bridge
 - Haven Bridge

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 Norwich NR1 2SG

PROJECT TITLE

**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE

FIGURE 12.1
 FLOOD RISK STUDY AREA
 (REGULATION 5(2)(a))

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FOR DCO APPLICATION

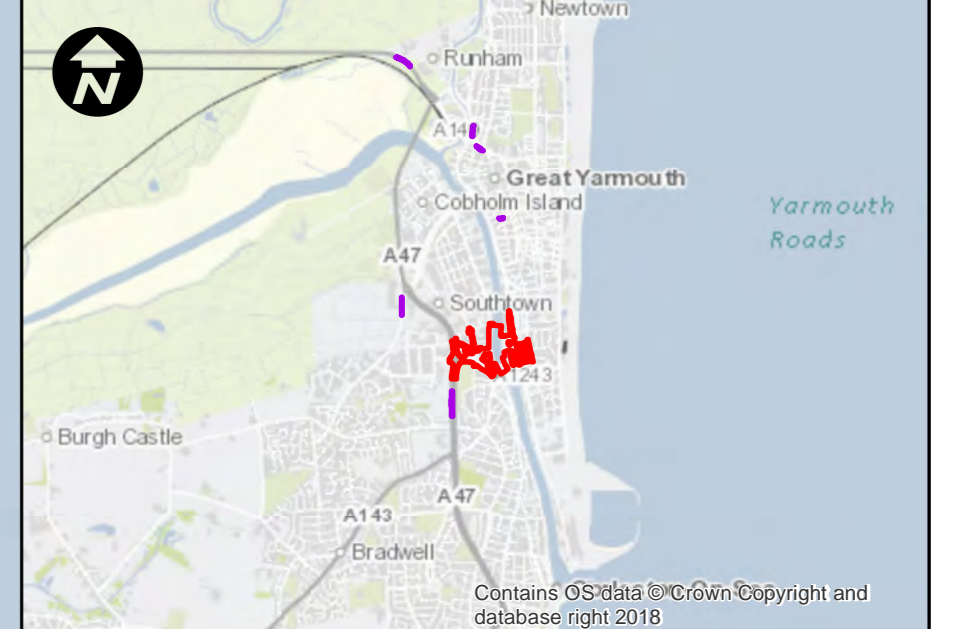
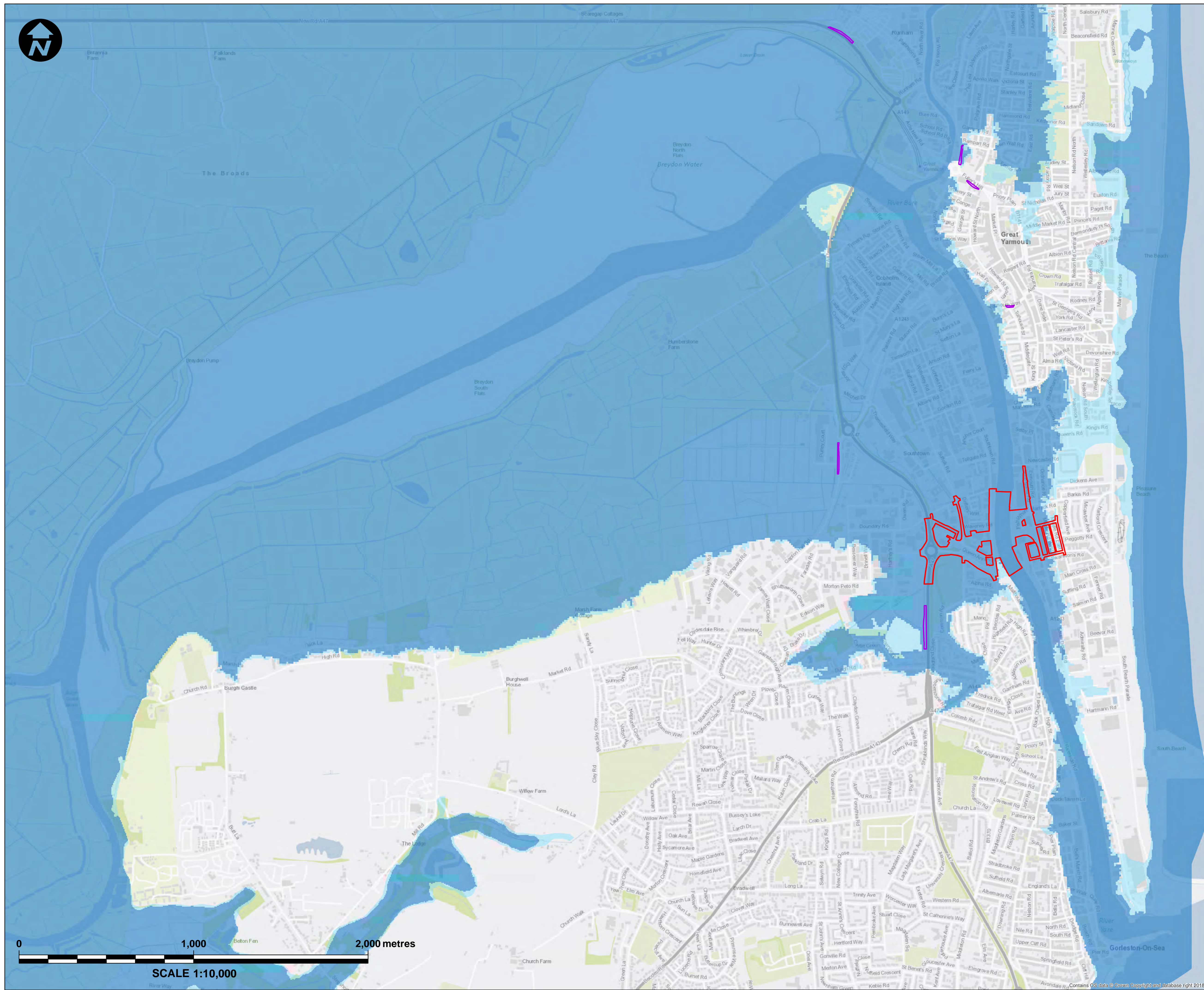
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- Key:**
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 - Satellite Application Sites
 - Flood Zone 2
 - Flood Zone 3

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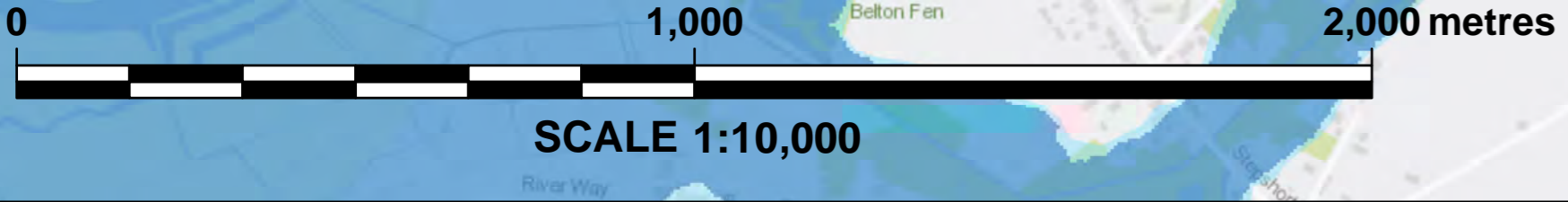
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**FIGURE 12.2
 ENVIRONMENT AGENCY FLOOD
 MAP FOR PLANNING
 (REGULATION 5(2)(a))**

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FOR DCO APPLICATION

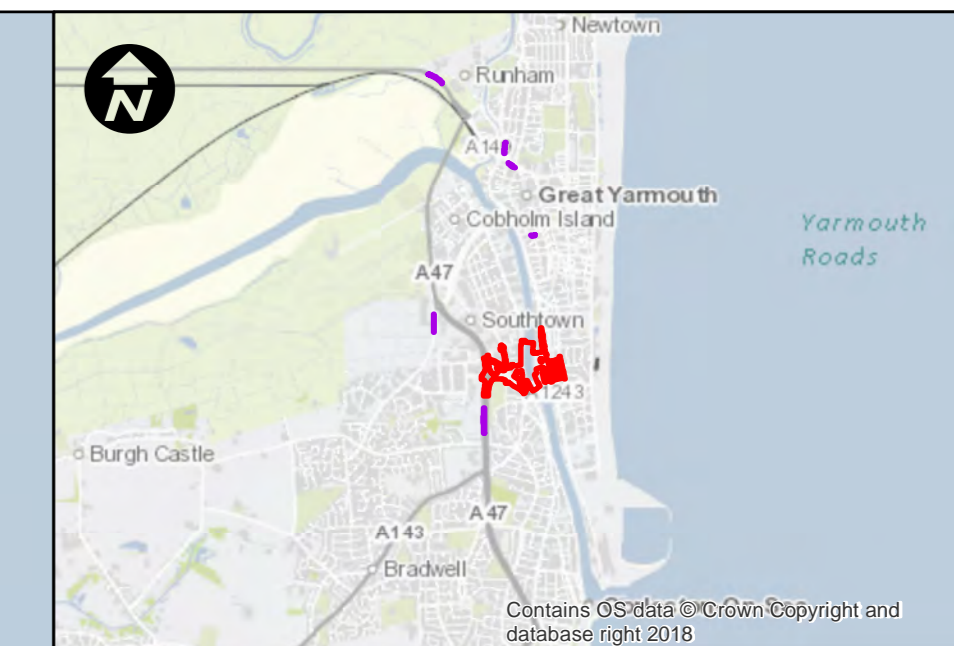
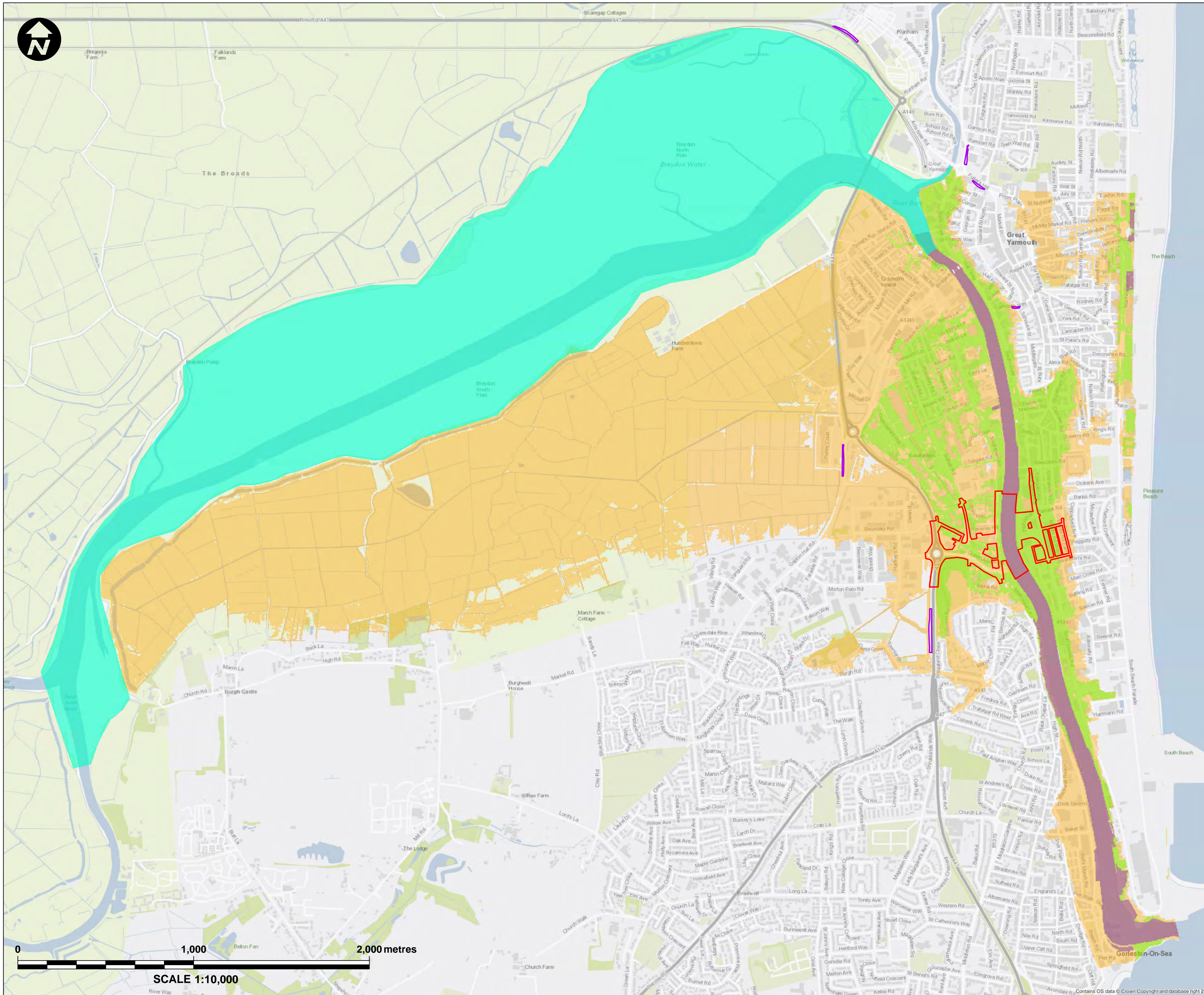
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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Breydon Water
 - 5% Annual Exceedance Probability (AEP) Event
 - 0.5% Annual Exceedance Probability (AEP) Event
 - 0.1% Annual Exceedance Probability (AEP) Event

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PROJECT TITLE
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 THIRD RIVER CROSSING**

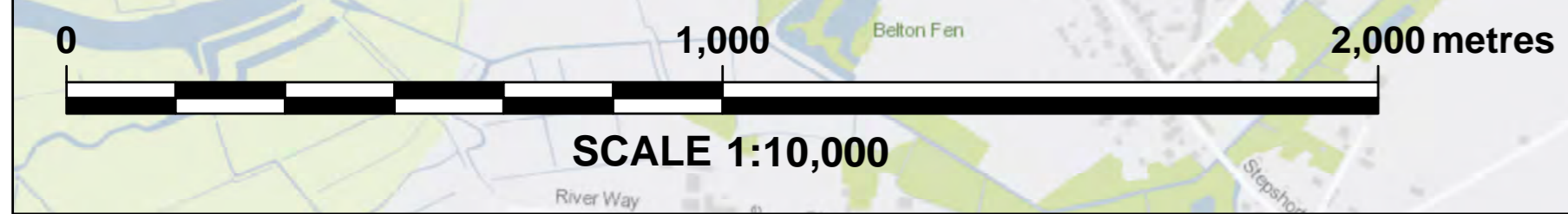
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**FIGURE 12.3
 BASELINE PRESENT DAY
 MODELLED FLOOD EXTENTS
 (REGULATION 5(2)(a))**

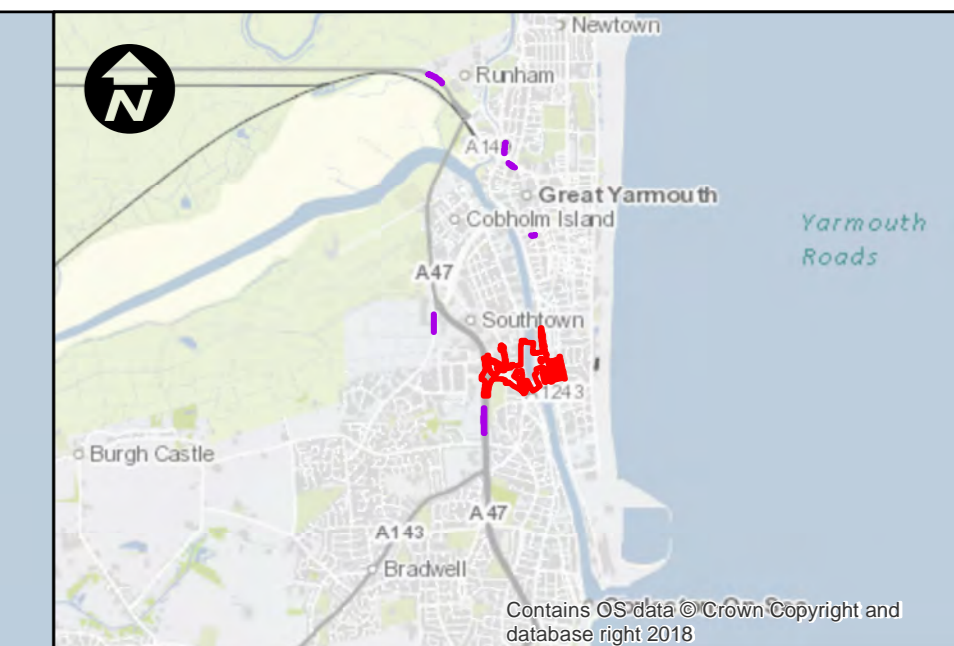
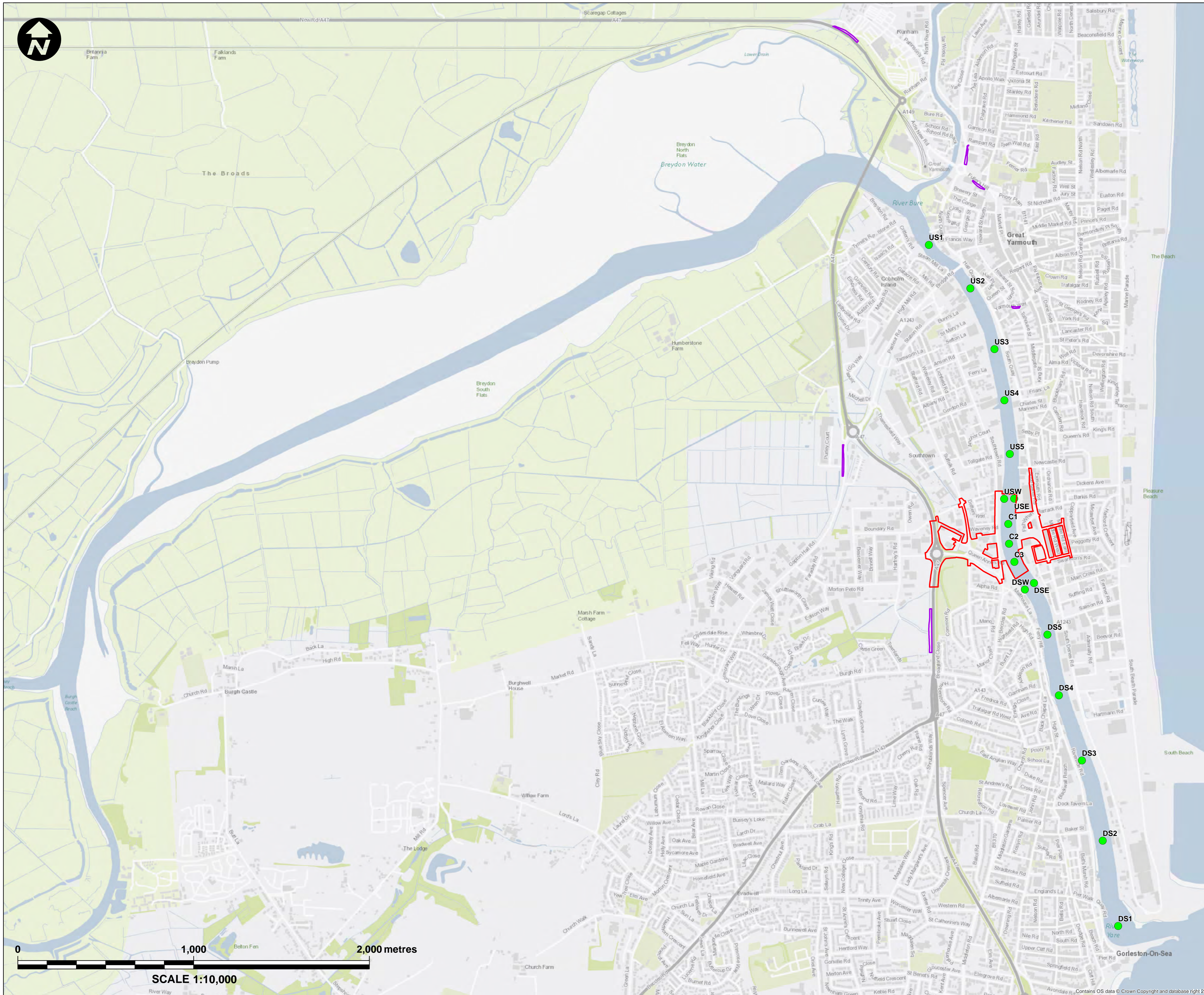
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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Comparison Points
- US** = Upstream
USW = Upstream West
USE = Upstream East
C = Central
DS = Downstream
DSW = Downstream West
DSE = Downstream East

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 THIRD RIVER CROSSING**

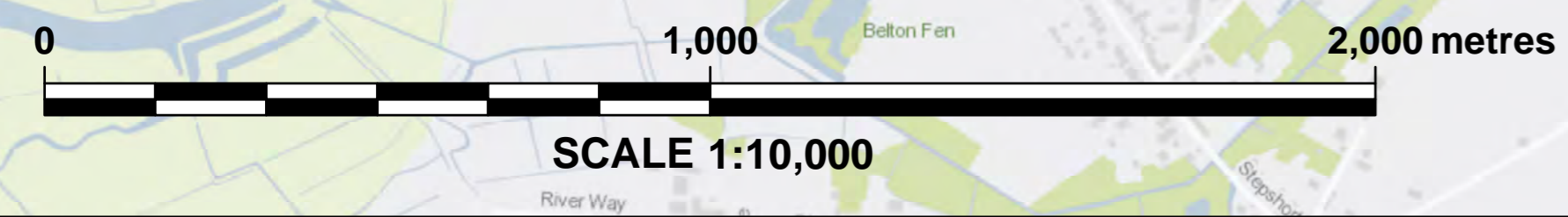
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**FIGURE 12.4
 RIVER YARE COMPARISON
 POINTS
 (REGULATION 5(2)(a))**

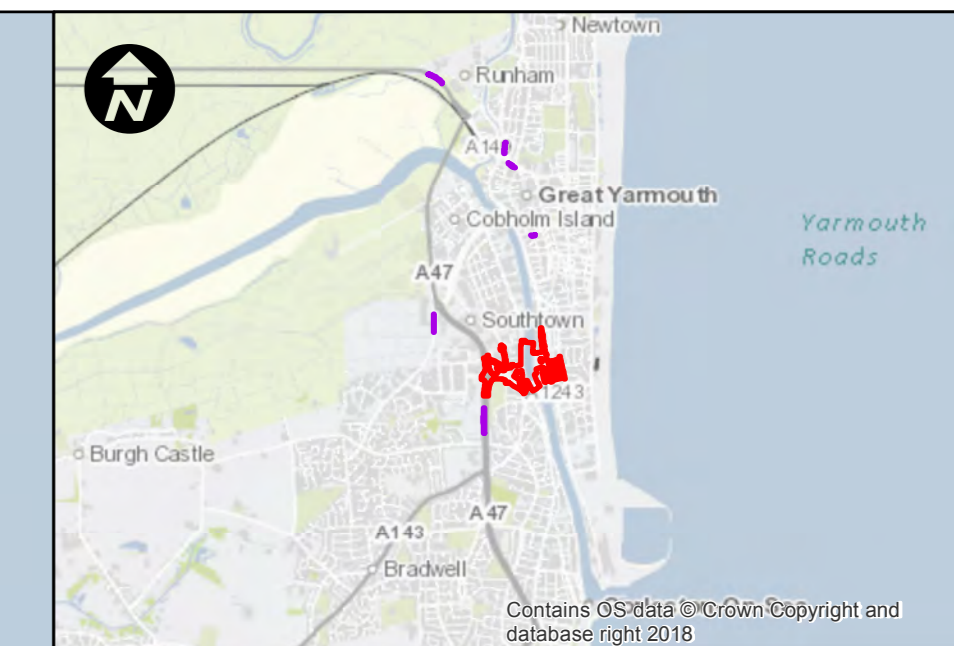
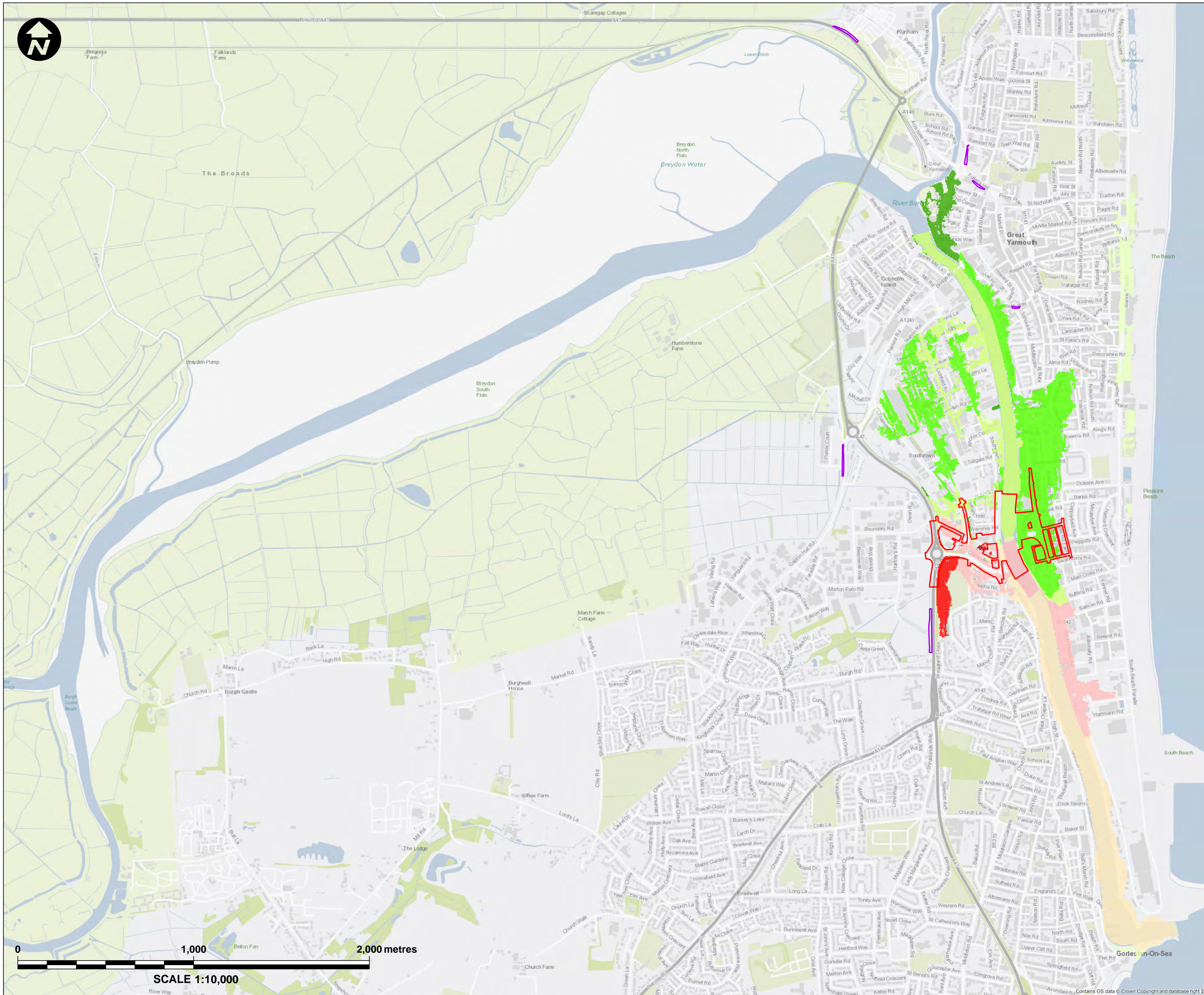
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Key:

- Principal Application Site
- Satellite Application Sites

Change in Flood Depth (m)

- Greater than -0.3
- 0.1 to -0.3
- 0.02 to -0.1
- 0 to -0.02
- 0
- 0 to 0.02
- 0.02 to 0.1
- 0.1 to 0.3
- Greater than 0.3

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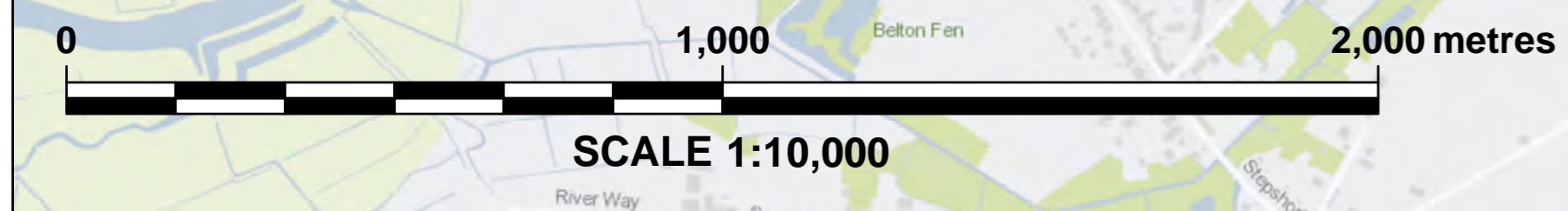
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 FIGURE 12.5
 SCHEME – BASELINE COMPARISON,
 0.5% AEP PRESENT DAY EVENT
 (REGULATION 5(2)(a))

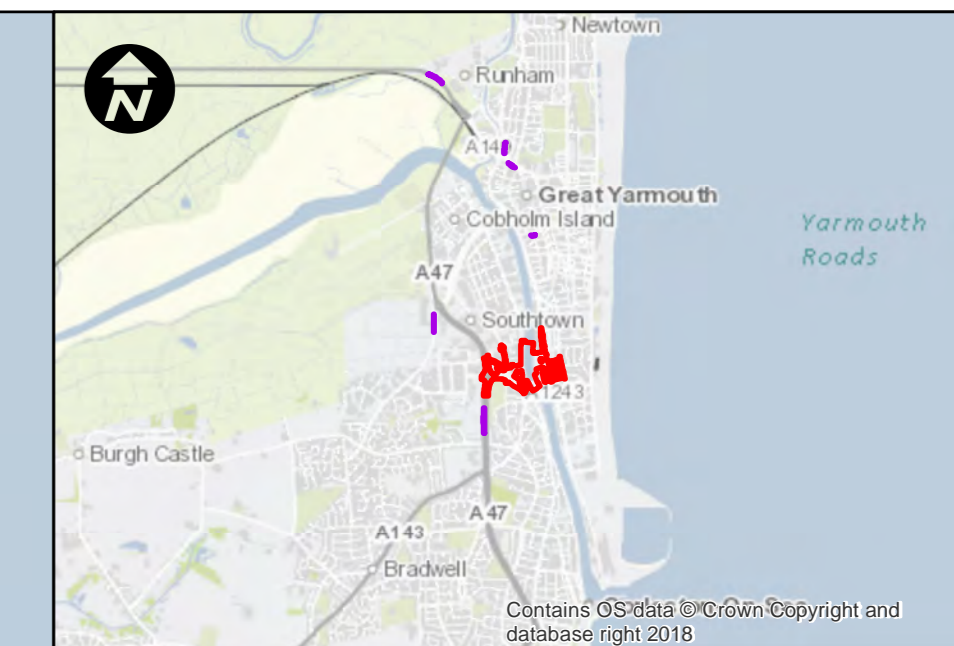
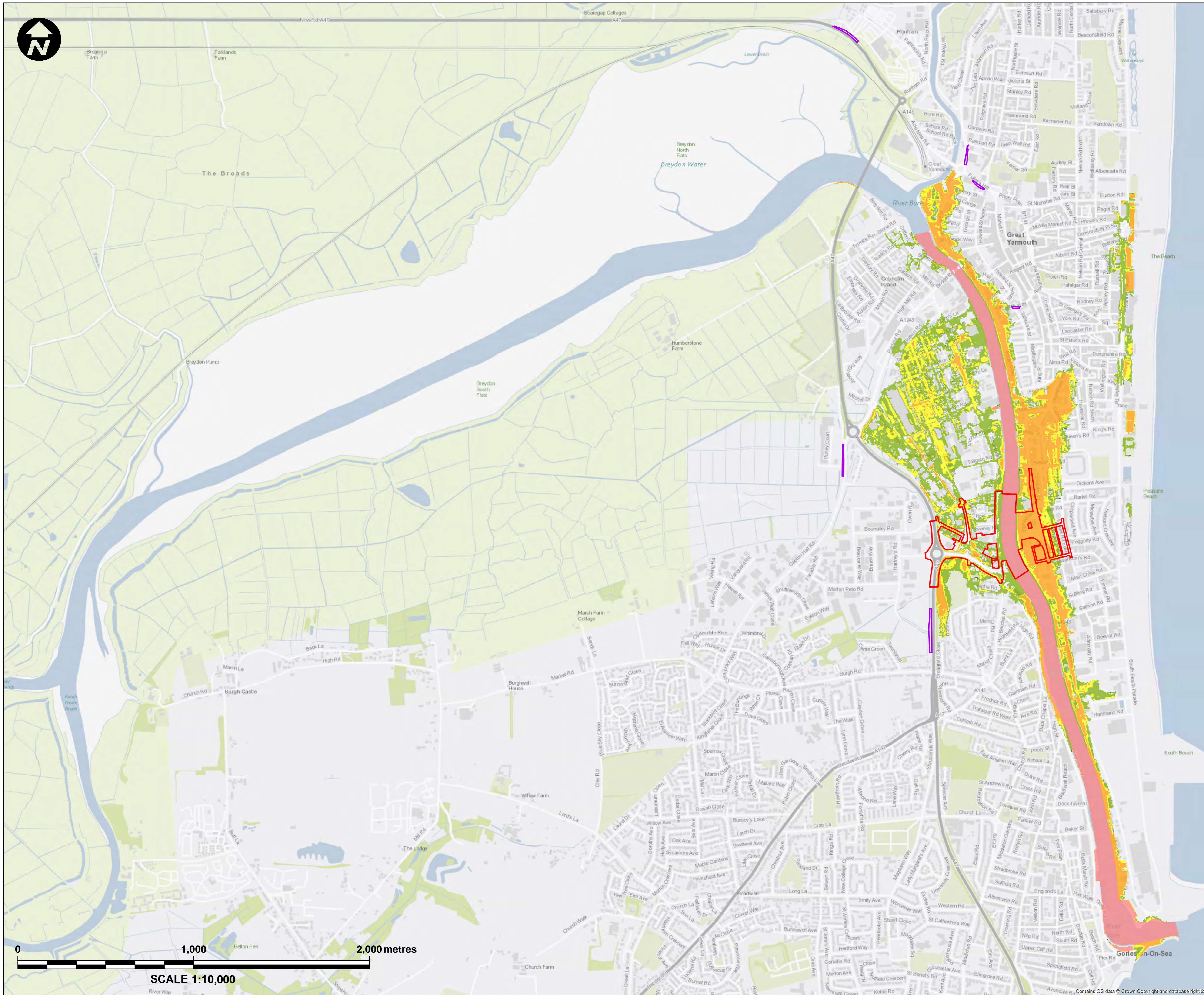
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Key:

- Principal Application Site
- Satellite Application Sites

Flood Hazard to People

- No Hazard
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

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PROJECT TITLE

**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE

**FIGURE 12.6
 FLOOD HAZARD RATING, BASELINE
 0.5% AEP PRESENT DAY EVENT
 (REGULATION 5(2)(a))**

DRAWING STATUS

FOR DCO APPLICATION

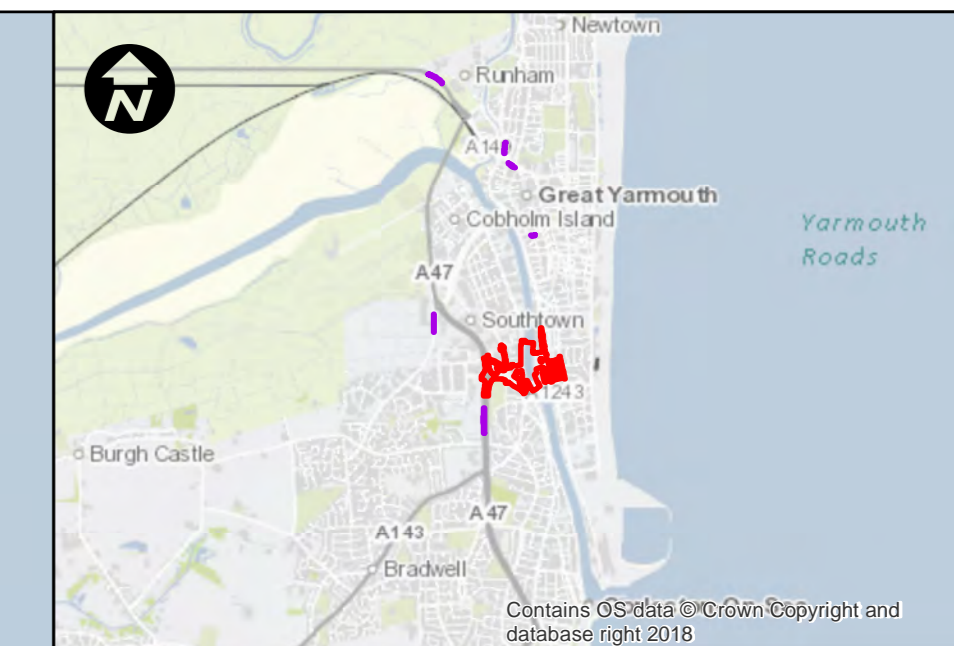
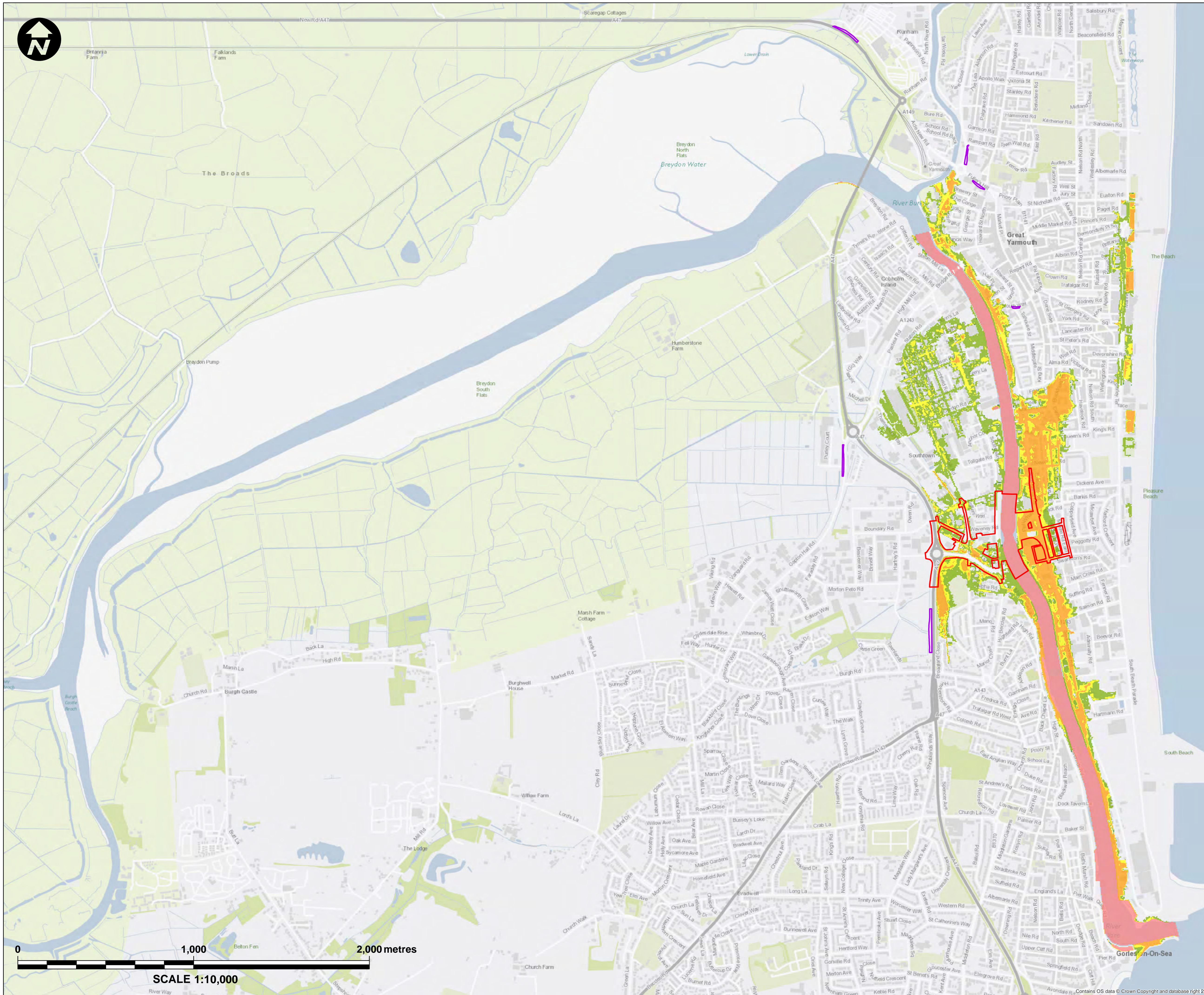
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- Key:**
- Principal Application Site
 - Satellite Application Sites
- Flood Hazard to People**
- No hazard
 - Very low hazard
 - Danger for some
 - Danger for most
 - Danger for all

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GREAT YARMOUTH THIRD RIVER CROSSING

DRAWING TITLE

FIGURE 12.7 FLOOD HAZARD RATING, SCHEME 0.5% AEP PRESENT DAY EVENT (REGULATION 5(2)(a))

DRAWING STATUS

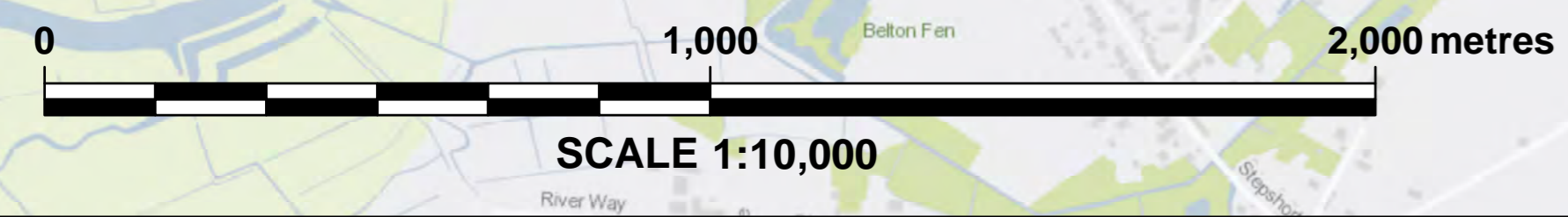
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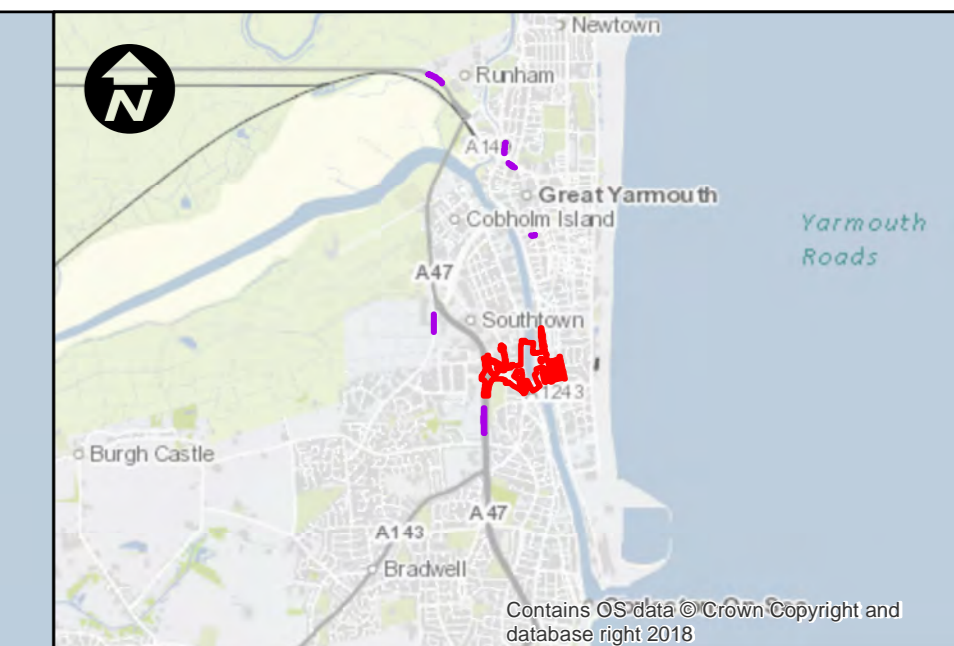
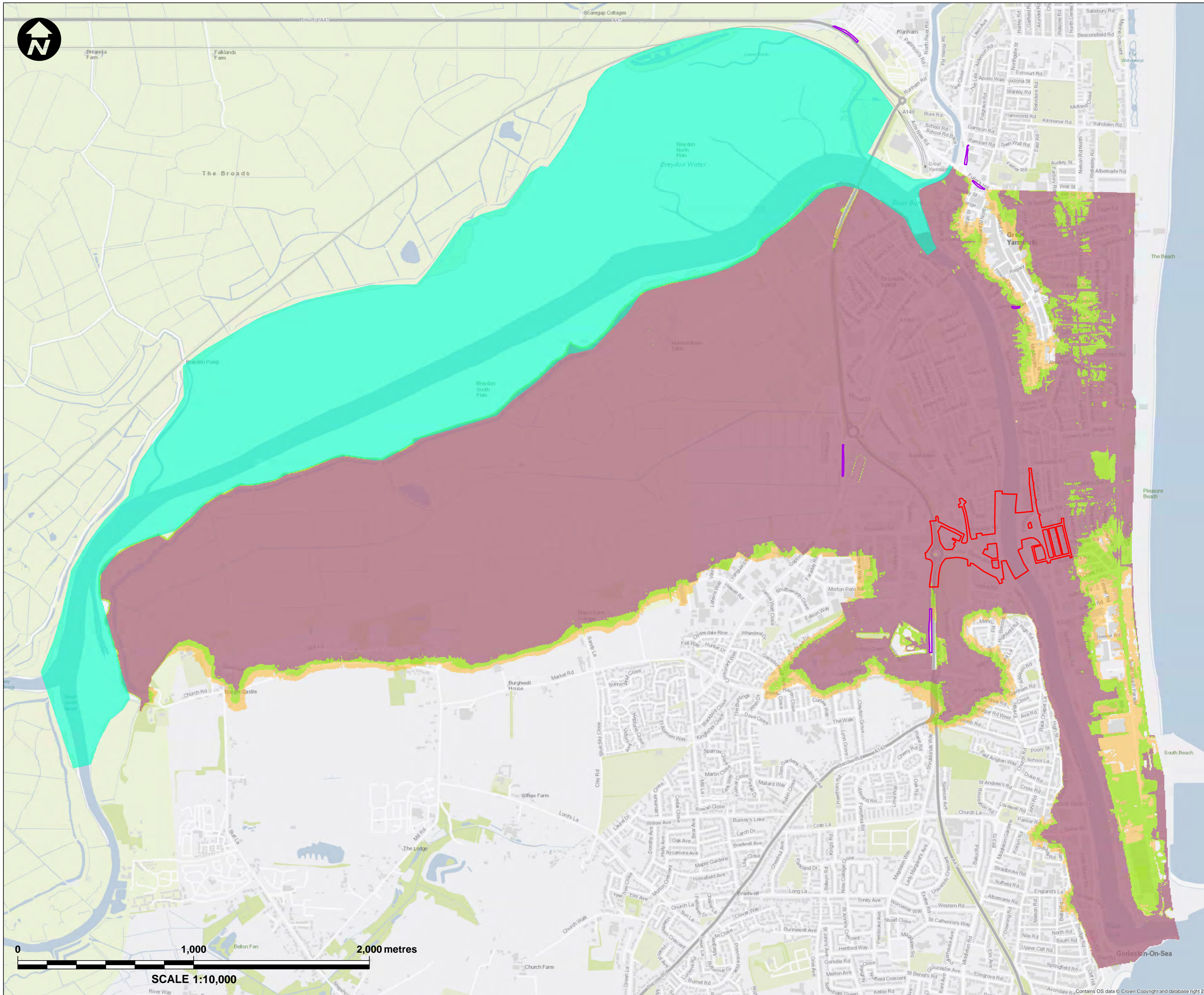
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- Key:**
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 - 5% Annual Exceedance Probability (AEP) Event
 - 0.5% AEP Event
 - 0.1% AEP Event

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 THIRD RIVER CROSSING**

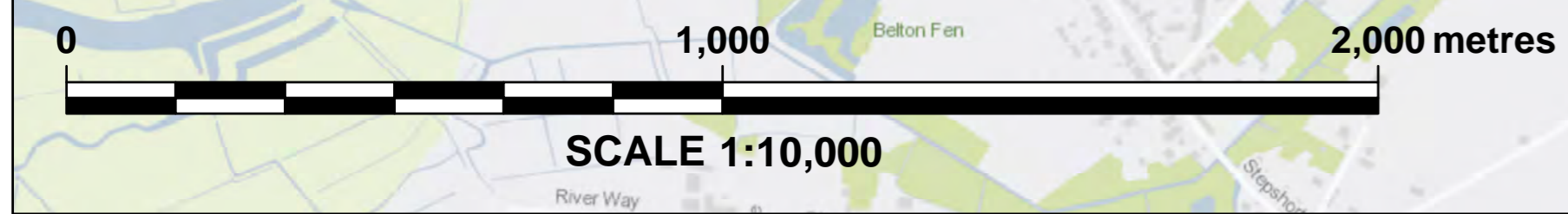
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**FIGURE 12.8
 BASELINE CLIMATE CHANGE
 MODELLED FLOOD EXTENTS
 (REGULATION 5(2)(a))**

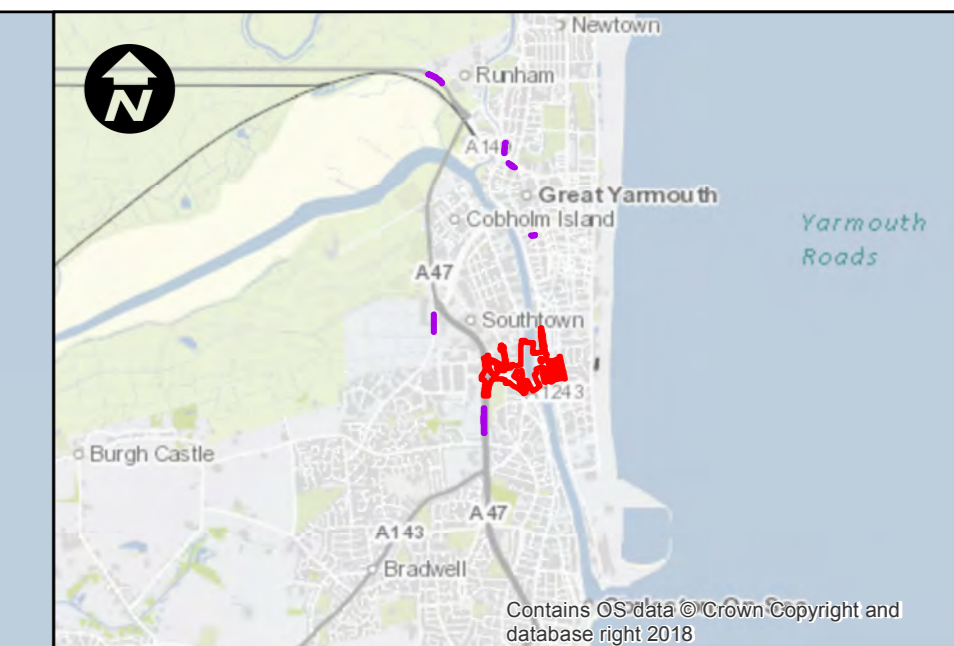
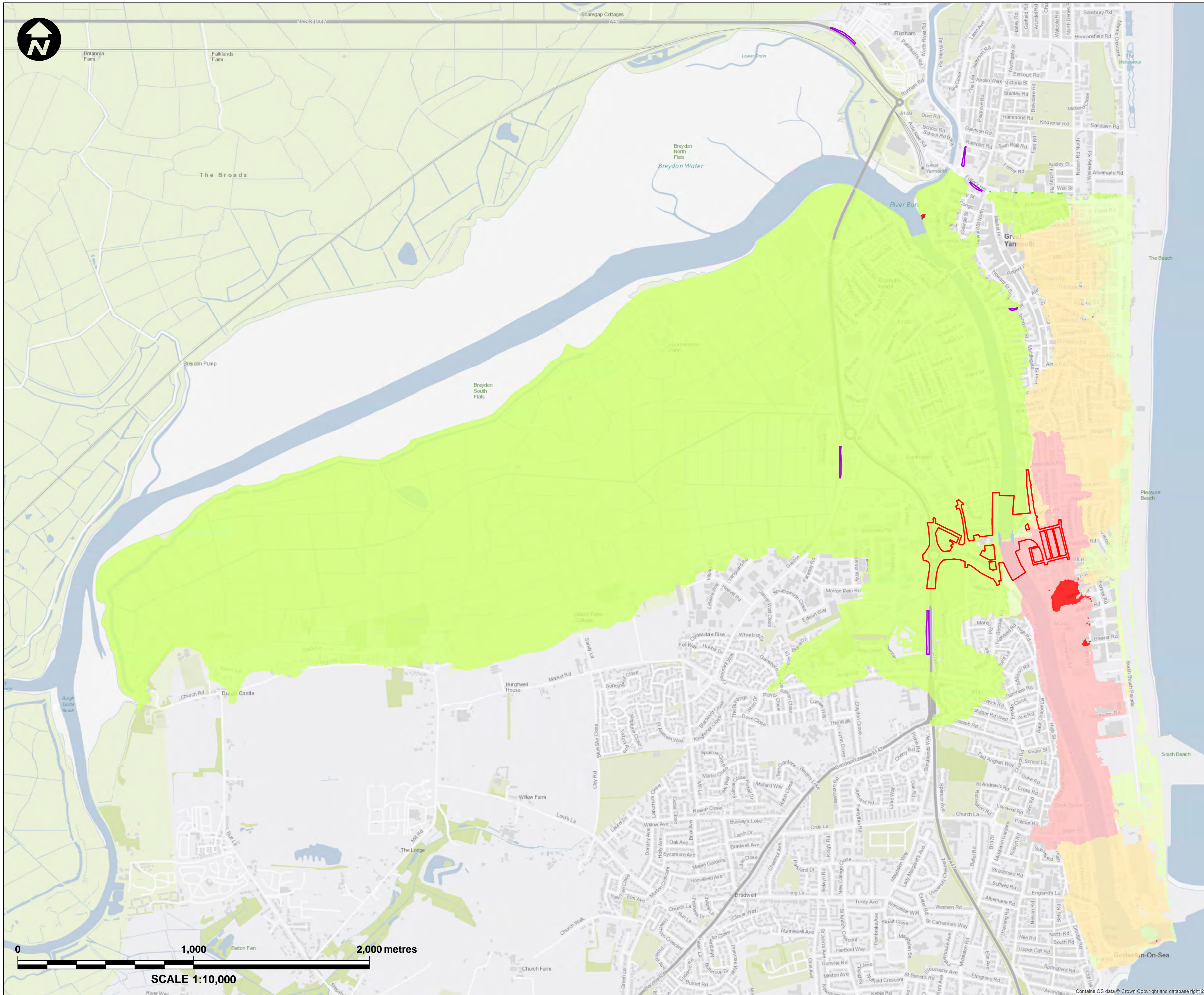
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Key:

- Principal Application Site
- Satellite Application Sites

Change in flood depth (m)

- Greater than -0.3
- 0.1 to -0.3
- 0.02 to -0.1
- 0 to -0.02
- 0
- 0 to 0.02
- 0.02 to 0.1
- 0.1 to 0.3
- Greater than 0.3

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

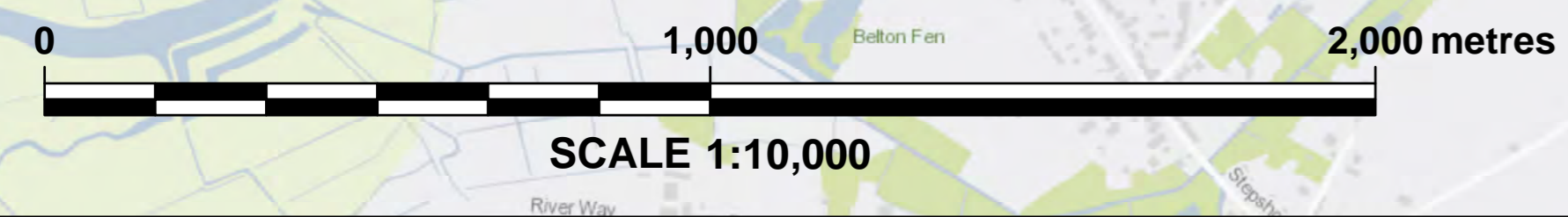
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 FIGURE 12.9
 SCHEME – BASELINE COMPARISON,
 0.5% AEP CLIMATE CHANGE EVENT
 (REGULATION 5(2)(a))

DRAWING STATUS
 FOR DCO APPLICATION

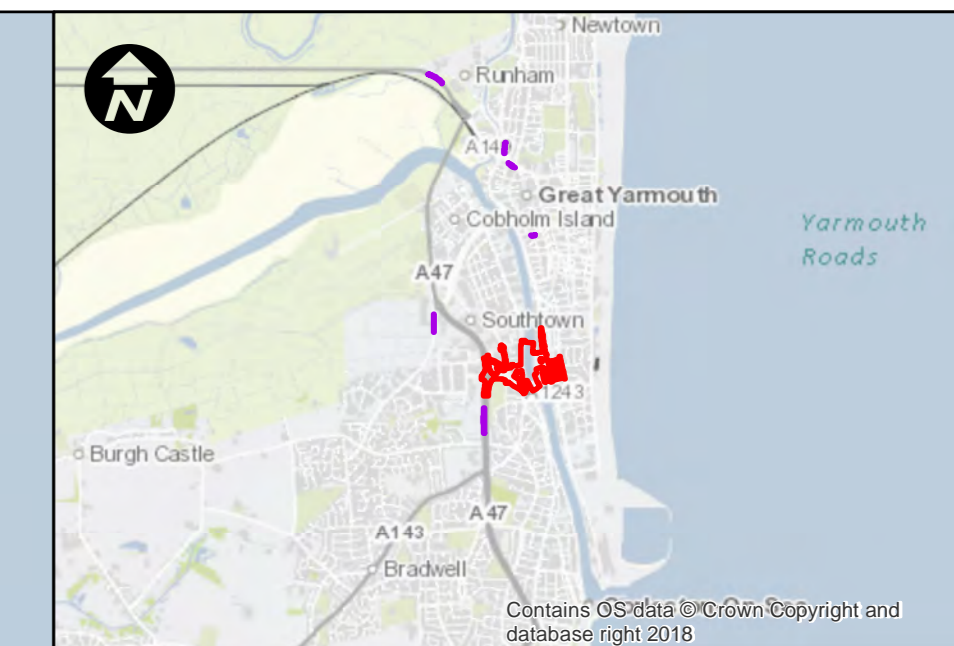
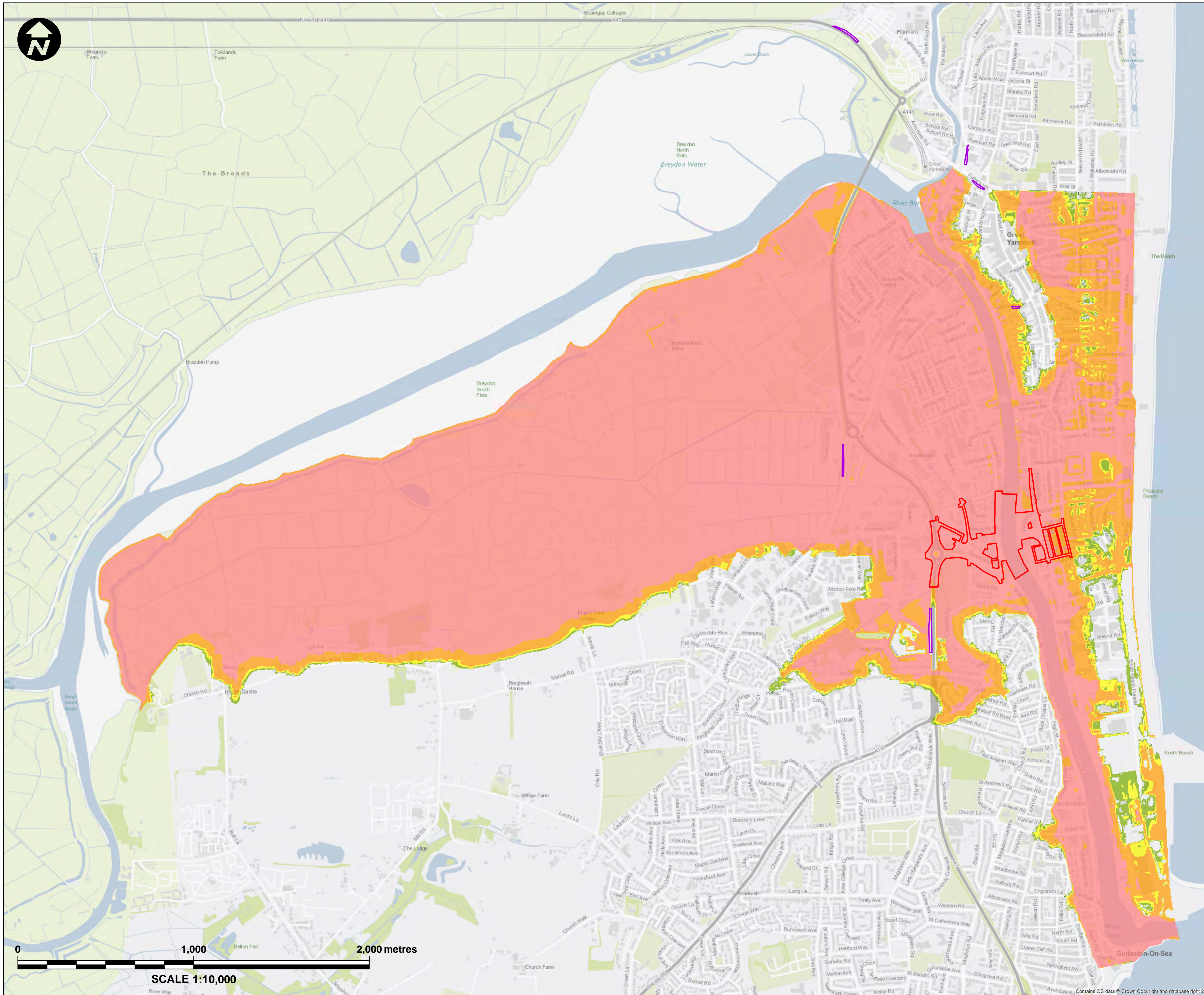
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Key:

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Flood Hazard to People

- No hazard
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

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PROJECT TITLE

**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE

FIGURE 12.10
 FLOOD HAZARD RATING, BASELINE
 0.5% AEP CLIMATE CHANGE EVENT
 (REGULATION 5(2)(a))

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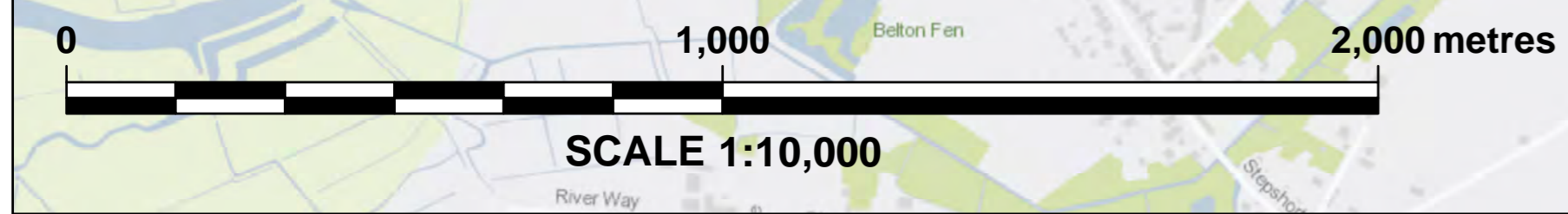
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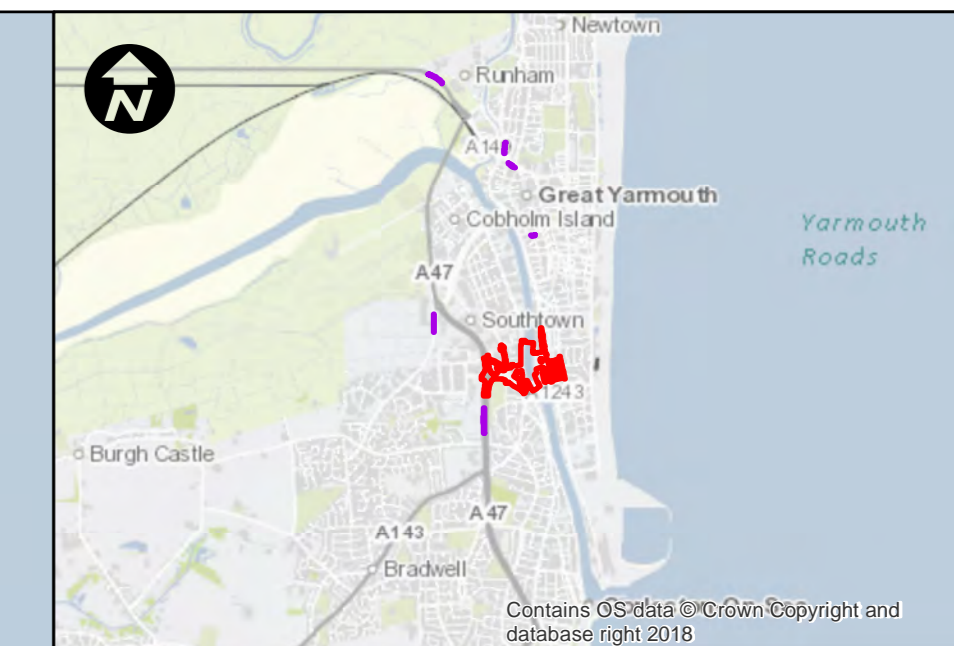
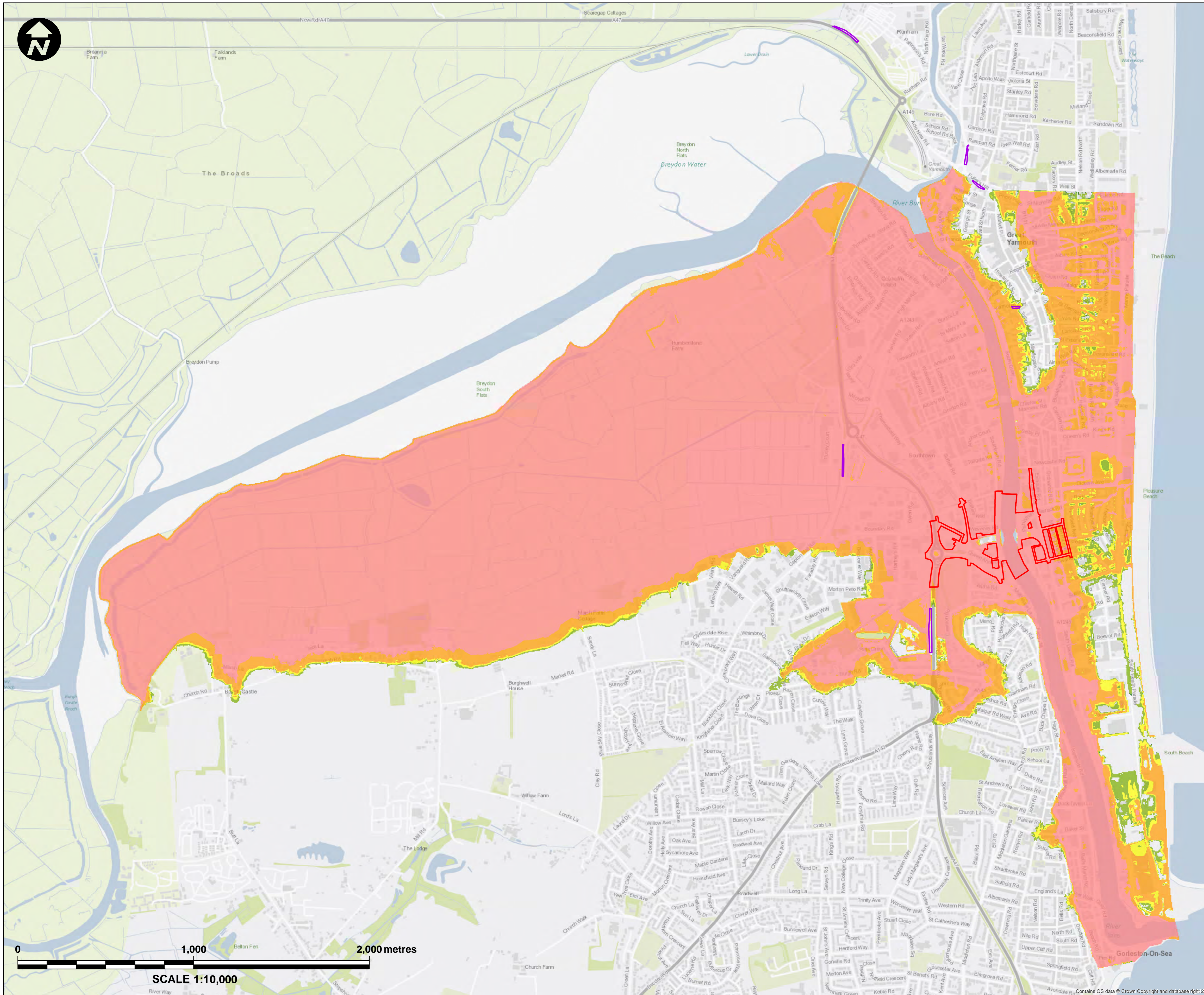
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Key:

- Principal Application Site
- Satellite Application Sites

Flood Hazard to People

- No hazard
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

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GREAT YARMOUTH THIRD RIVER CROSSING

DRAWING TITLE

FIGURE 12.11 FLOOD HAZARD RATING, SCHEME 0.5% AEP CLIMATE CHANGE EVENT (REGULATION 5(2)(a))

DRAWING STATUS

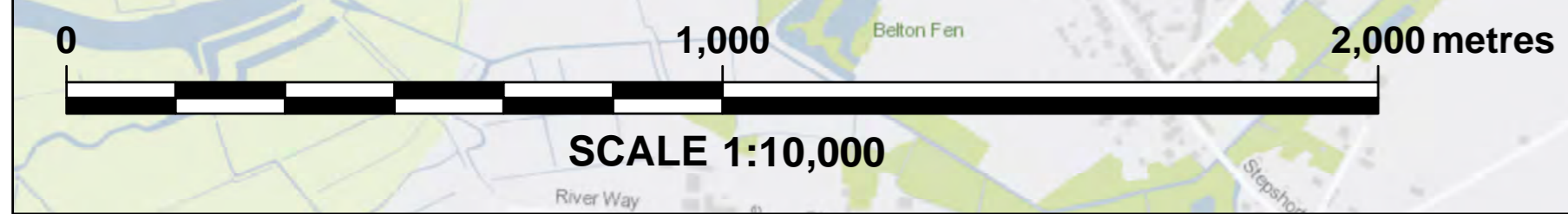
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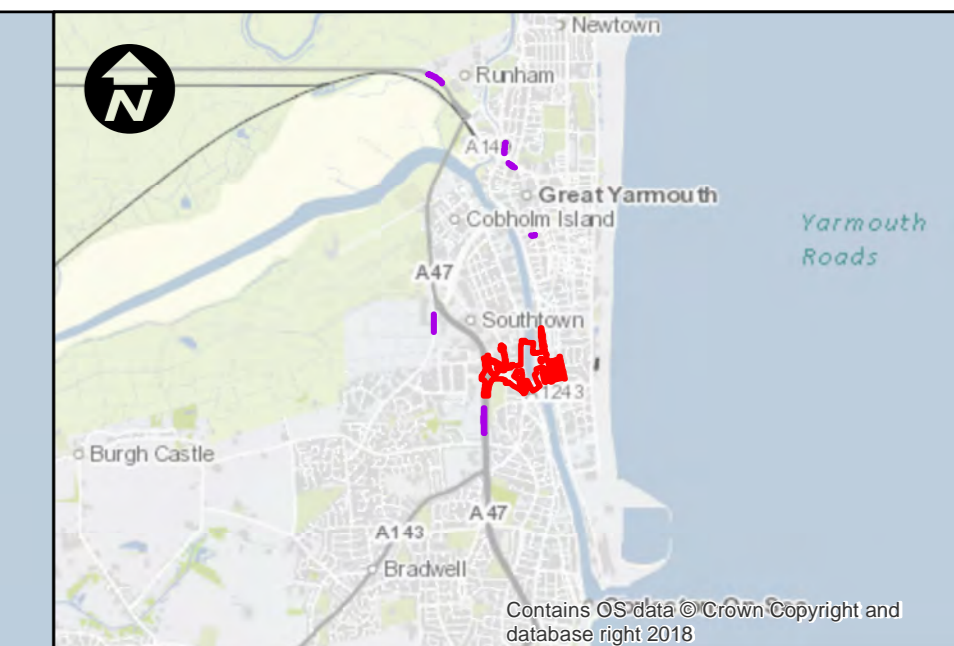
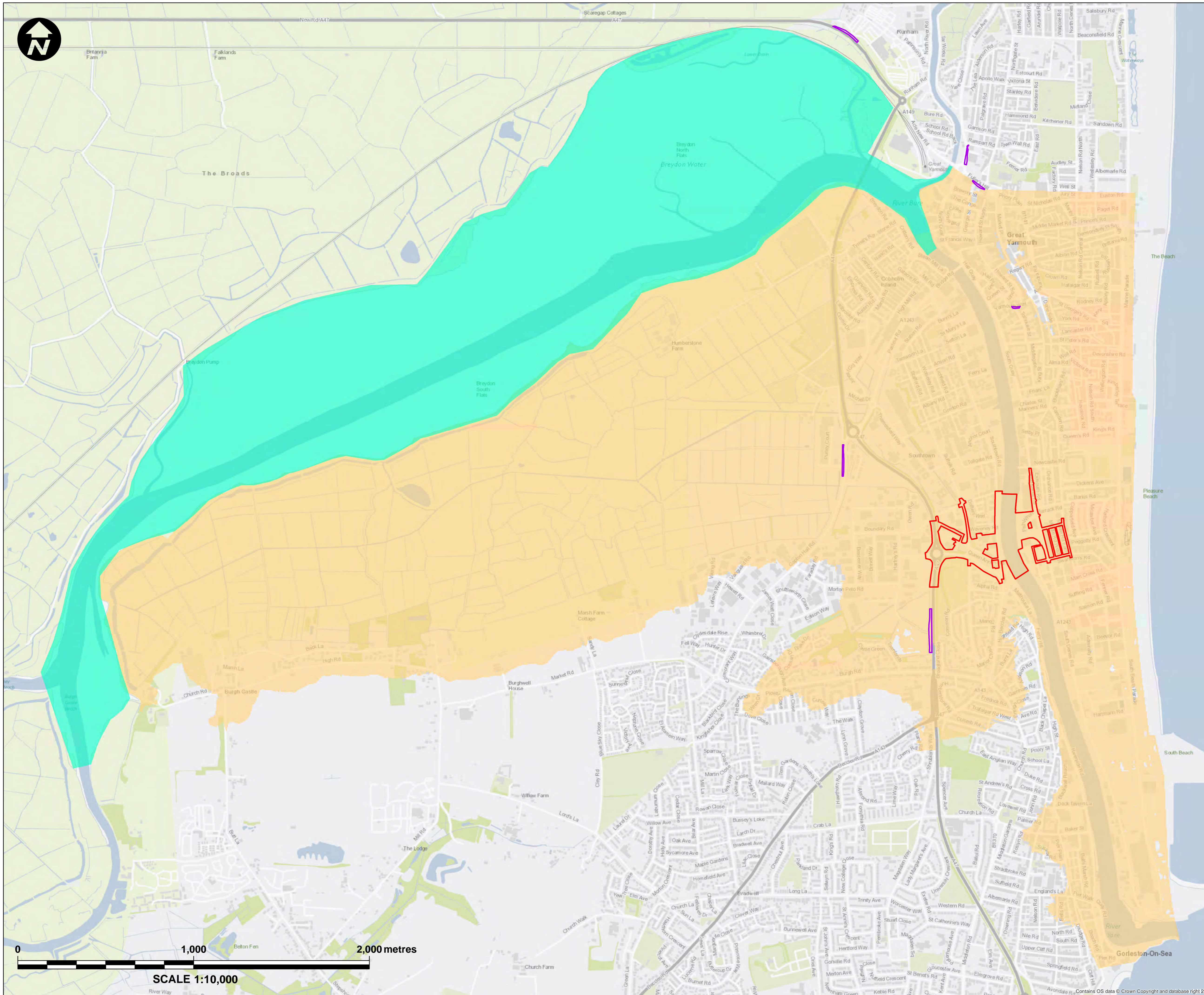
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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Breydon Water
 - Baseline 0.5% AEP H++ Outline and Scheme 0.5% AEP H++ Outline

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
**FIGURE 12.12
 BASELINE AND SCHEME 0.5% AEP
 H++ EVENT FLOOD EXTENTS
 (REGULATION 5(2)(a))**

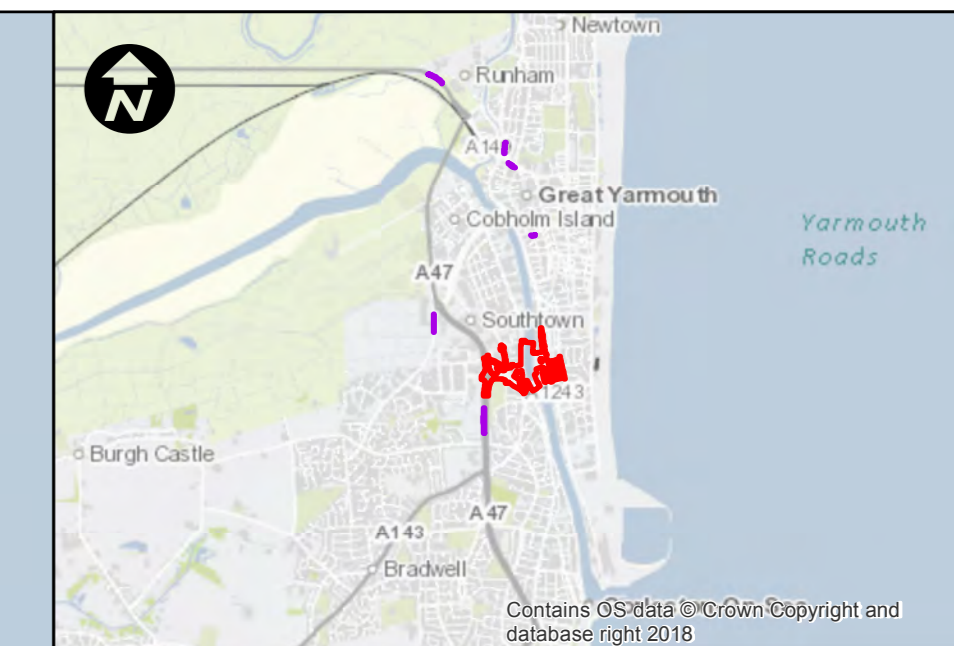
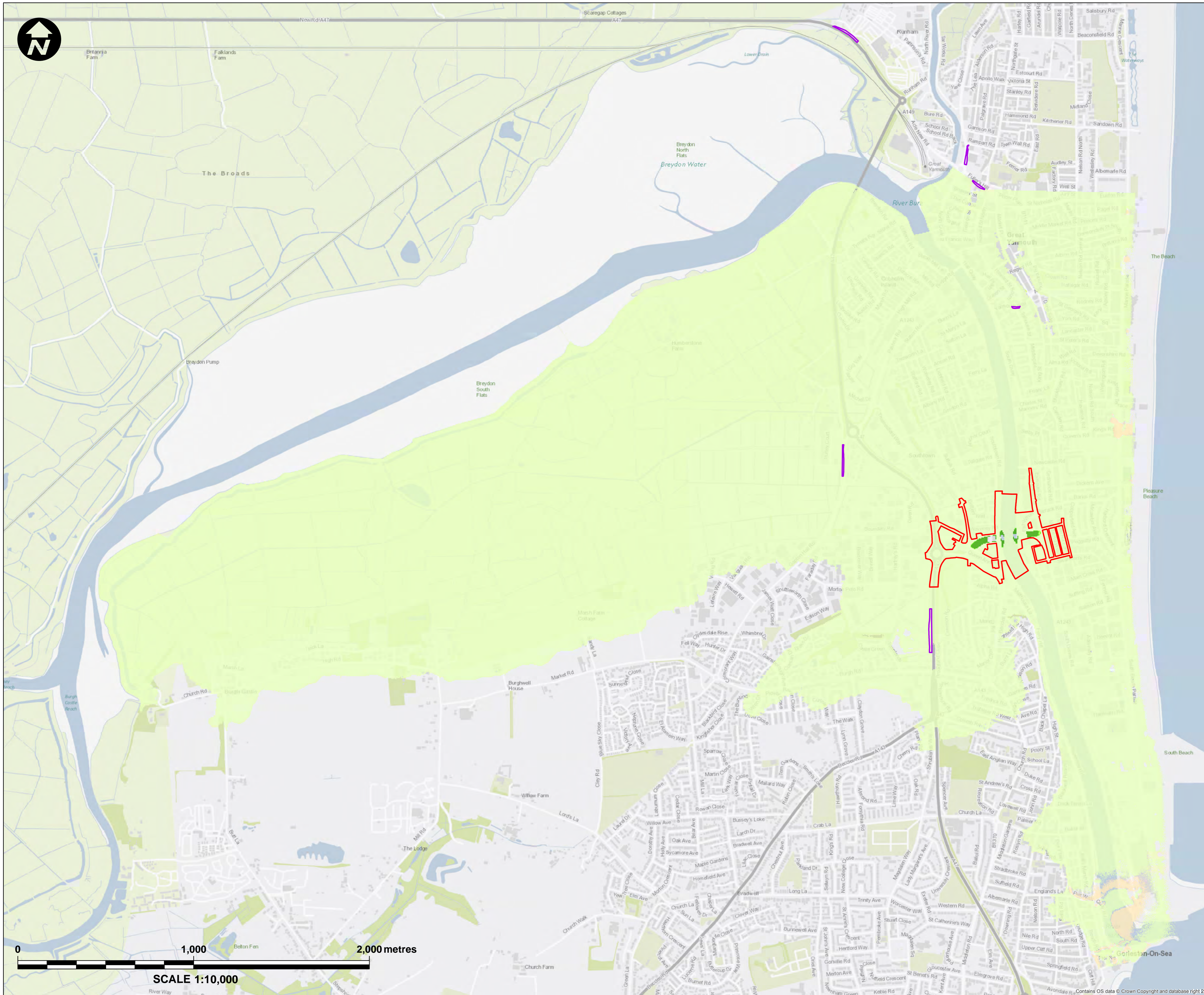
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SCALE 1:10,000



Key:

- Principal Application Site
- Satellite Application Sites

Change in flood depth (m)

- More than -0.3
- 0.3 to -0.1
- 0.1 to -0.02
- 0.02 to 0
- 0
- 0 to 0.02
- 0.02 to 0.1
- 0.1 to 0.3
- More than 0.3

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PROJECT TITLE

**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE

FIGURE 12.13
 SCHEME – BASELINE COMPARISON,
 0.5% AEP H++ EVENT
 (REGULATION 5(2)(a))

DRAWING STATUS

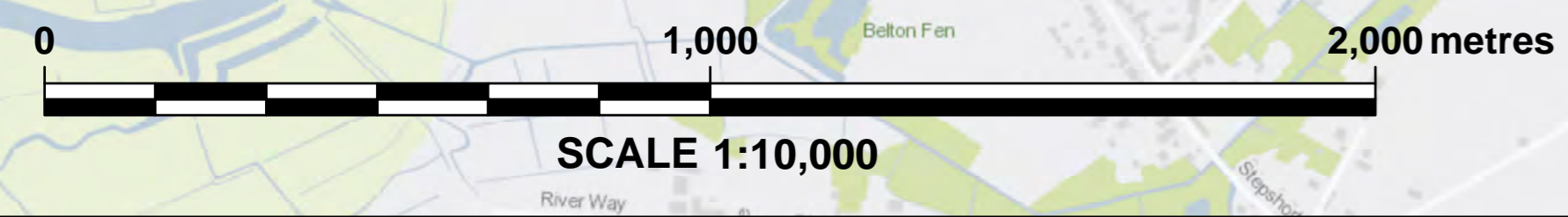
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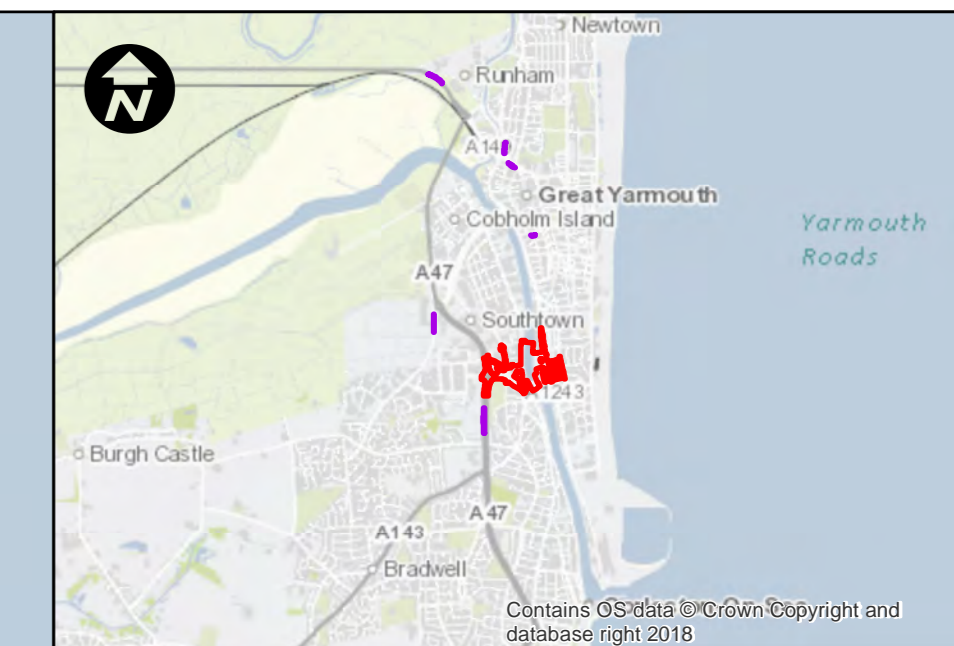
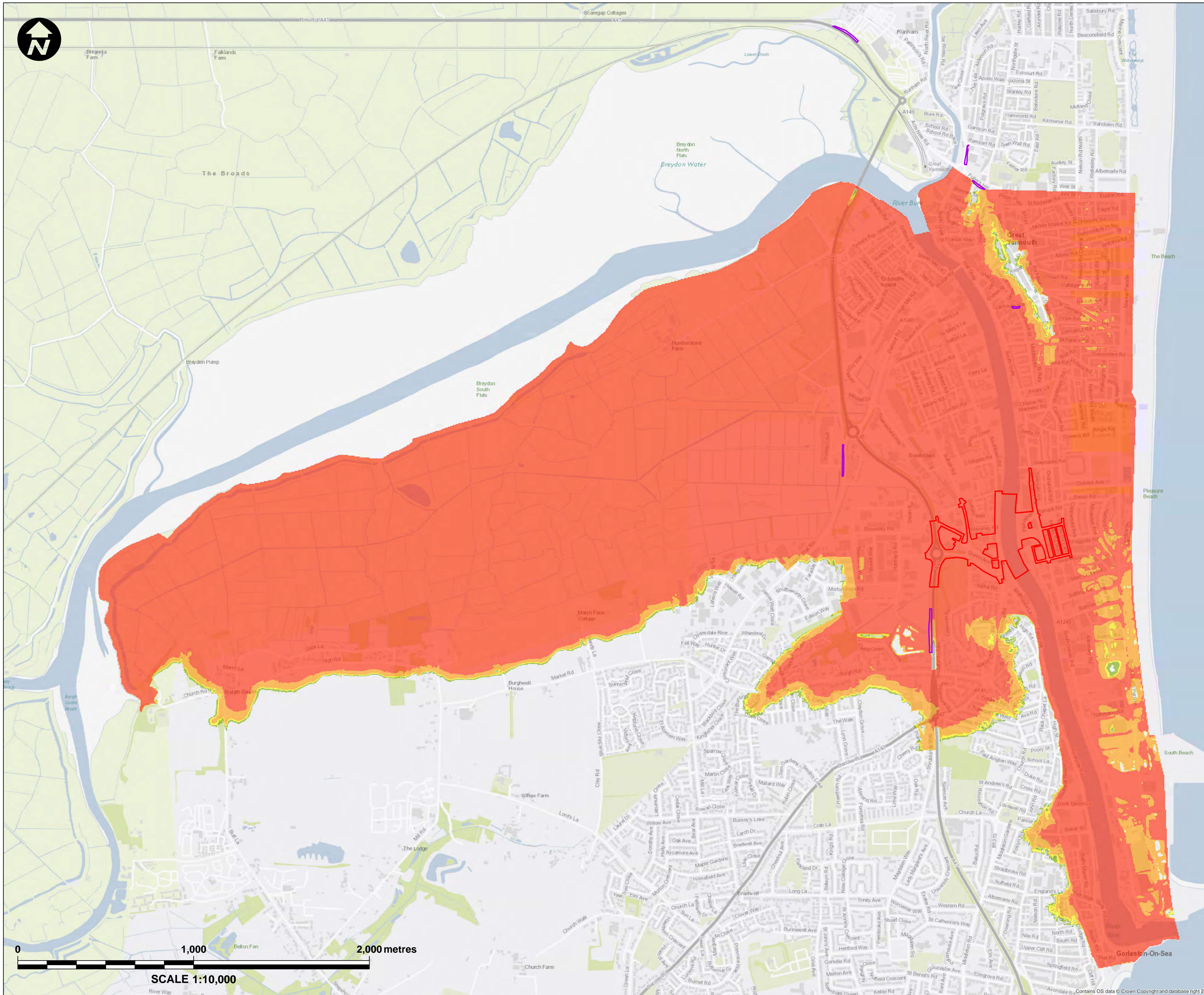
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Key:

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Flood Hazard to People

- No hazard
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

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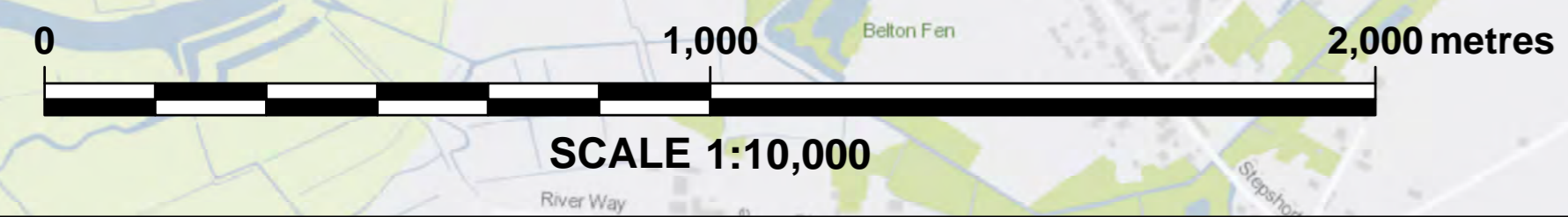
DRAWING TITLE
**FIGURE 12.14
 FLOOD HAZARD RATING, BASELINE
 0.5% AEP H++ EVENT
 (REGULATION 5(2)(a))**

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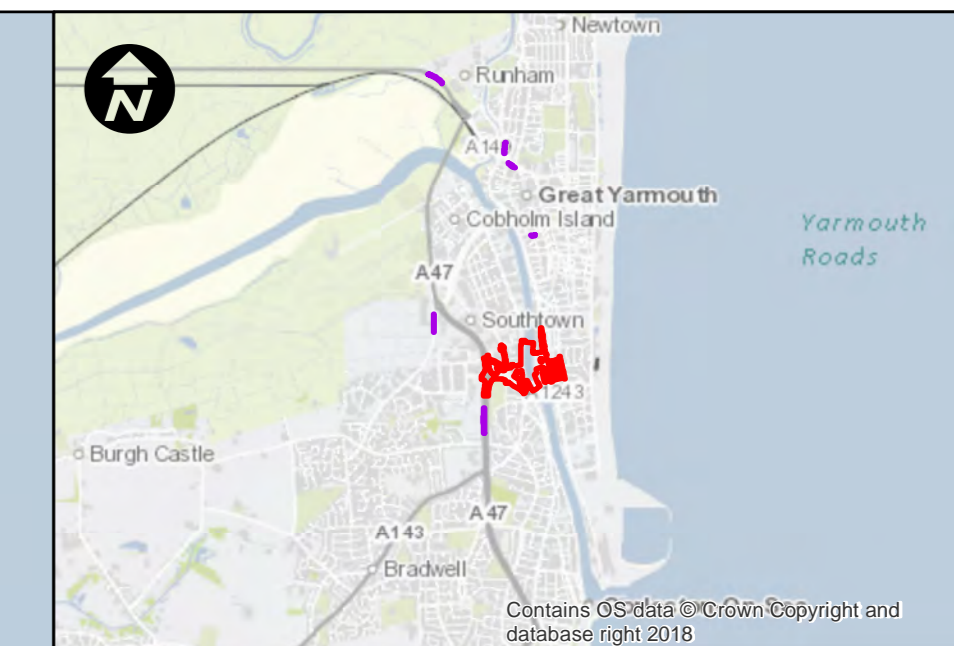
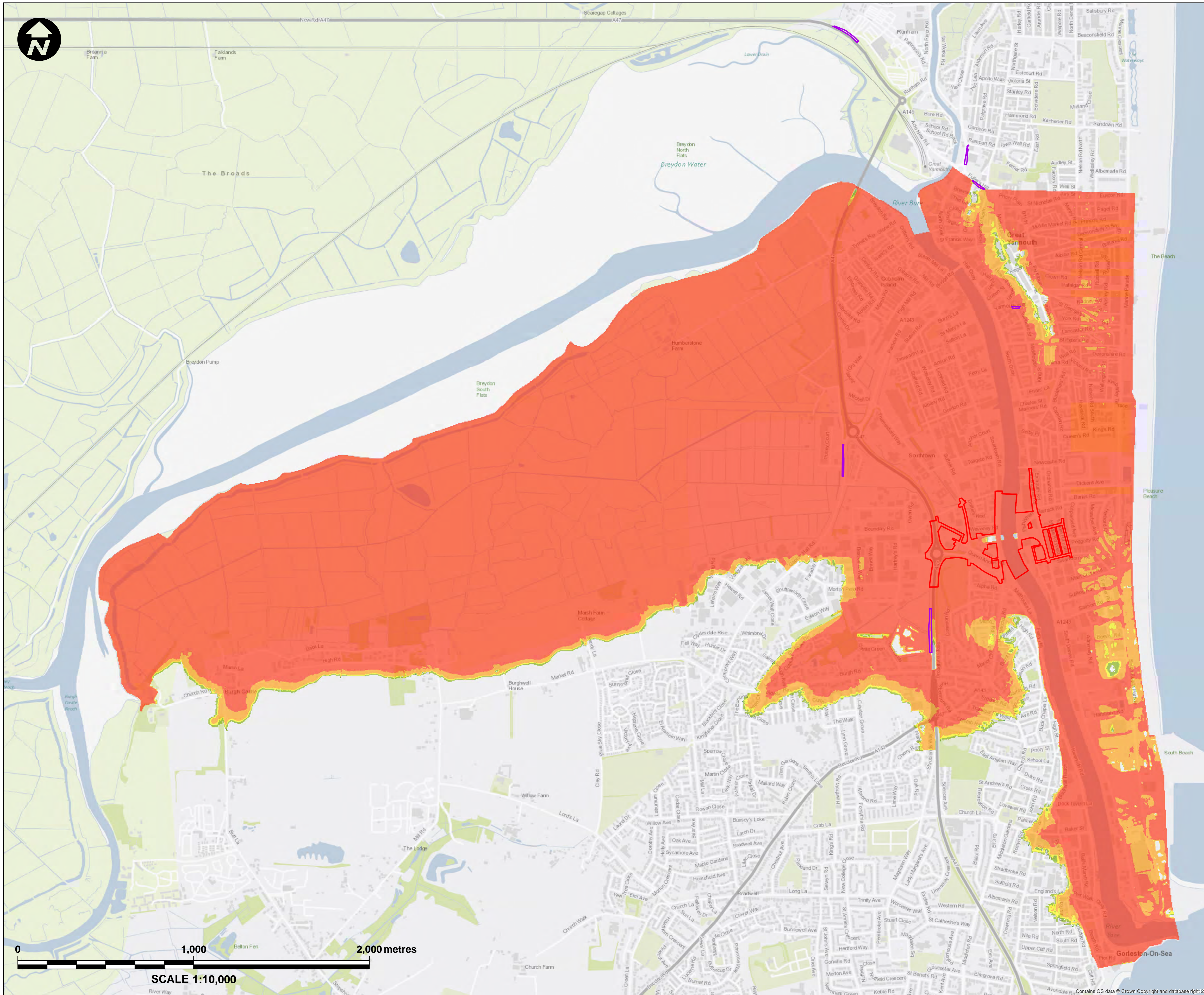
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Key:

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- Satellite Application Sites

Flood Hazard to People

- No hazard
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

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DESCRIPTION

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 Norfolk County Council
 County Hall, Martineau Lane
 Norwich NR1 2SG

PROJECT TITLE

**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE

FIGURE 12.15
 FLOOD HAZARD RATING, SCHEME
 0.5% AEP H++ EVENT
 (REGULATION 5(2)(a))

DRAWING STATUS

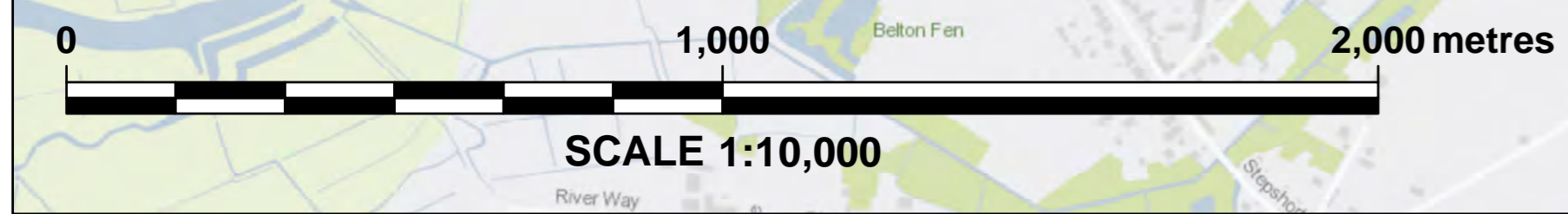
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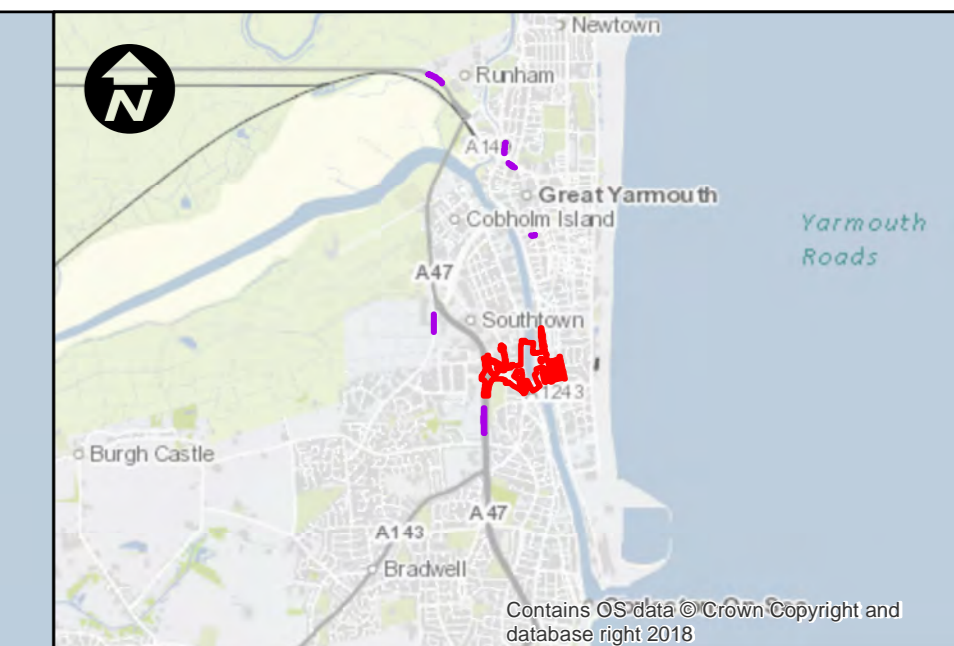
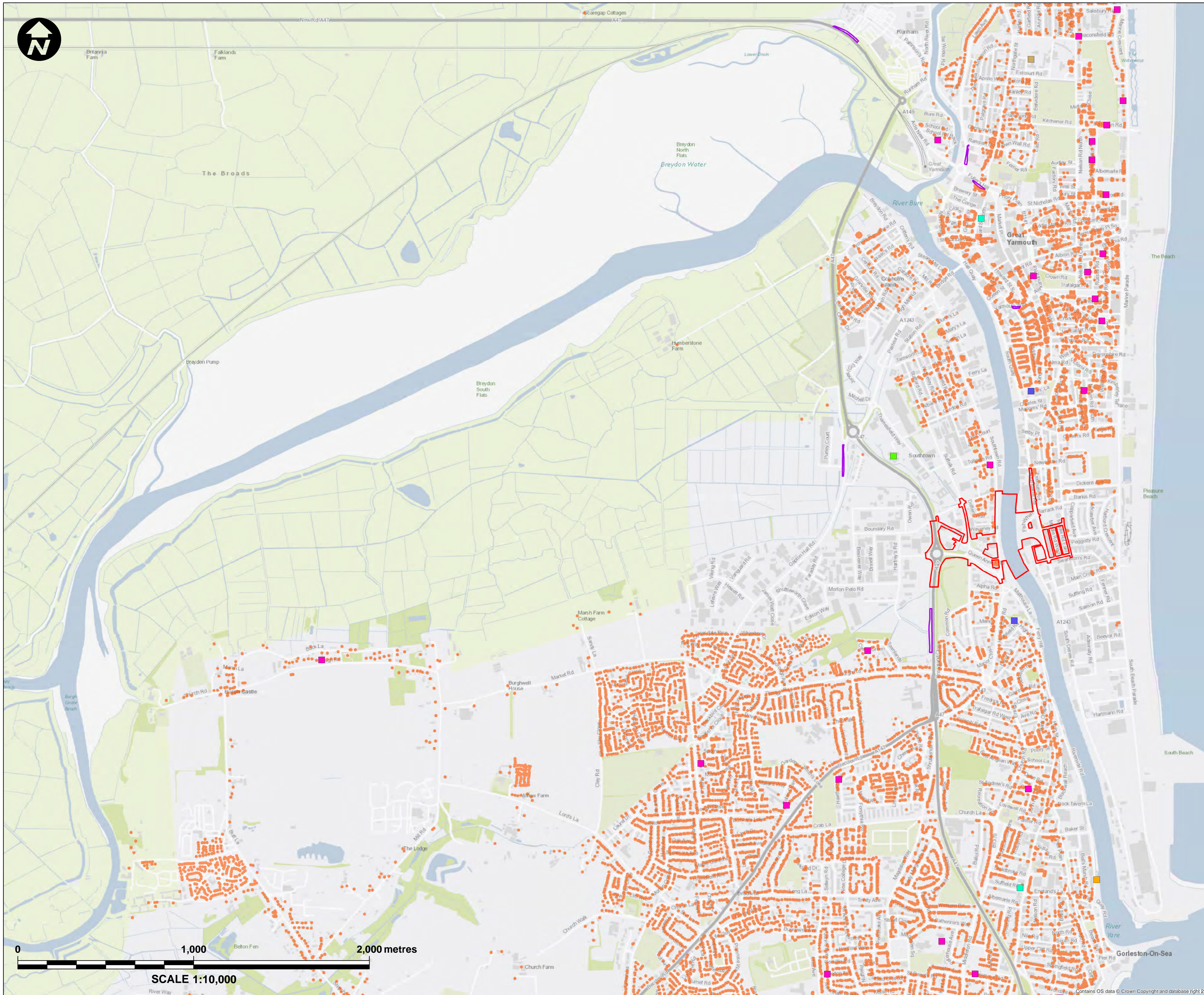
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GYTRC-WSP-EGN-XX-DR-EN-2114





- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Properties
- Sensitive Receptors**
- Hospital
 - Emergency/Rescue Service
 - Police Transport
 - Fire Station
 - Coastguard Rescue
 - Nursing Home

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PROJECT TITLE

**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE

**FIGURE 12B.1
 FLOOD RISK RECEPTORS IDENTIFIED
 WITHIN ASSESSMENT STUDY AREA
 (REGULATION 5(2)(e))**

DRAWING STATUS

FOR DCO APPLICATION

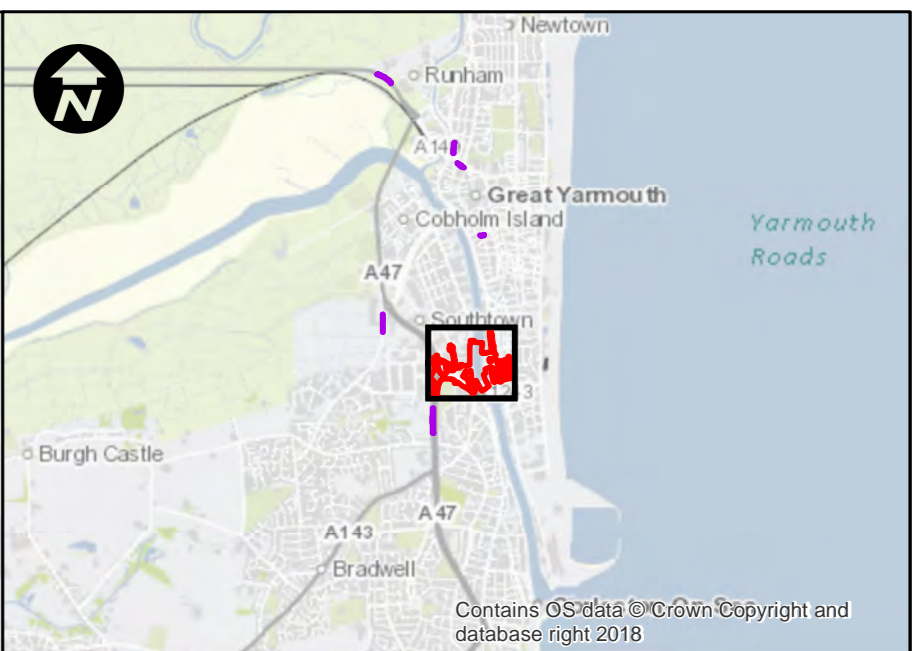
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DE	JH	JW	MK

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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - ▲ Borehole Locations

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

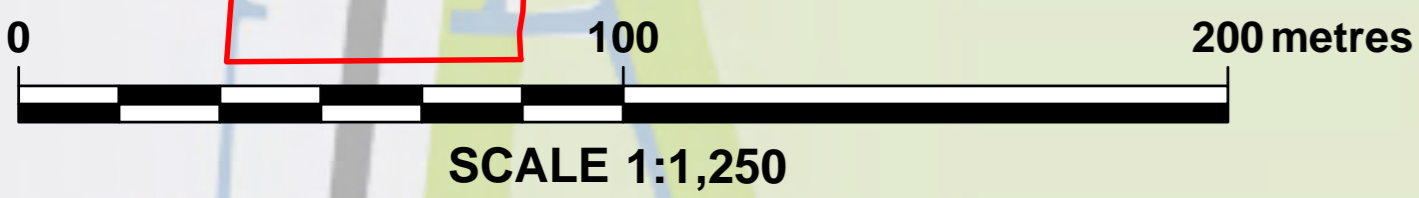
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**FIGURE 12B.2
 BOREHOLE GROUNDWATER
 MONITORING LOCATIONS
 (REGULATION 5(2)(e))**

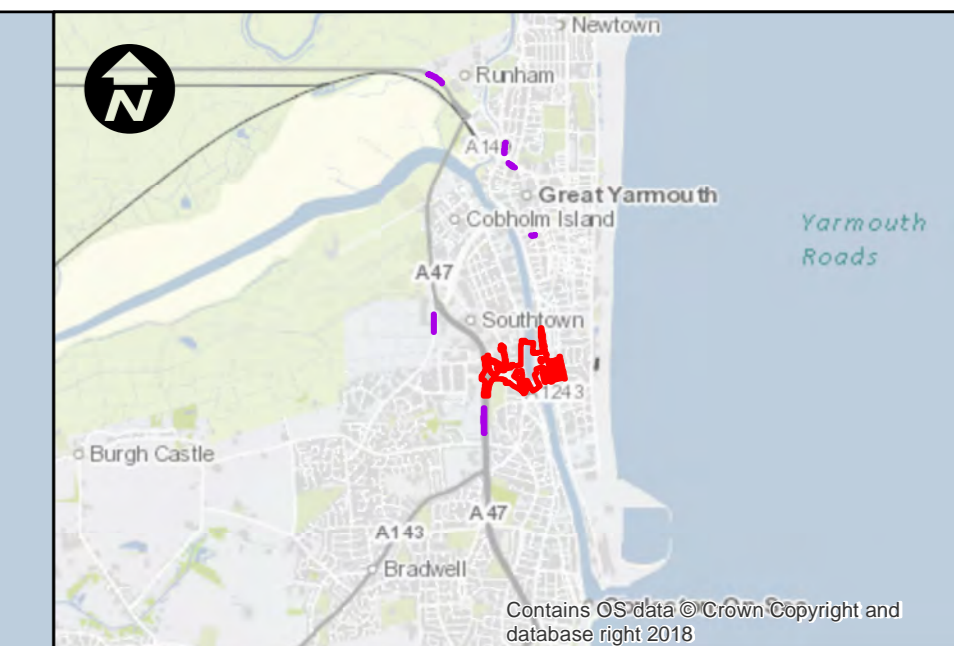
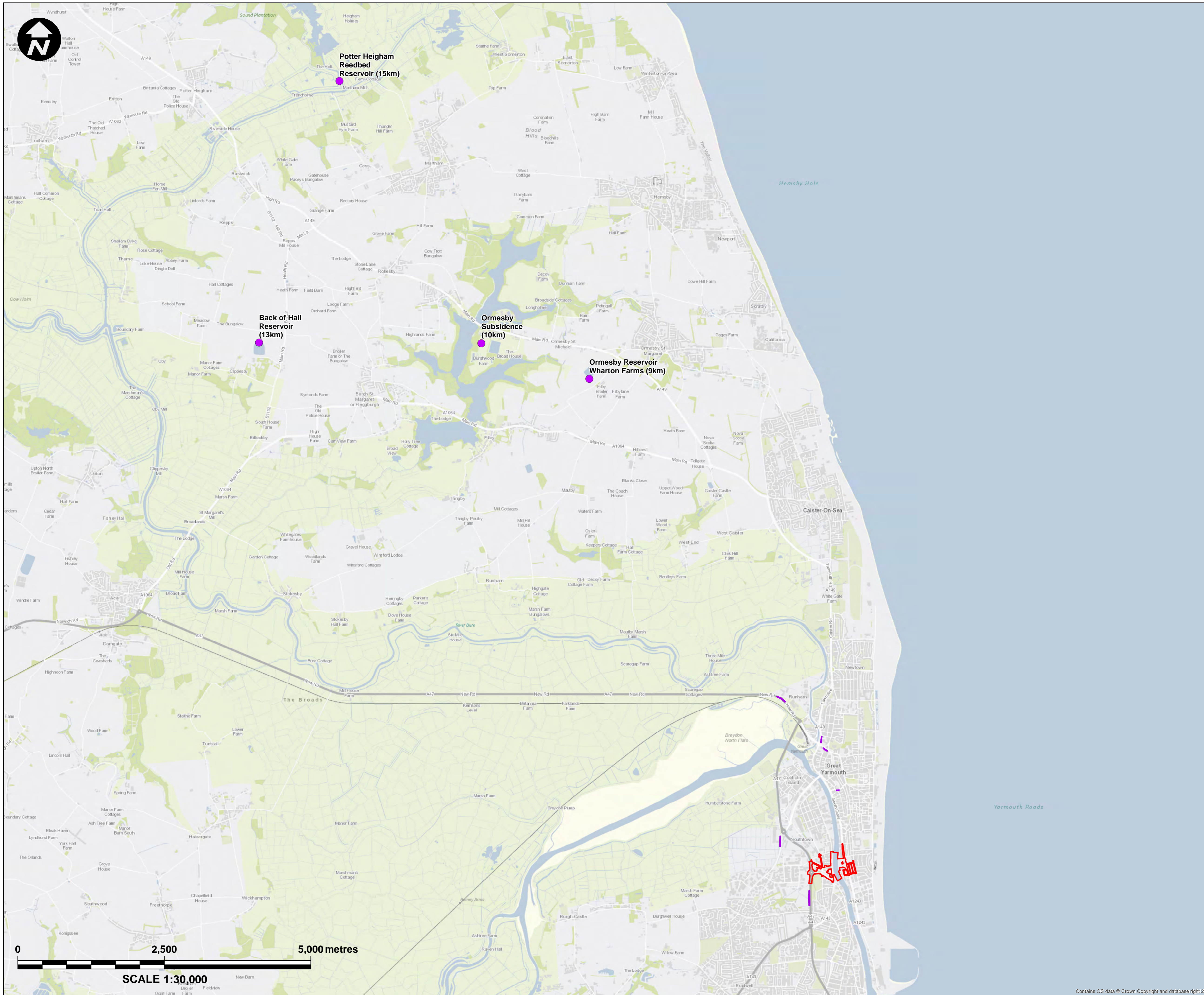
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Key:

- Principal Application Site
- Satellite Application Sites
- Reservoirs

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PROJECT TITLE
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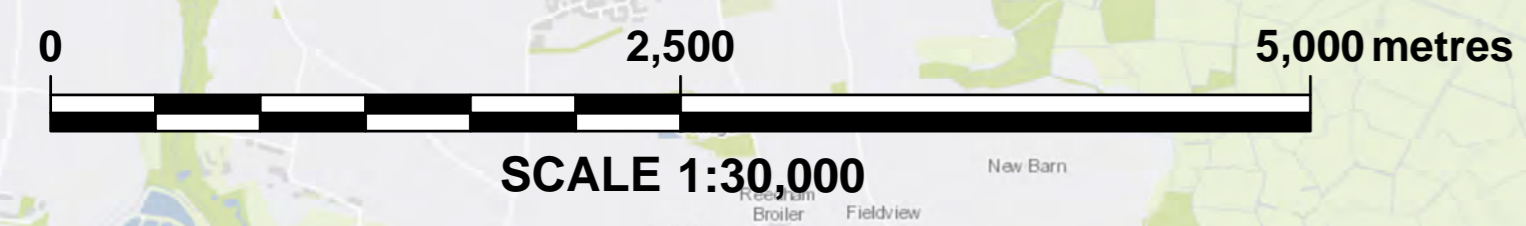
DRAWING TITLE
**FIGURE 12B.3
 CLOSEST RESERVOIRS TO
 GREAT YARMOUTH
 (REGULATION 5(2)(e))**

DRAWING STATUS
FOR DCO APPLICATION

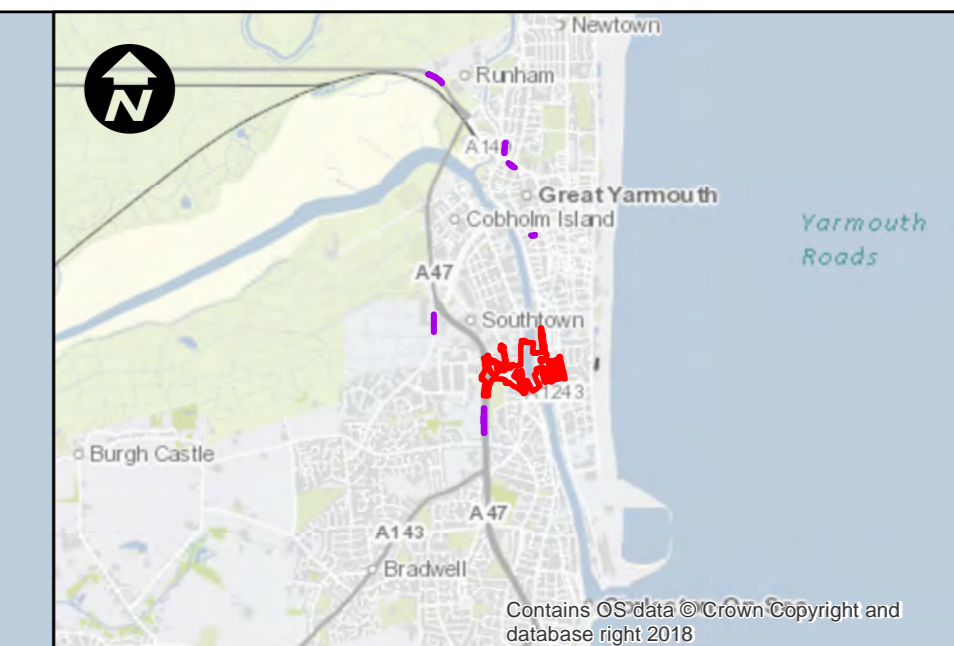
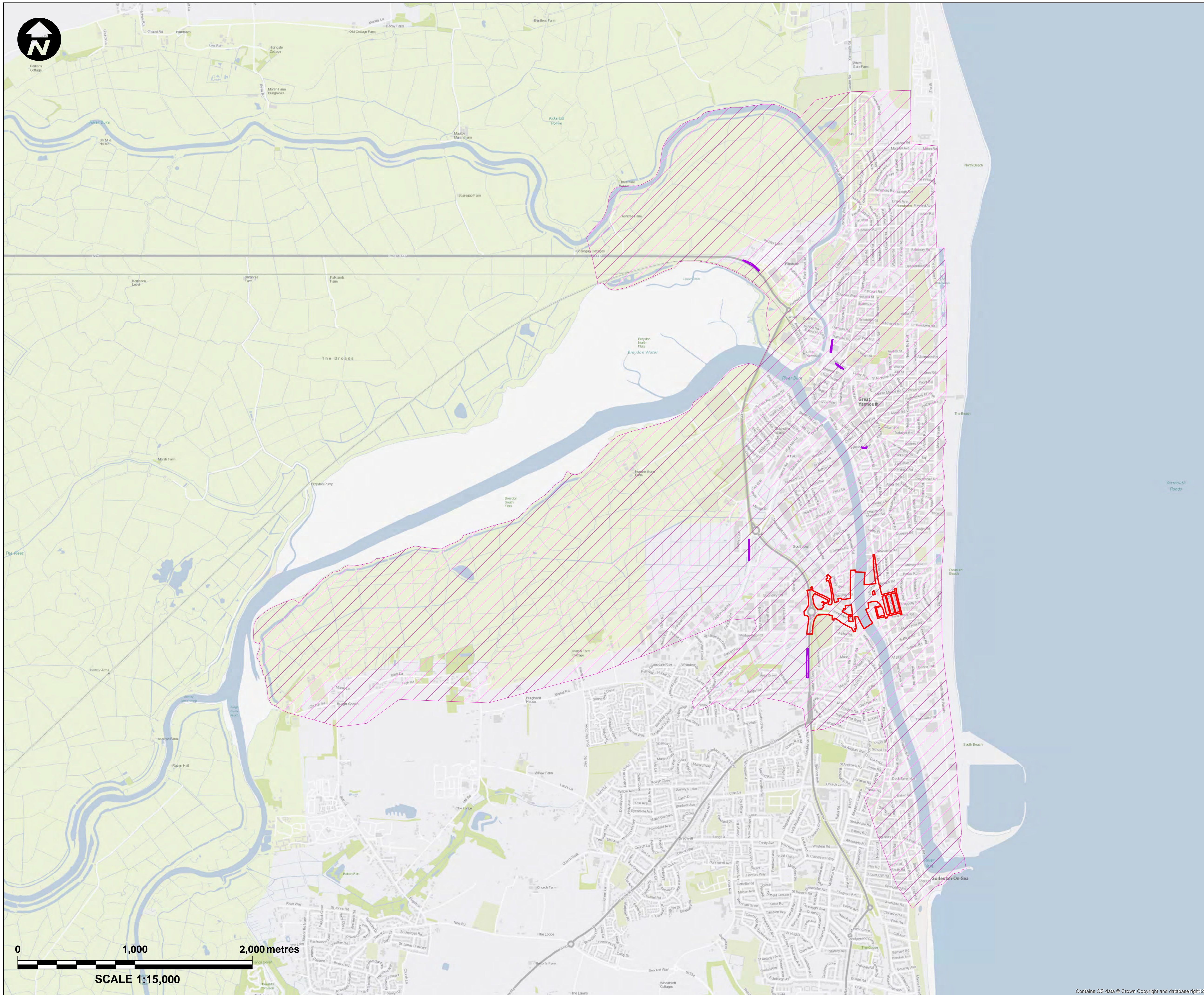
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Key:

- Principal Application Site
- Satellite Application Sites
- Existing Model 2D Domain (Halcrow, 2011)

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
**FIGURE 12B.4
 EXISTING MODEL 2D
 DOMAIN (HALCROW, 2011)
 (REGULATION 5(2)(e))**

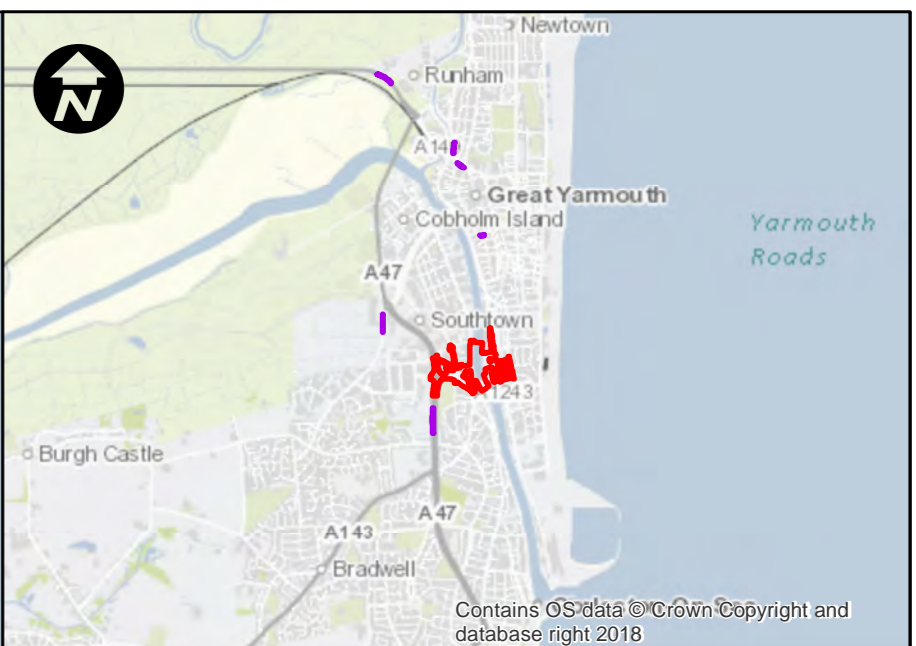
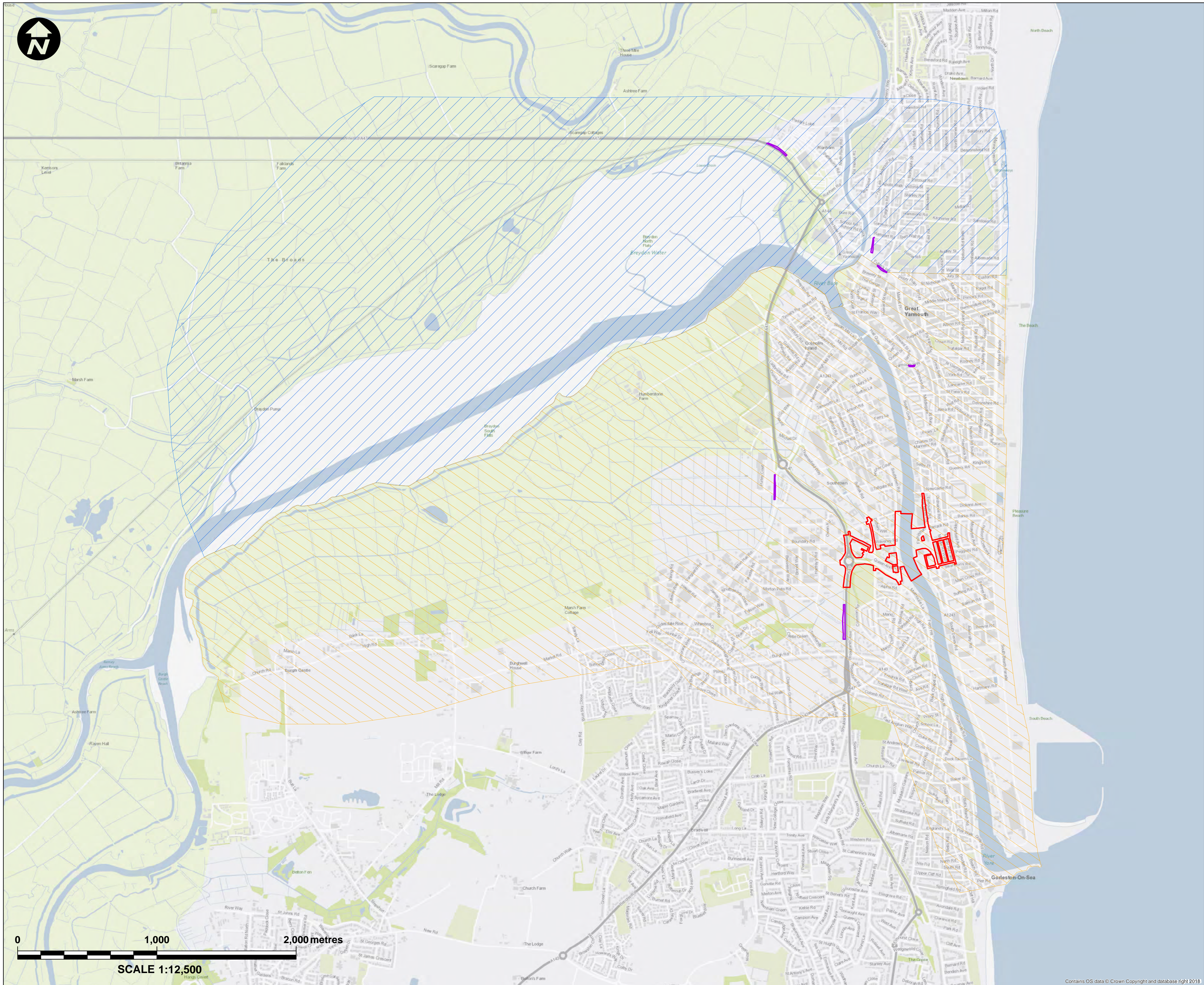
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 - Satellite Application Sites
 - 2D Domain
 - 1D Domain

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

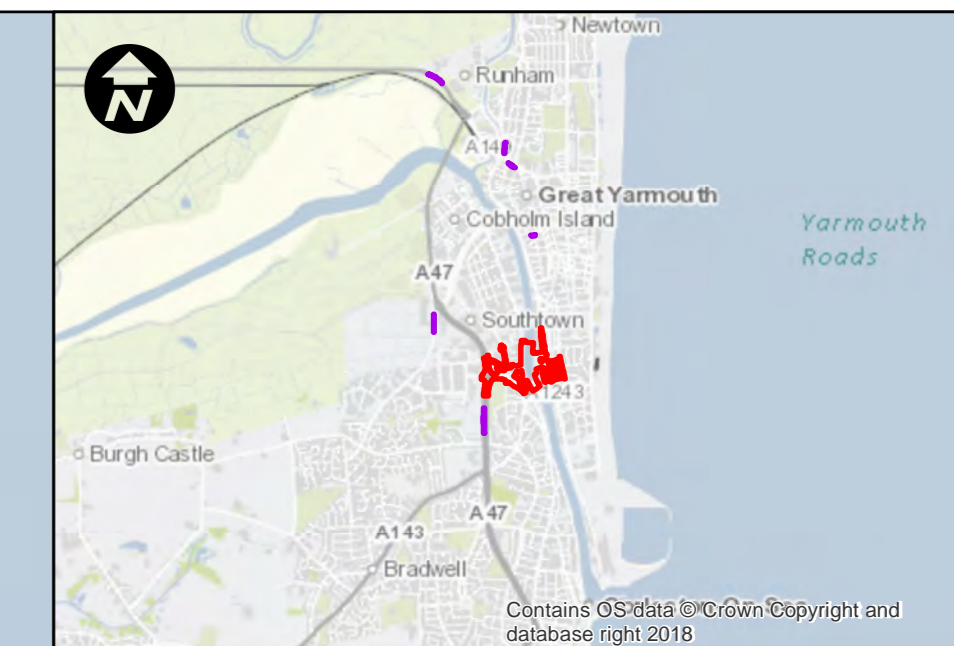
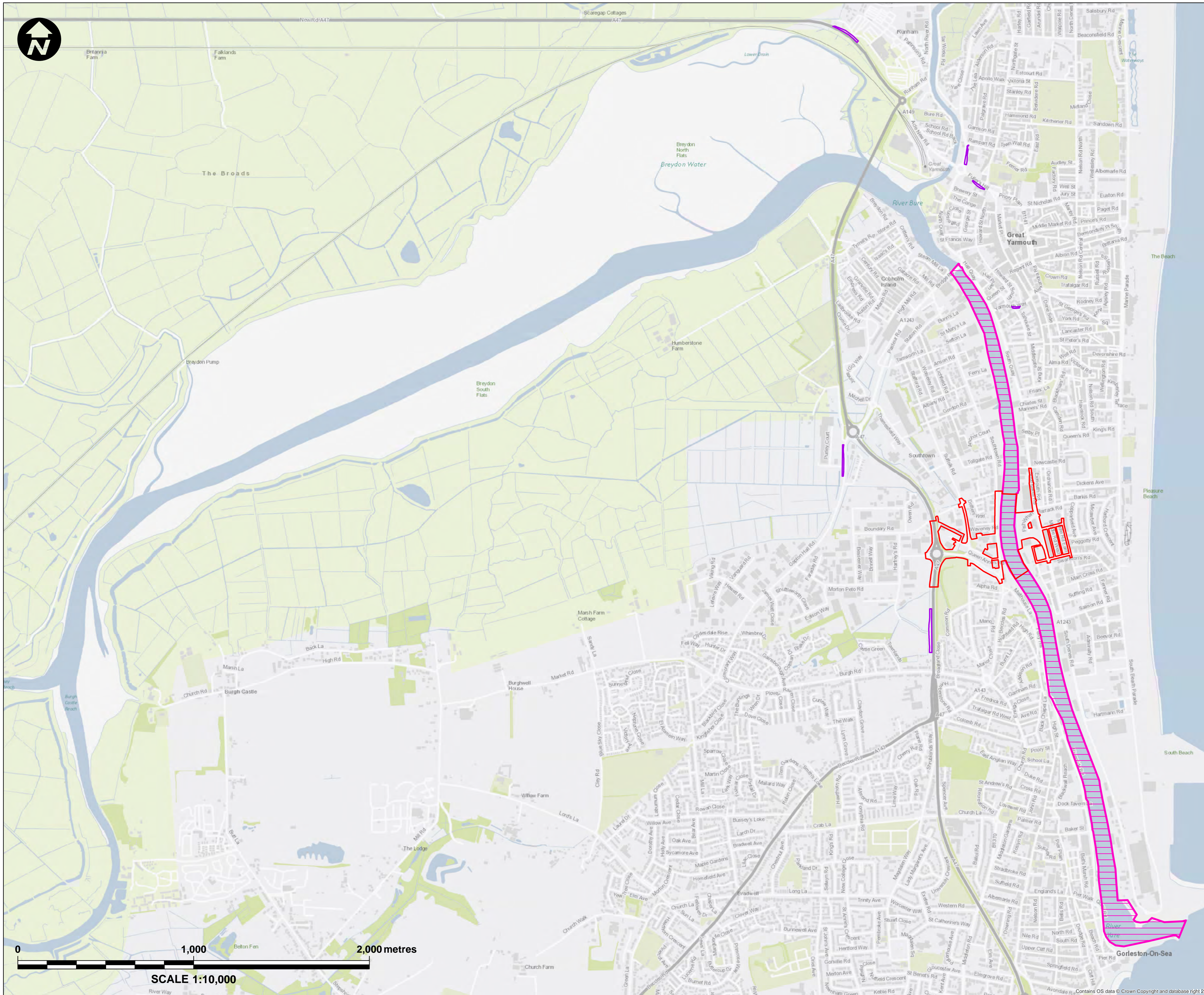
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**FIGURE 12B.5
 MODEL DOMAIN
 (REGULATION 5(2)(e))**

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Key:

- Principal Application Site
- Satellite Application Sites
- PPGY Survey Coverage

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
 FIGURE 12B.6
 PEEL PORTS GREAT YARMOUTH
 BATHYMETRIC SURVEY COVERAGE IN
 RIVER YARE
 (REGULATION 5(2)(e))

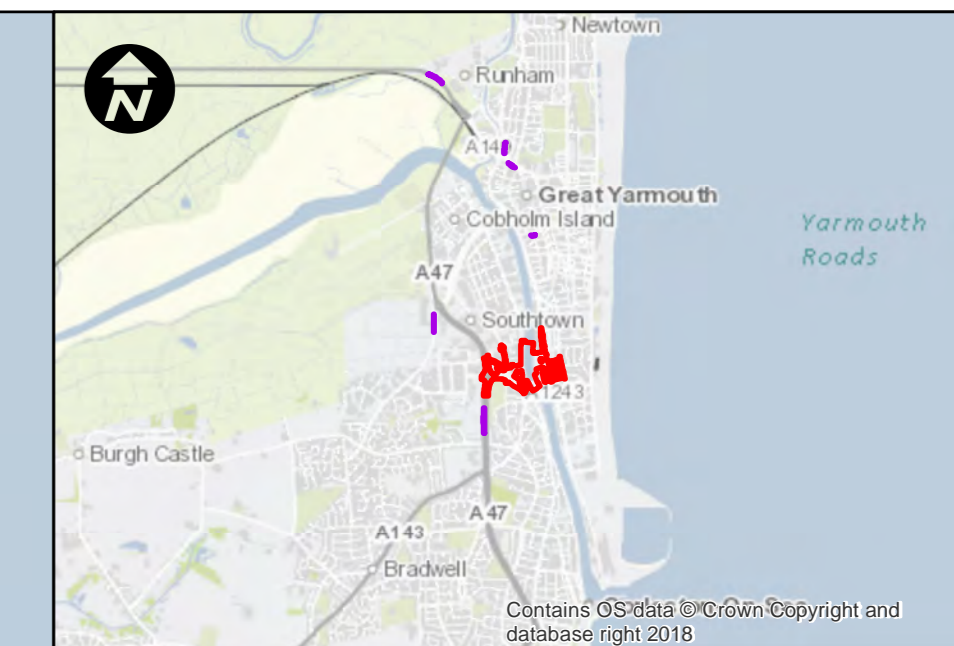
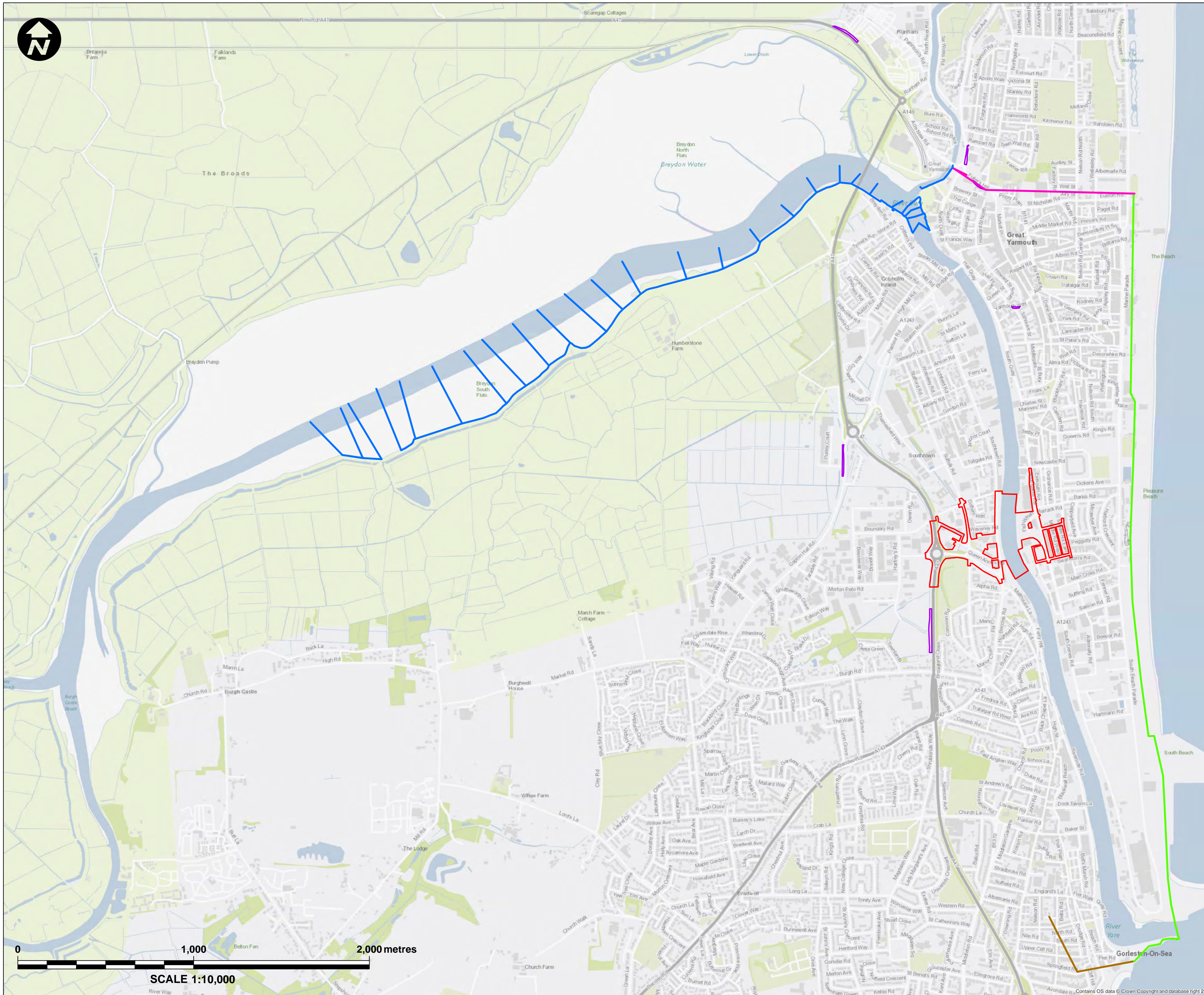
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SCALE 1:10,000



- Key:**
- Principal Application Site
 - Satellite Application Sites
 - 1D Boundary
 - 2D SX Boundary
 - Tidal Boundary
 - HQ Boundary

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

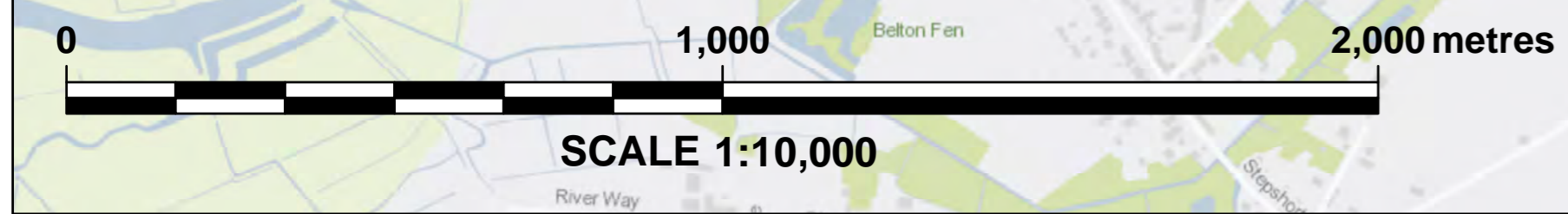
DRAWING TITLE
**FIGURE 12B.7
 MODEL BOUNDARY CONDITIONS
 (REGULATION 5(2)(e))**

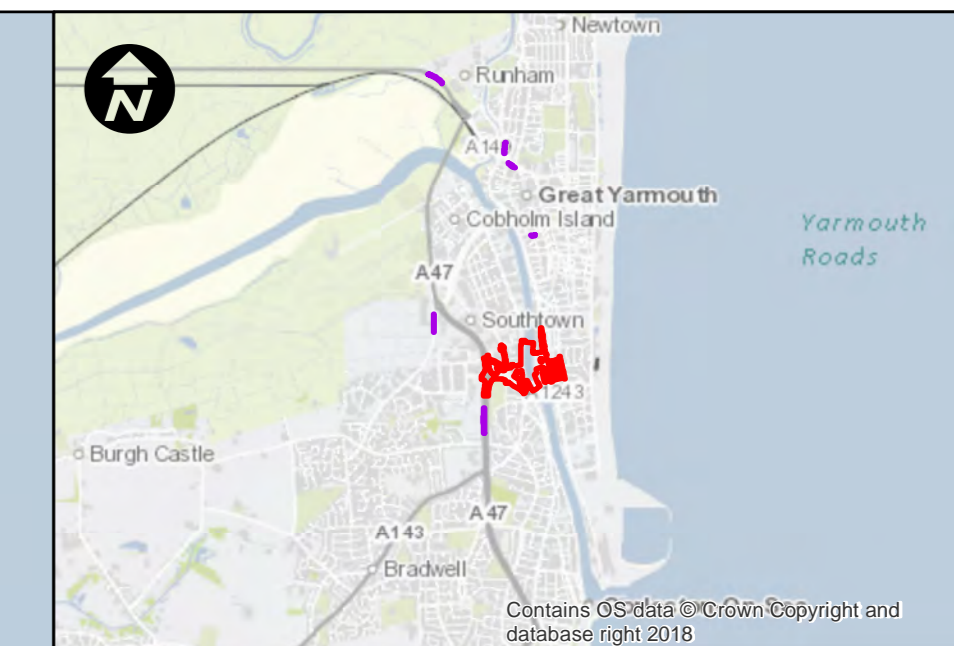
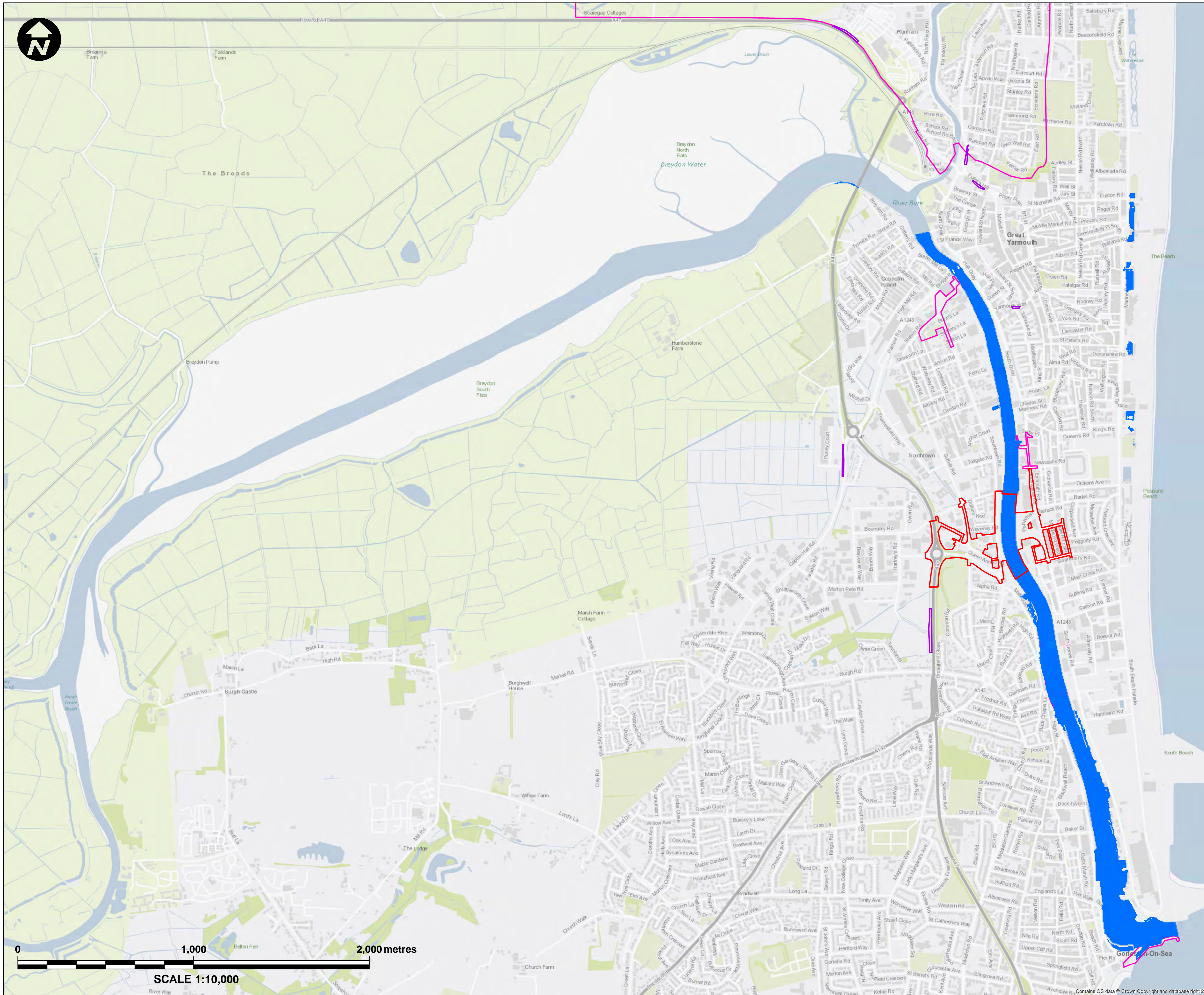
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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Increased Roughness Model
 - EA Historic Flood Map

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 Norfolk County Council
 County Hall, Martineau Lane
 Norwich NR1 2SG

PROJECT TITLE

GREAT YARMOUTH THIRD RIVER CROSSING

DRAWING TITLE

FIGURE 12B.8 COMPARISON OF INCREASED ROUGHNESS MODEL WITH EA HISTORIC FLOOD MAP (REGULATION 5(2)(e))

DRAWING STATUS

FOR DCO APPLICATION

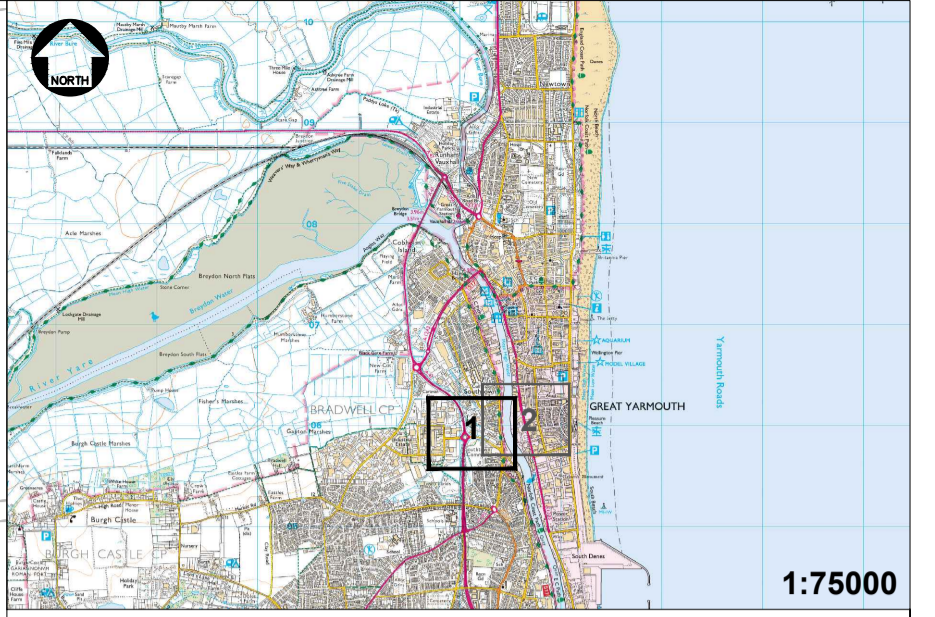
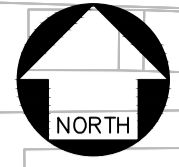
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PM	JH	HH	MK

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1:10,000	29/03/2019	P00

DRAWING NUMBER

GYTRC-WSP-EGN-XX-DR-EN-2122

SCALE 1:10,000



1:75000

- Key:**
- Area To Be Drained to Western Discharge Point
 - Area To Be Drained to Eastern Discharge Point
 - Existing ordinary watercourse network to be re-aligned or improved as necessary
 - Indicative location of proposed storage and/or pollution treatment feature
 - Indicative location of proposed swales within verges

- Notes:**
1. The scheme shown on this plan will be subject to detailed design development in accordance with the terms of the Development Consent Order.
 2. The Scheme overlay within this plan is indicative.
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PROJECT TITLE

**GREAT YARMOUTH
THIRD RIVER CROSSING**

DRAWING TITLE

FIGURE 12C.1
DRAINAGE
SHEET 1 OF 2
(REGULATION 5(2)(a))

DRAWING STATUS

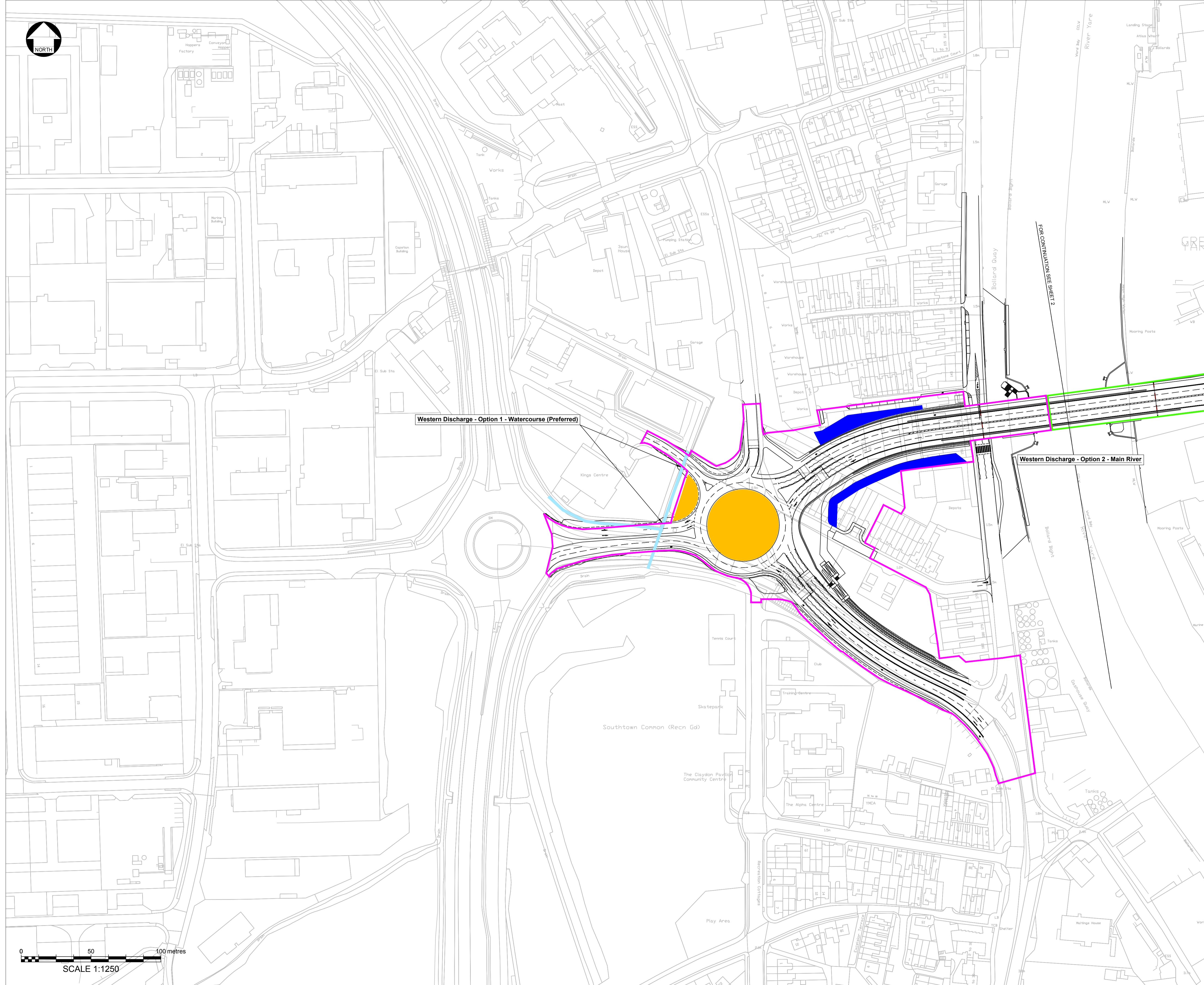
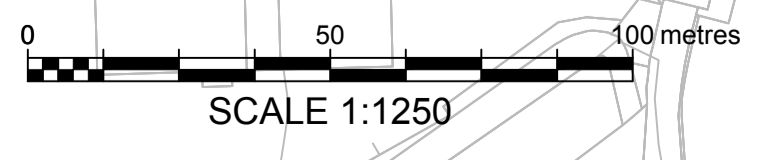
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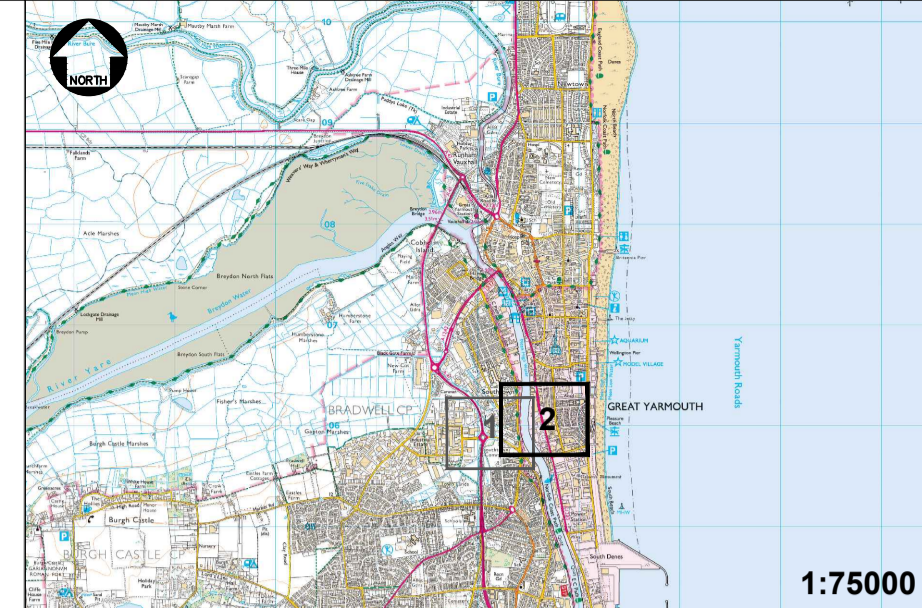
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MJC	SPG	JW	MK

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1:1250	30/04/2019	P00

DRAWING NUMBER

GYTRC-WSP-EGN-XX-DR-EN-2123





1:75000

- Key:**
- Area To Be Drained West Of River
 - Area To Be Drained East Of River
 - Indicative location of proposed storage and/or pollution treatment feature
 - Indicative location of proposed swales within verges

- Notes:**
1. The scheme shown on this plan will be subject to detailed design development in accordance with the terms of the Development Consent Order.
 2. The Scheme overlay within this plan is indicative.

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
 FIGURE 12C.2
 DRAINAGE
 SHEET 2 OF 2
 (REGULATION 5(2)(a))

DRAWING STATUS
 FOR DCO APPLICATION

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MJC	SPG	JW	MK

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FOR CONTINUATION SEE SHEET 1

Eastern Discharge - AW Combined Sewer