

Great Yarmouth Third River Crossing

Application for Development Consent Order

Document 6.3: Environmental Statement Volume III: ES Figures – Chapter 6

Planning Act 2008

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

APFP regulation Number: 5(2)(a)

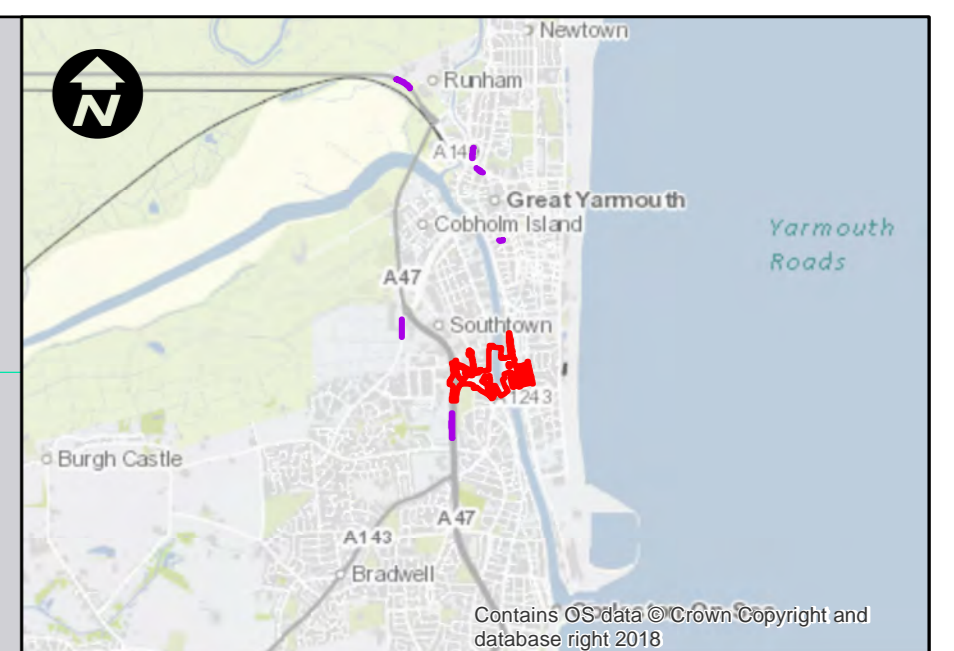
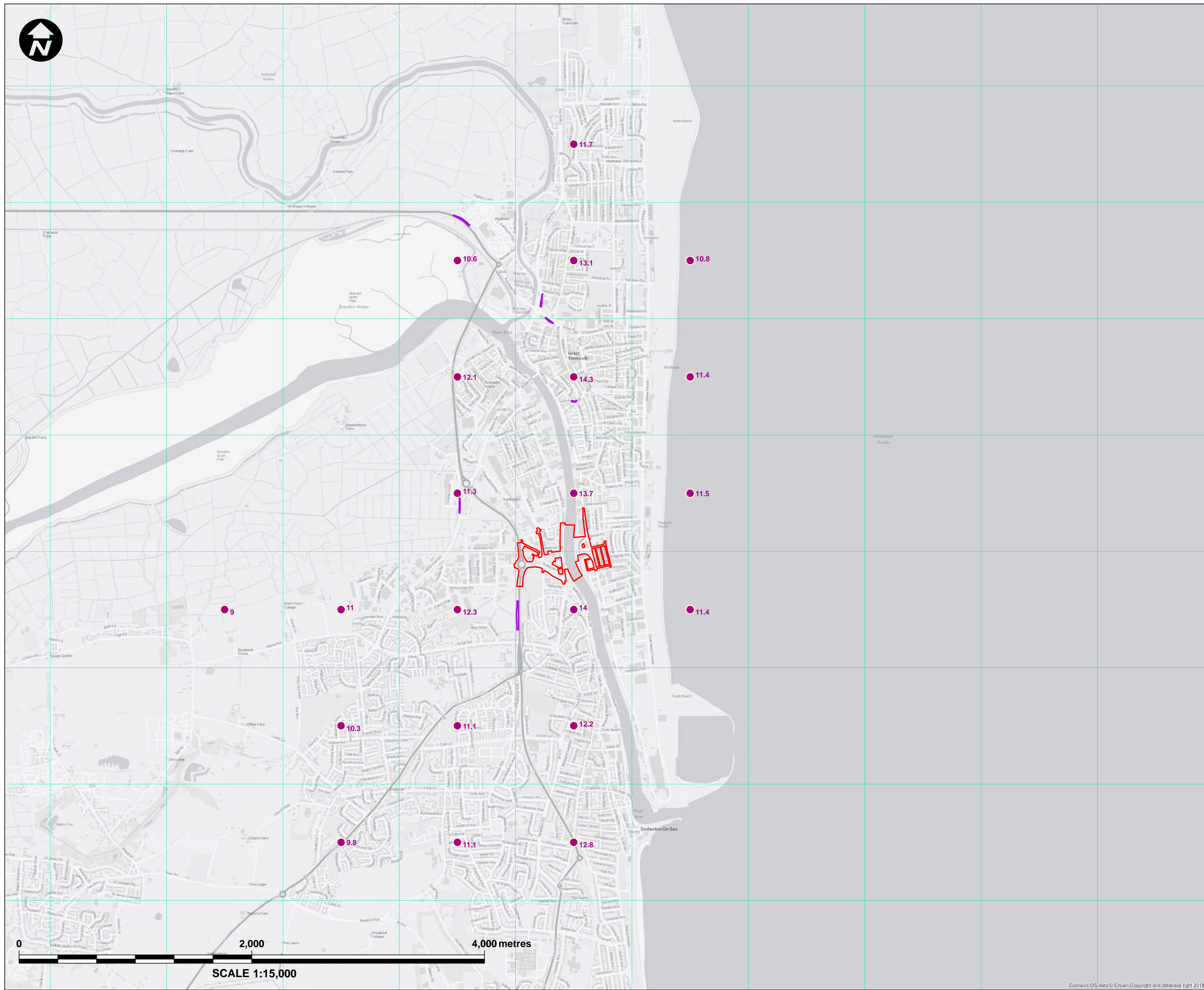
Planning Inspectorate Reference Number: TR010043

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
- 2017 Defra Background NO₂ Concentrations
- Ordnance Survey 1km Grid Square

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

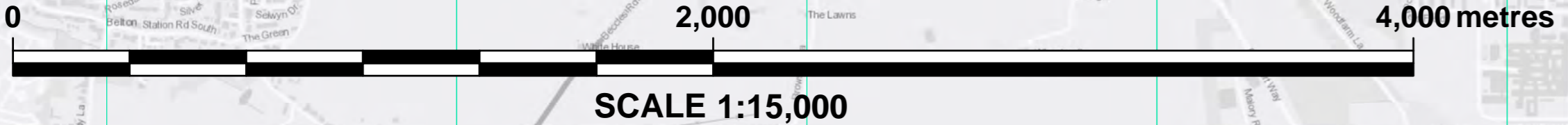
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 FIGURE 6.1A
 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 BASE YEAR 2017 NO₂
 SHEET 1 OF 8
 (REGULATION 5(2)(a))

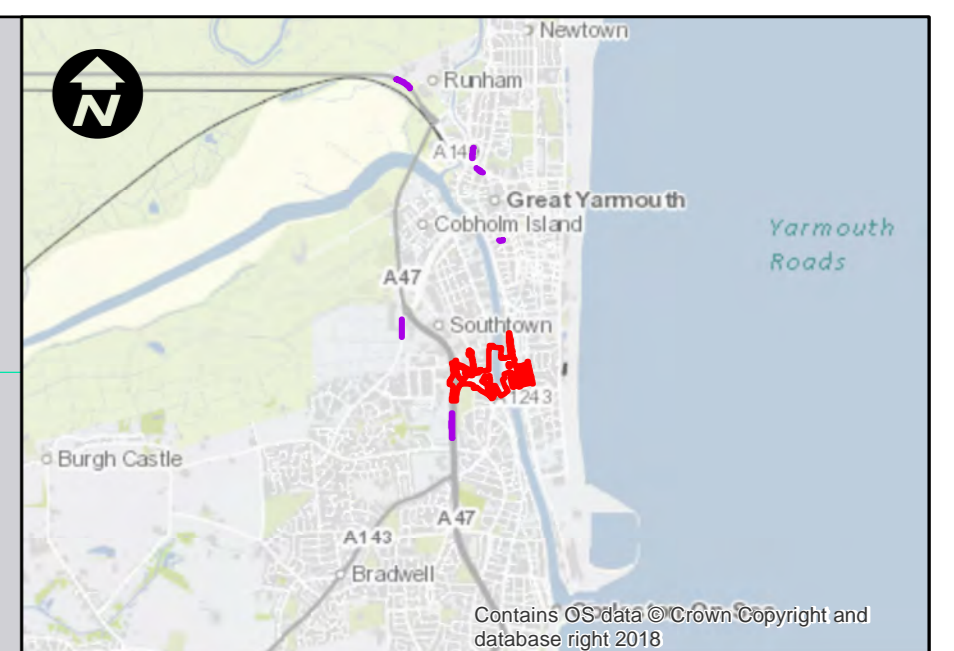
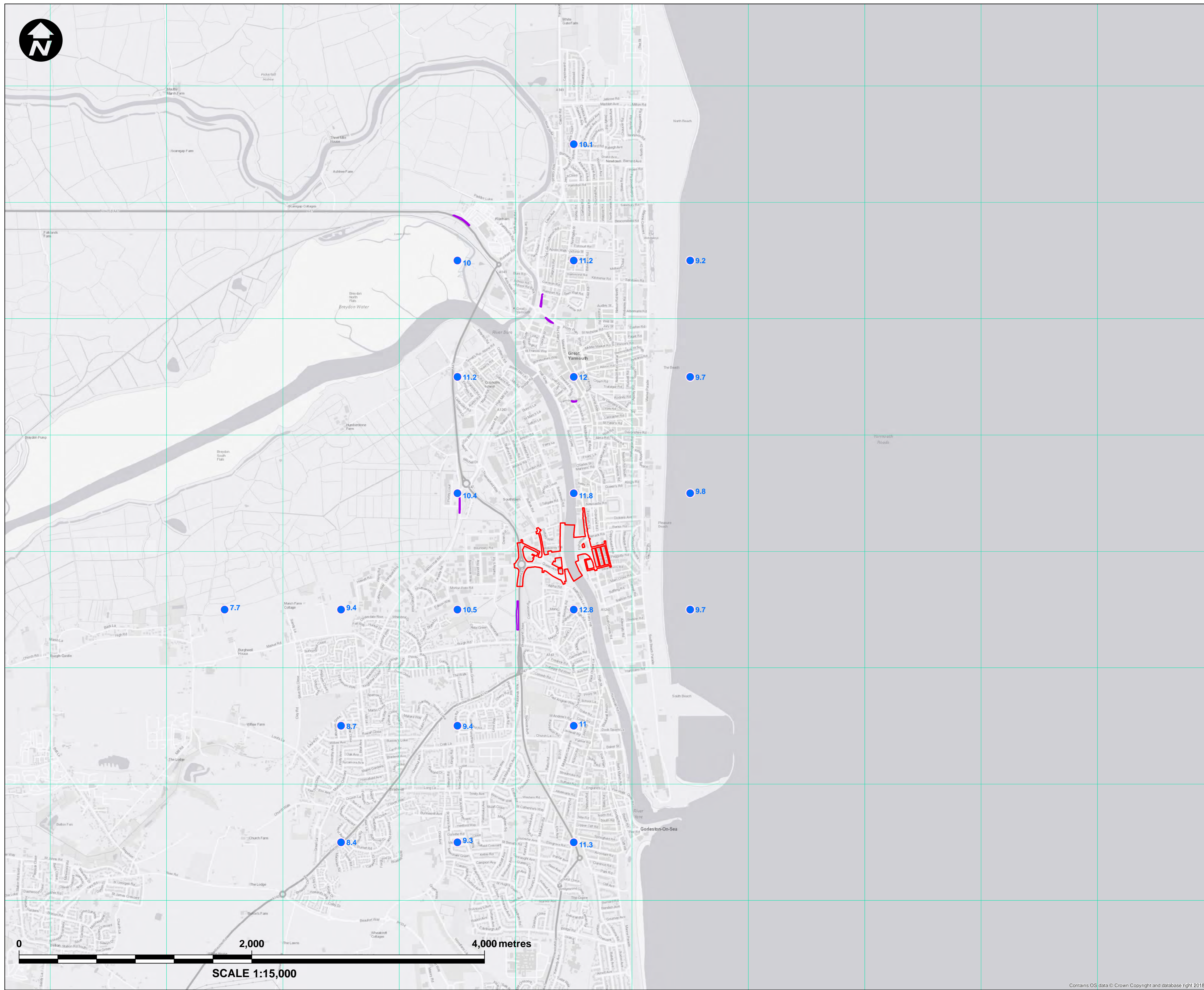
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 GYTRC-WSP-EGN-XX-DR-EN-2004





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**GREAT YARMOUTH
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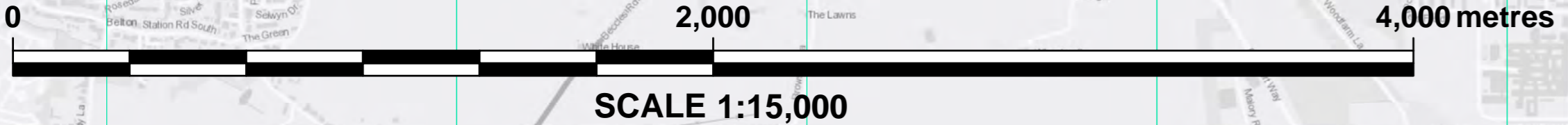
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 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 OPENING YEAR 2023 NO₂
 SHEET 2 OF 8
 (REGULATION 5(2)(a))

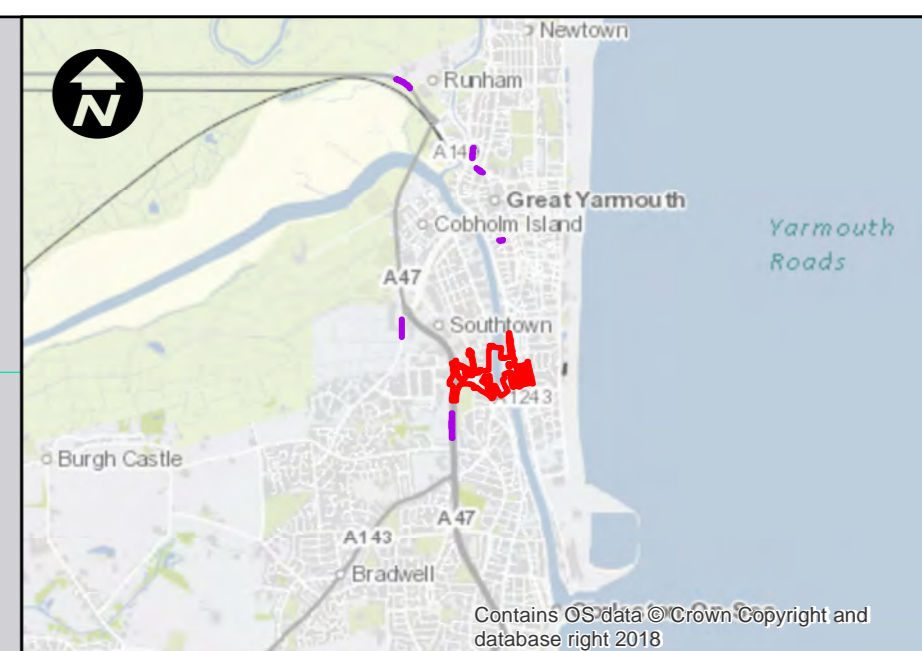
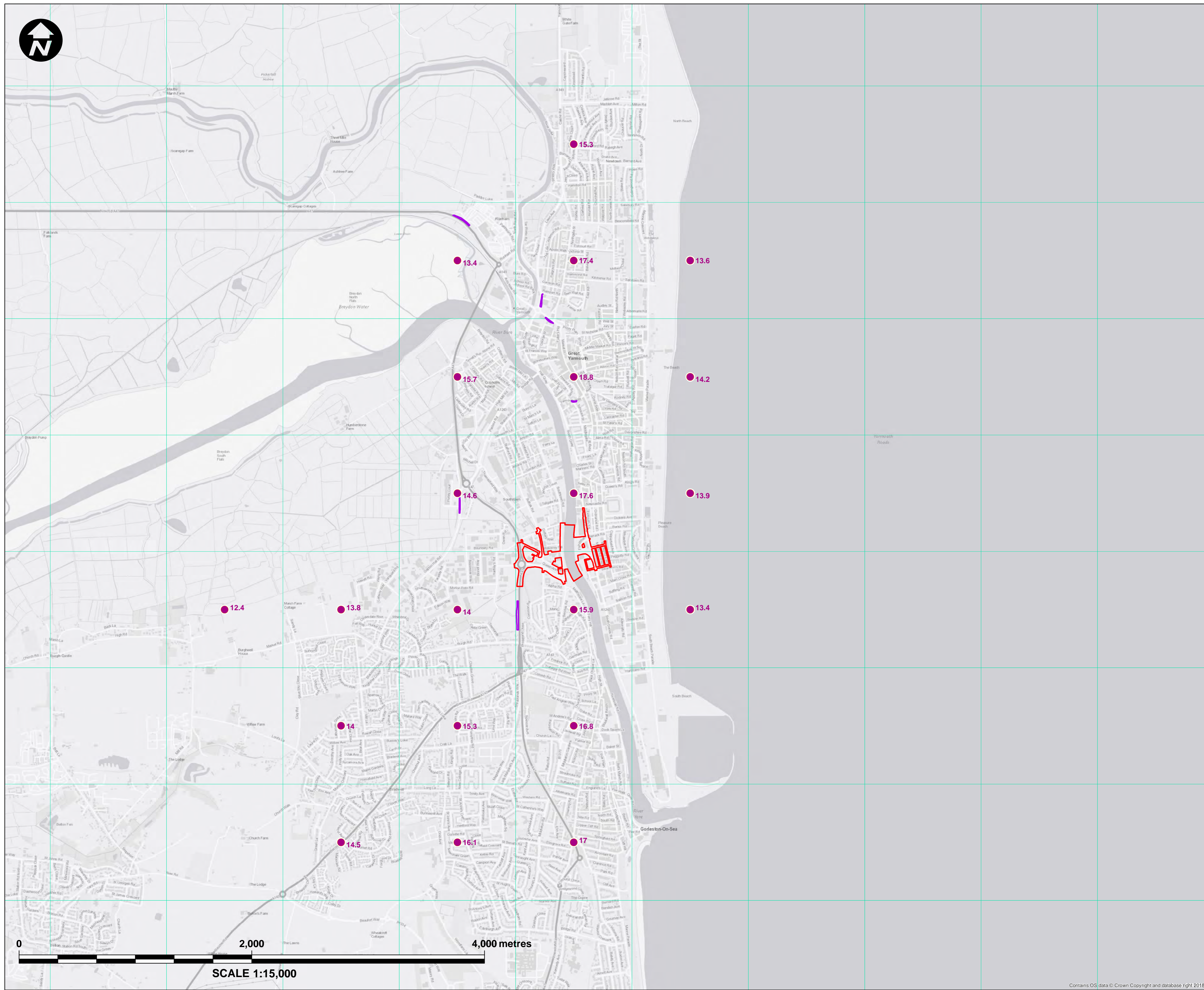
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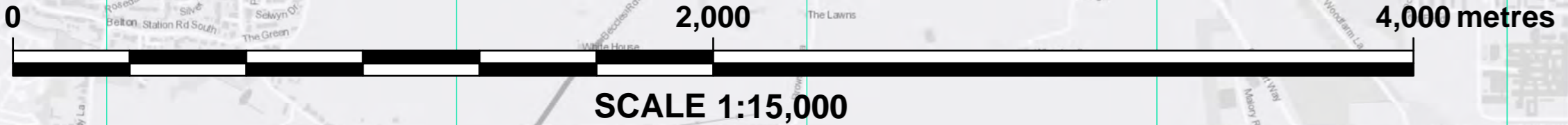
PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
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 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 BASE YEAR 2017 PM₁₀
 SHEET 3 OF 8
 (REGULATION 5(2)(a))

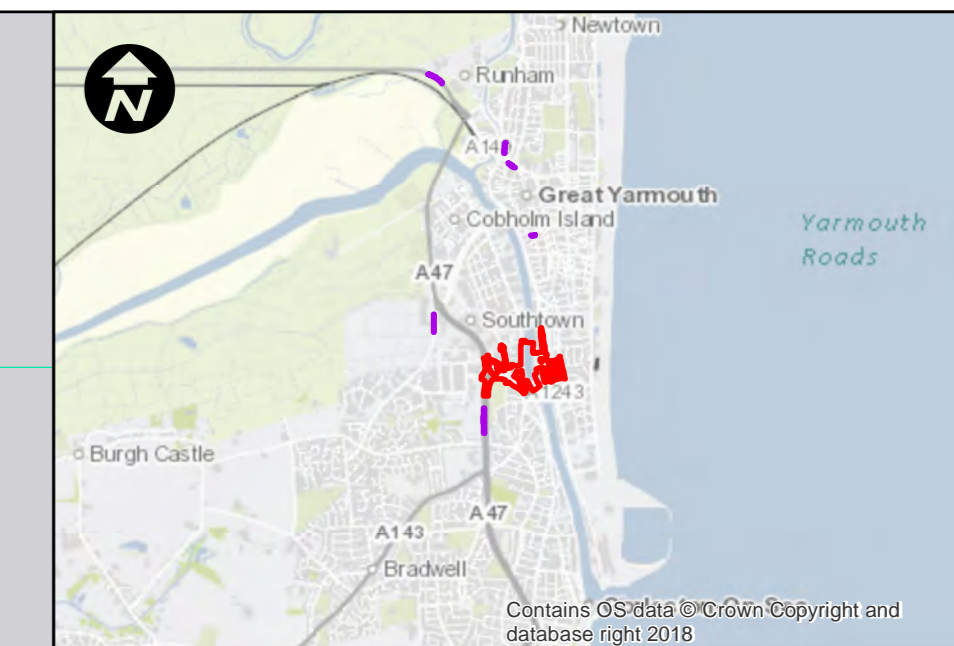
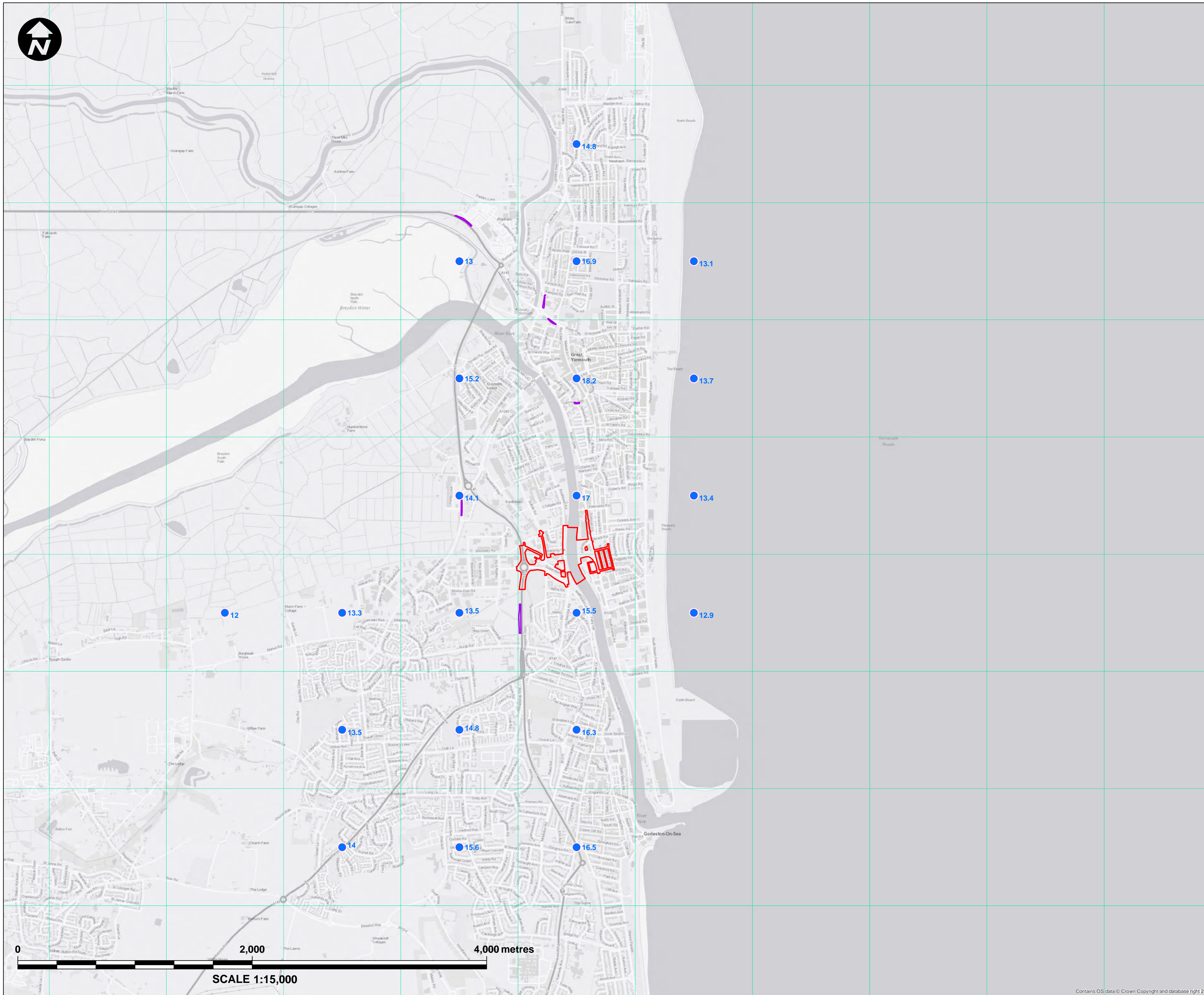
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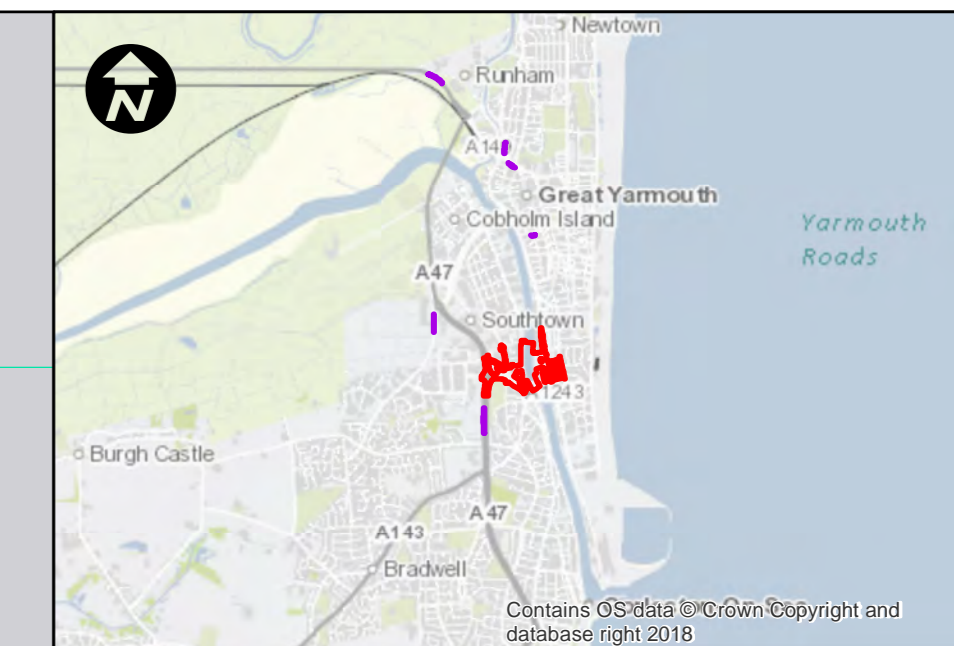
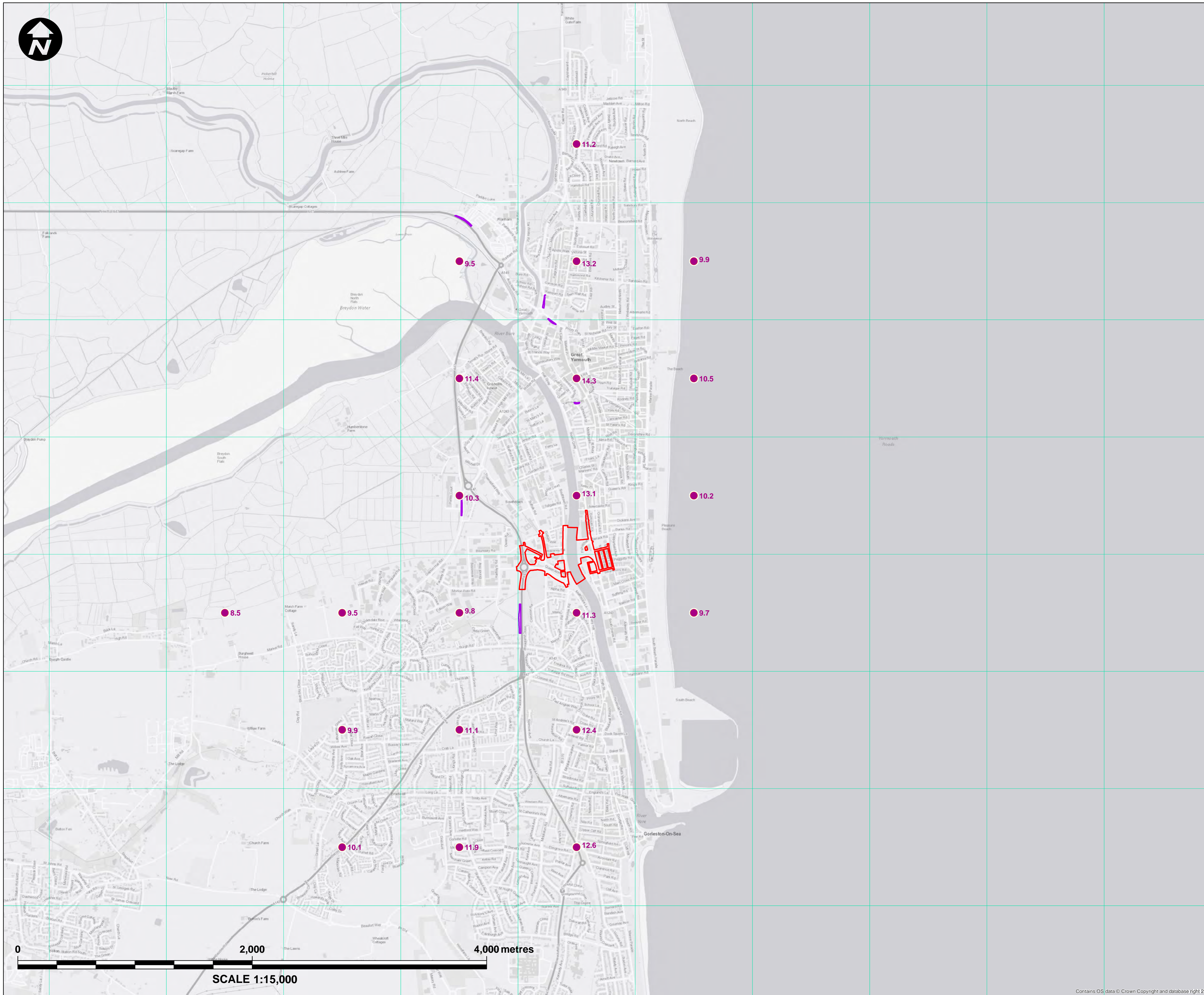
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 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 OPENING YEAR 2023 PM₁₀
 SHEET 4 OF 8
 (REGULATION 5(2)(a))

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FIGURE 6.1E
 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 BASE YEAR 2017 PM_{2.5}
 SHEET 5 OF 8
 (REGULATION 5(2)(a))

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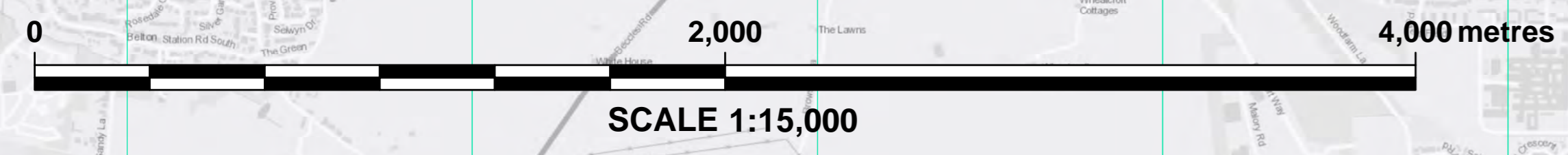
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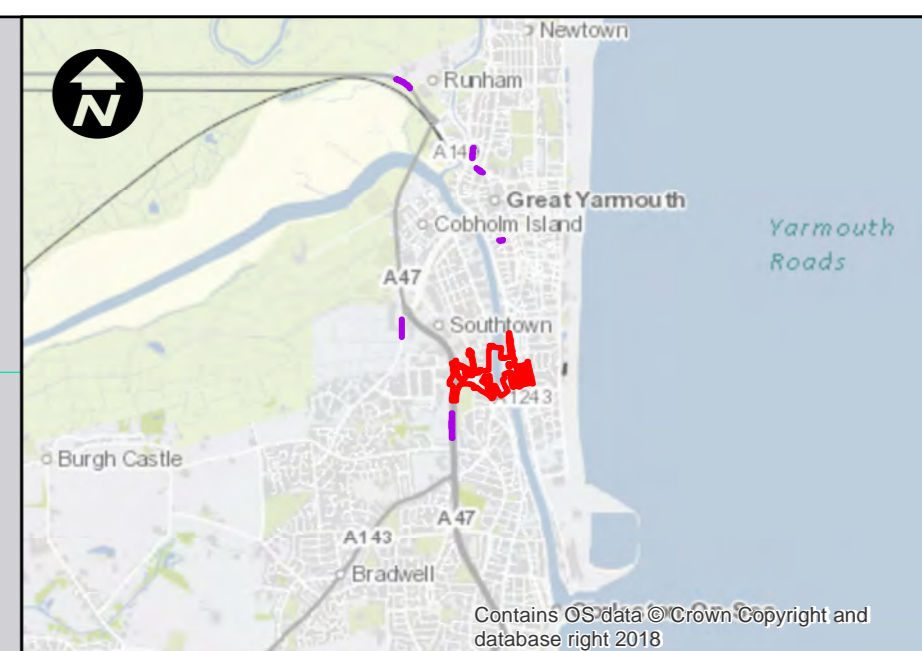
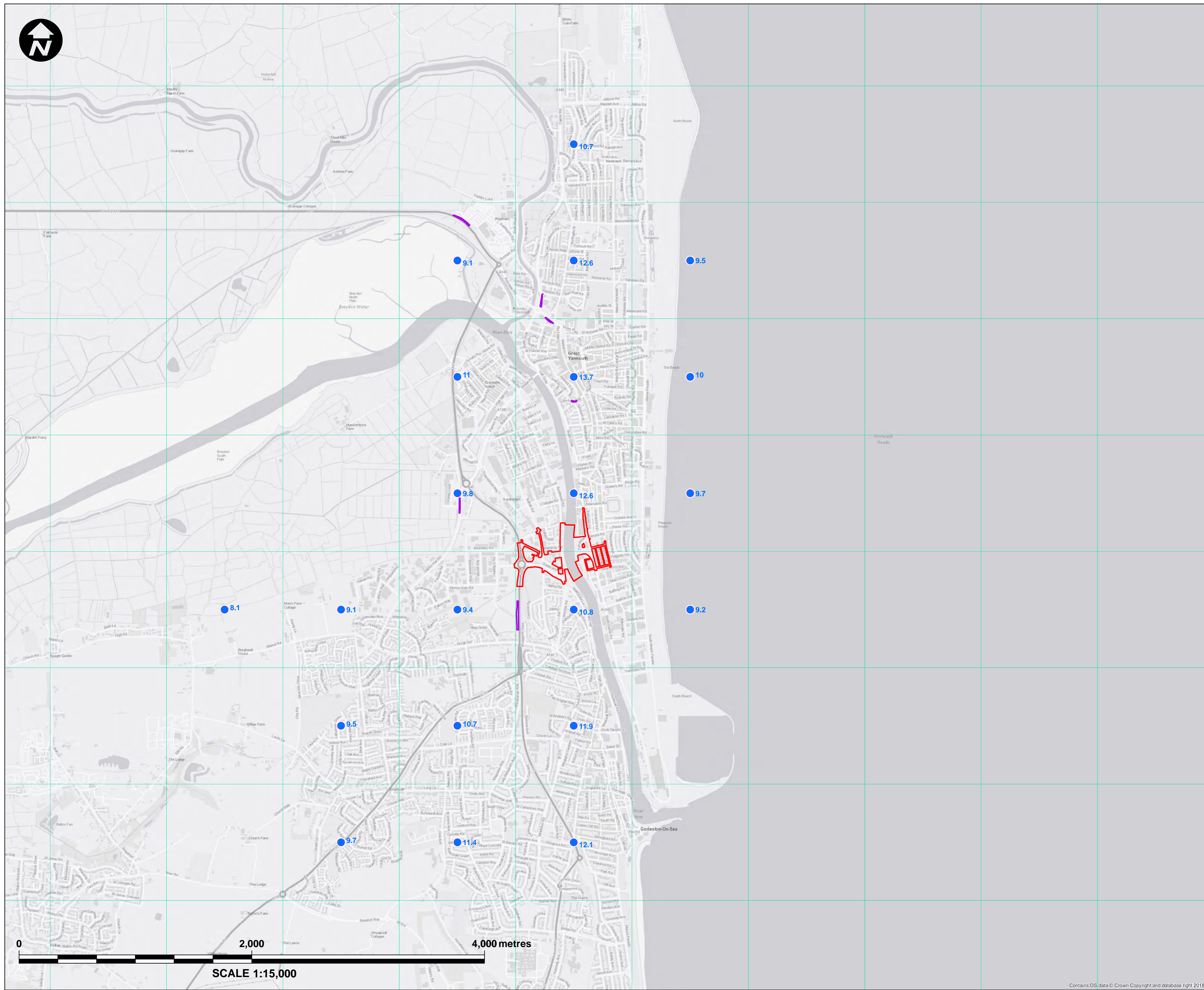
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GYTRC-WSP-EGN-XX-DR-EN-2008



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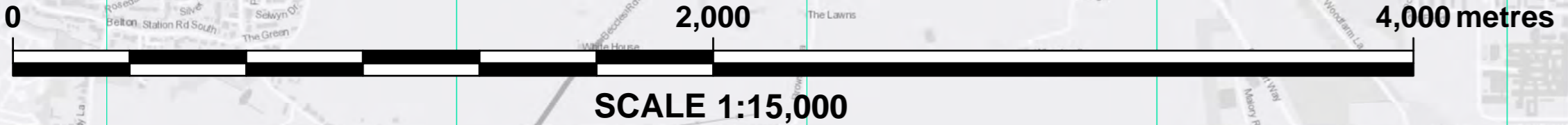
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 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 OPENING YEAR 2023 PM_{2.5}
 SHEET 6 OF 8
 (REGULATION 5(2)(a))

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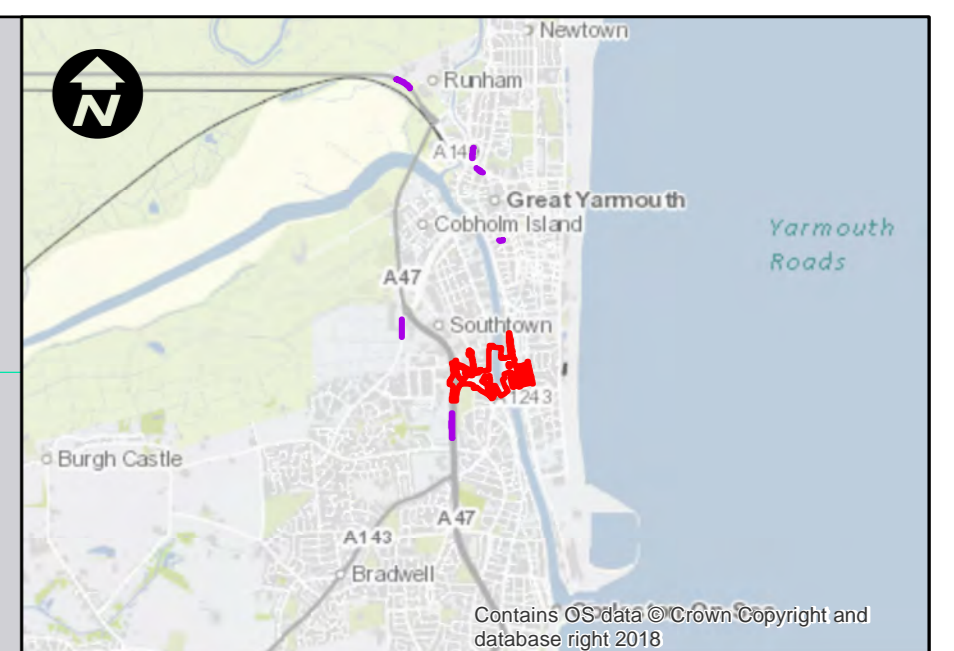
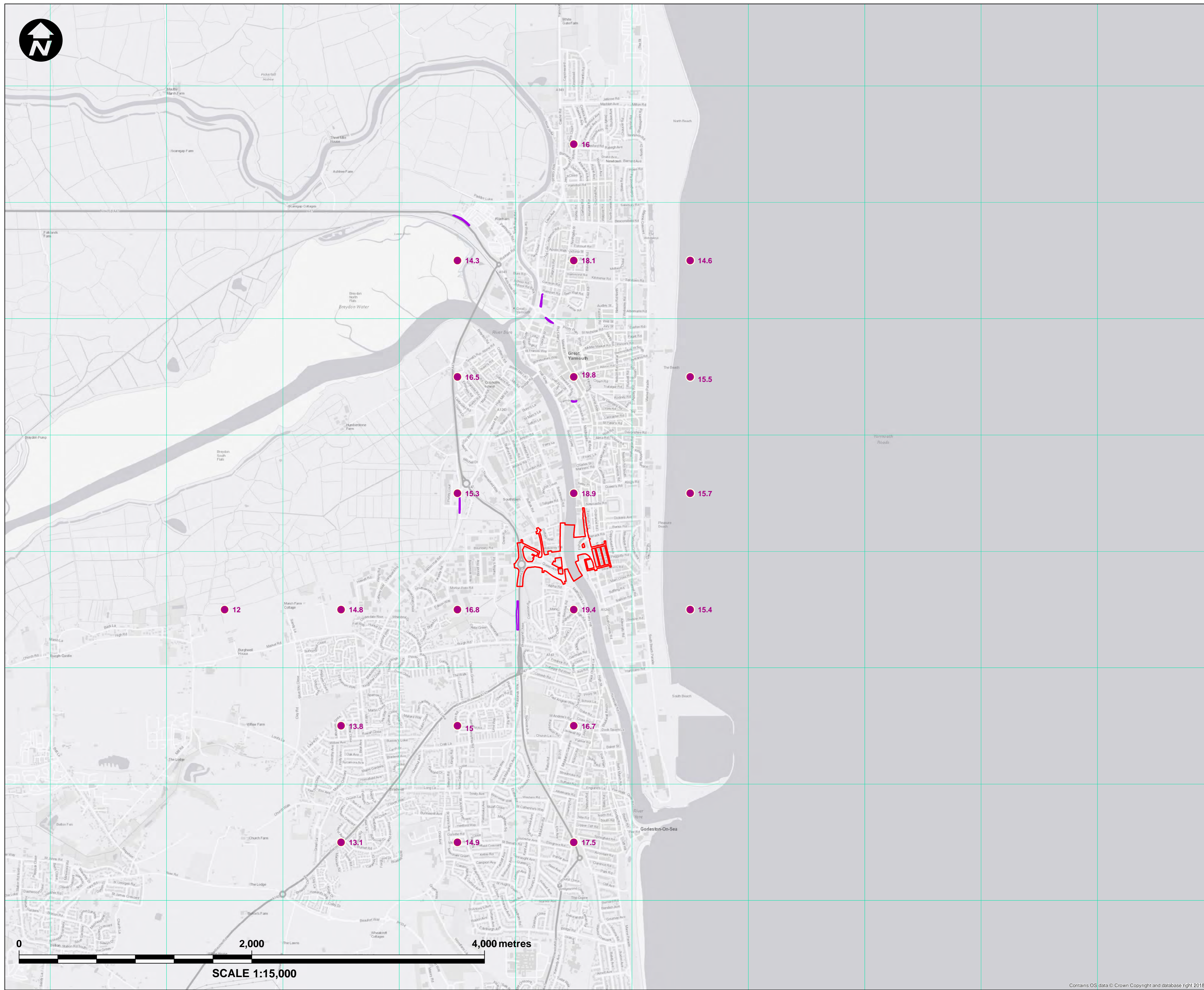
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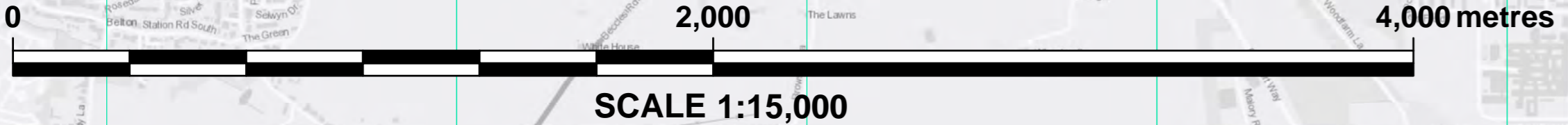
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 FIGURE 6.1G
 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 BASE YEAR 2017 NO_x
 SHEET 7 OF 8
 (REGULATION 5(2)(a))

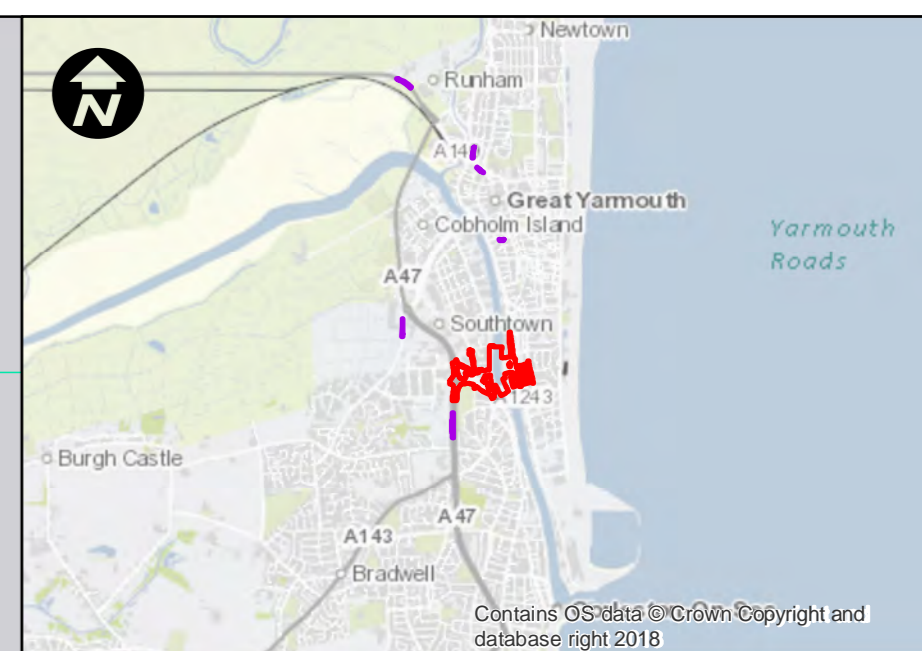
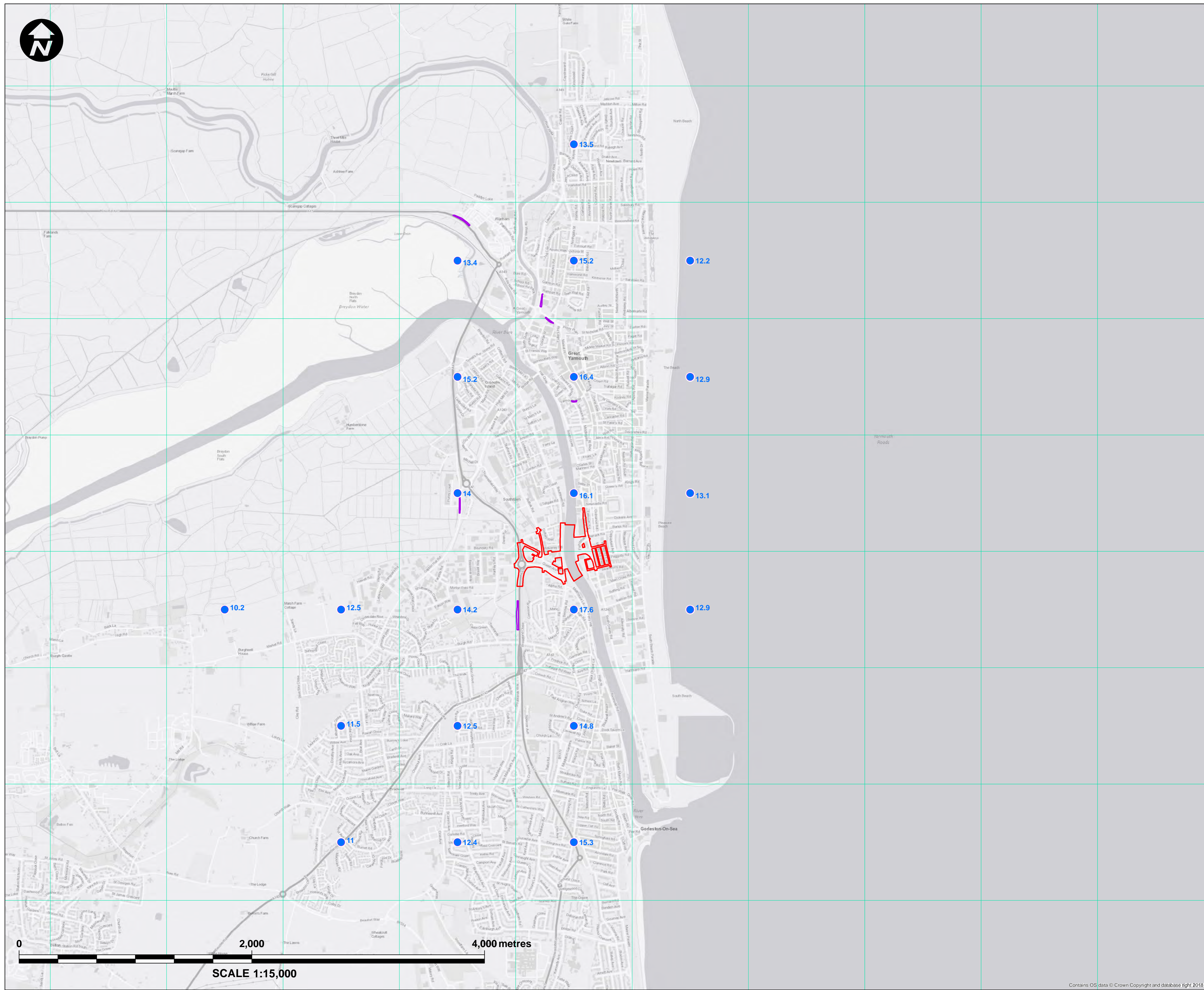
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 GYTRC-WSP-EGN-XX-DR-EN-2010





- Key:**
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 - 2023 Defra Background NO_x Concentrations with Sector Removal of A Roads within the Grid Square

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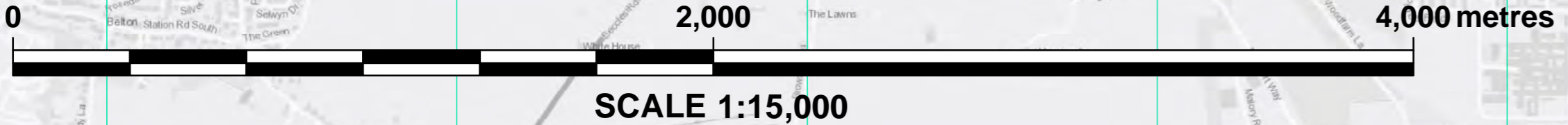
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 FIGURE 6.1H
 AIR QUALITY BACKGROUND
 POLLUTANT CONCENTRATIONS
 OPENING YEAR 2023 NO_x
 SHEET 8 OF 8
 (REGULATION 5(2)(a))

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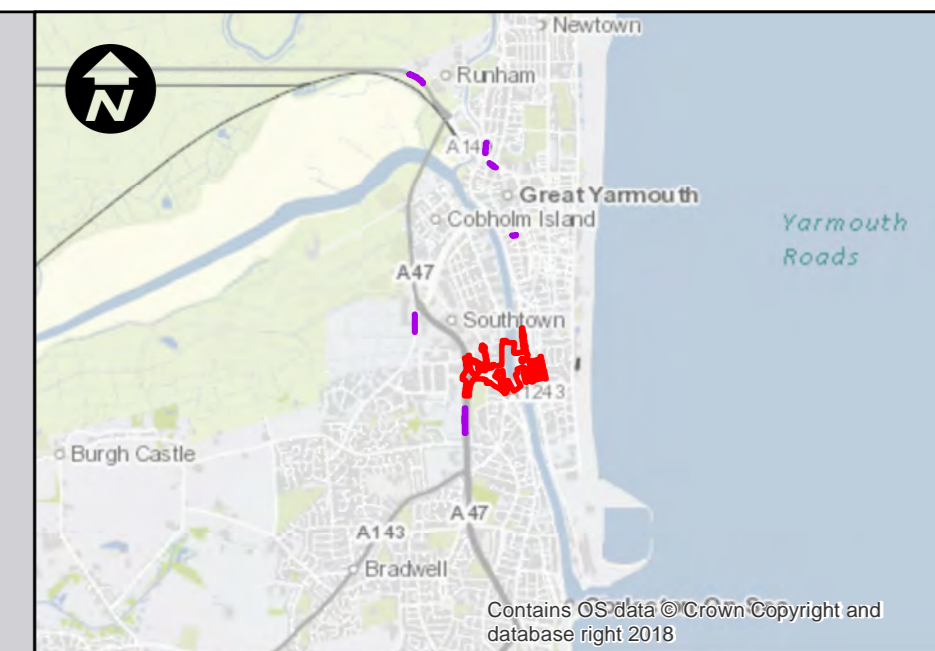
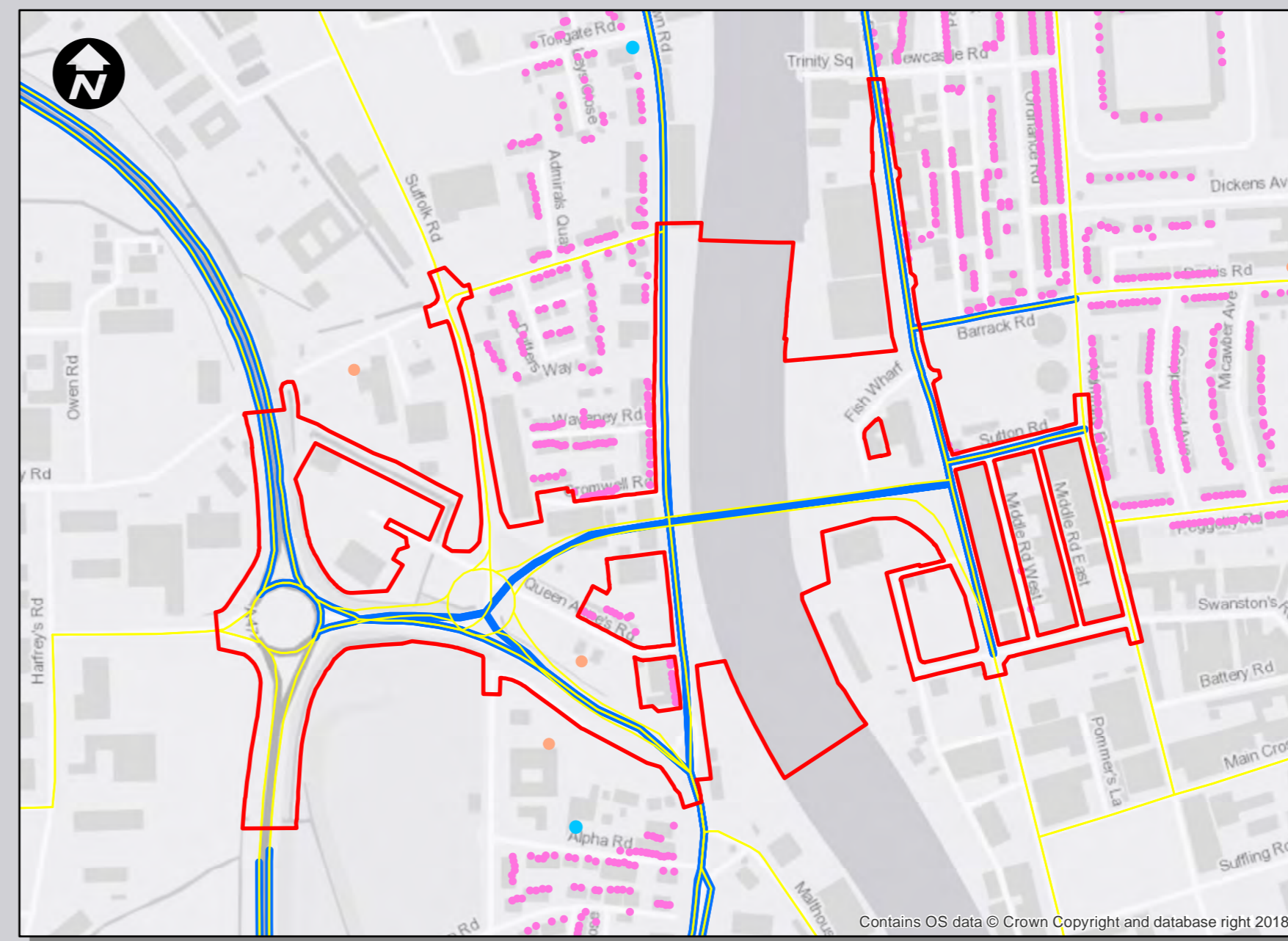
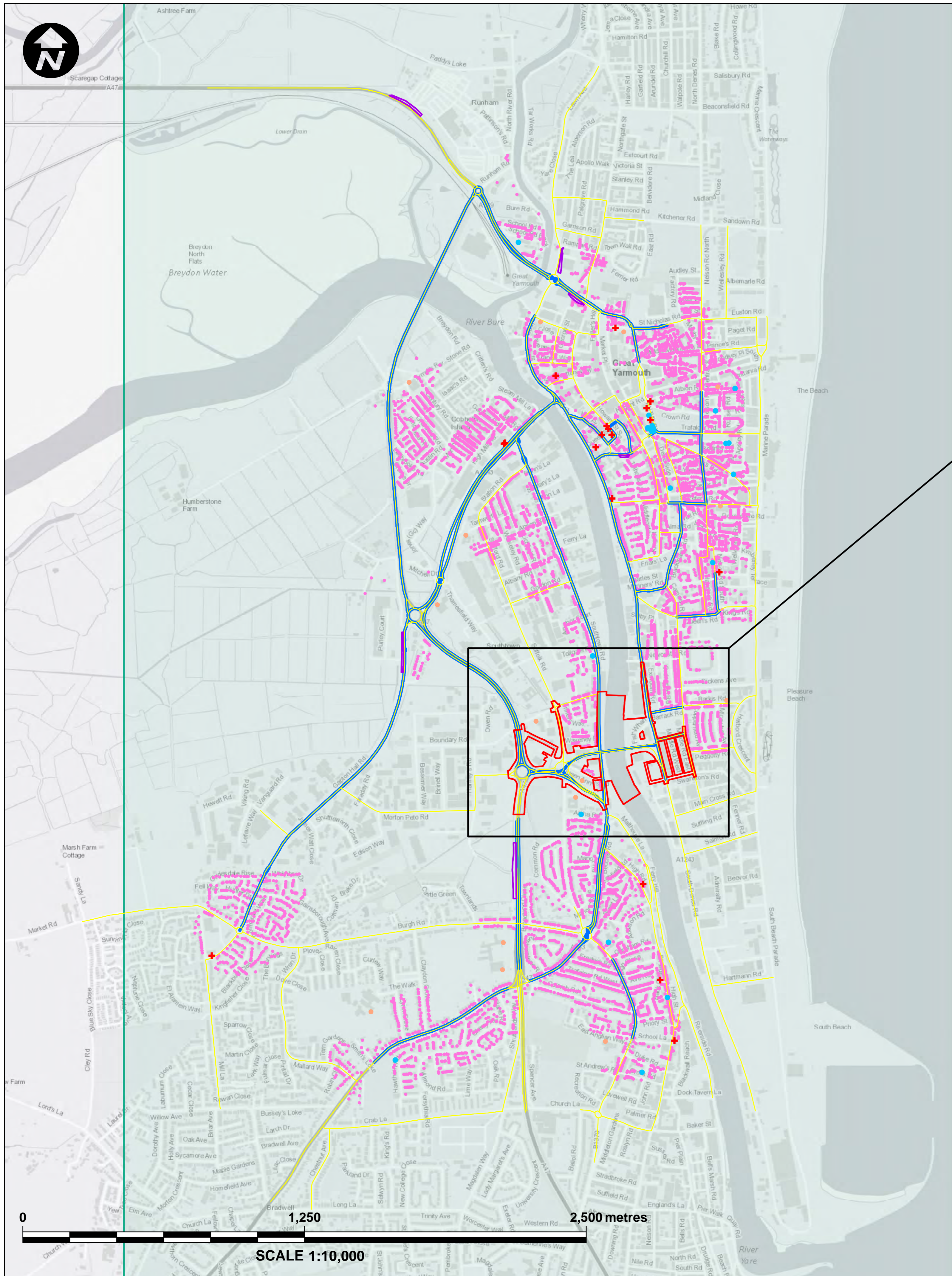
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 GYTRC-WSP-EGN-XX-DR-EN-2011



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- Key:**
- Principal Application Site
 - Satellite Application Sites
- Local Air Quality Sensitive Receptors**
- Education
 - + Health
 - Residential Care
 - Residential
- Local Model Road Network (LMRN)**
- Local Model Road Network (LMRN)
 - Local Affected Road Network (LARN)
- Traffic Reliability Area**
- Traffic Reliability Area

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PROJECT TITLE
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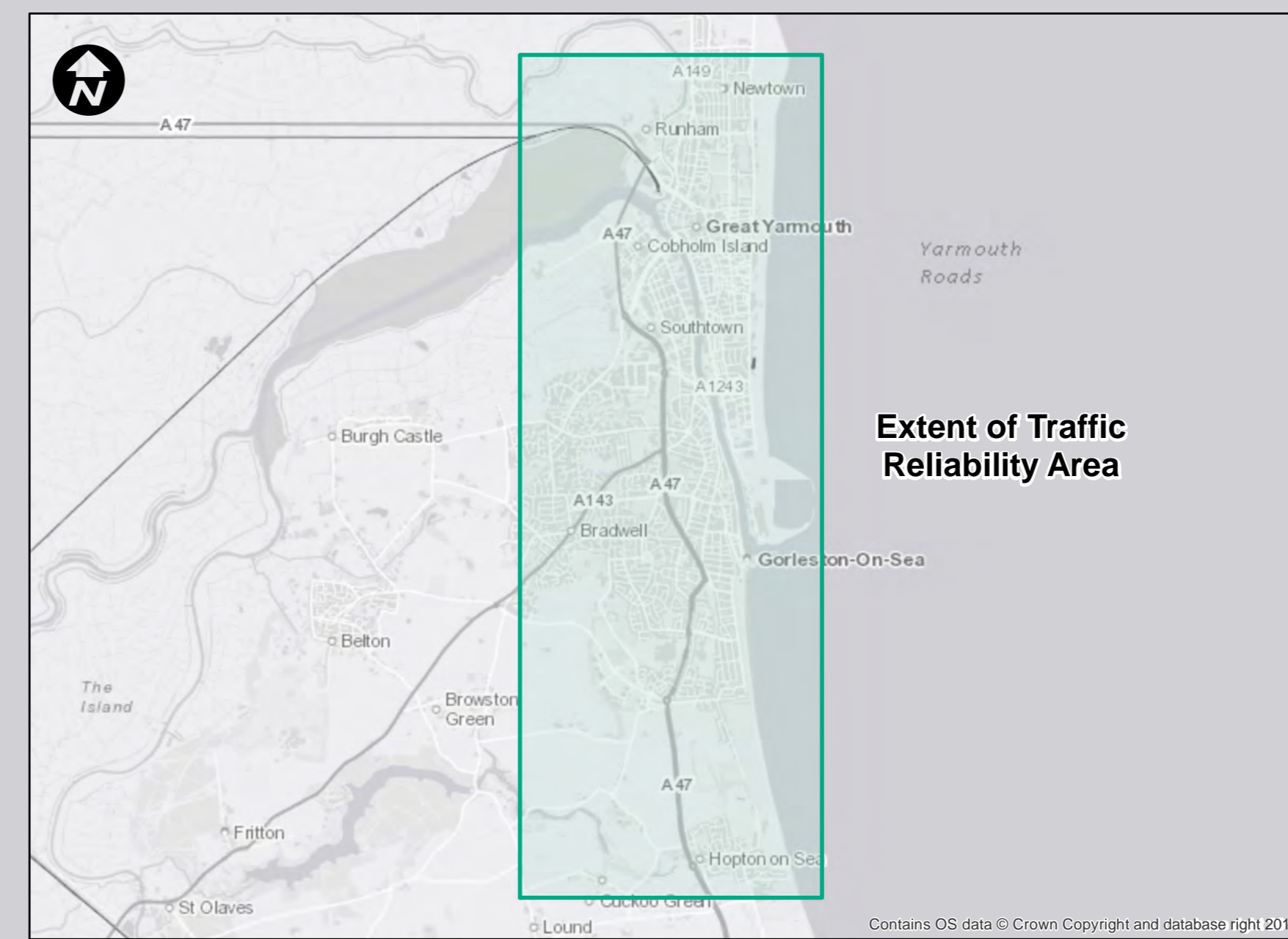
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**FIGURE 6.2
 AIR QUALITY OPERATIONAL
 ASSESSMENT STUDY AREA
 (REGULATION 5(2)(a))**

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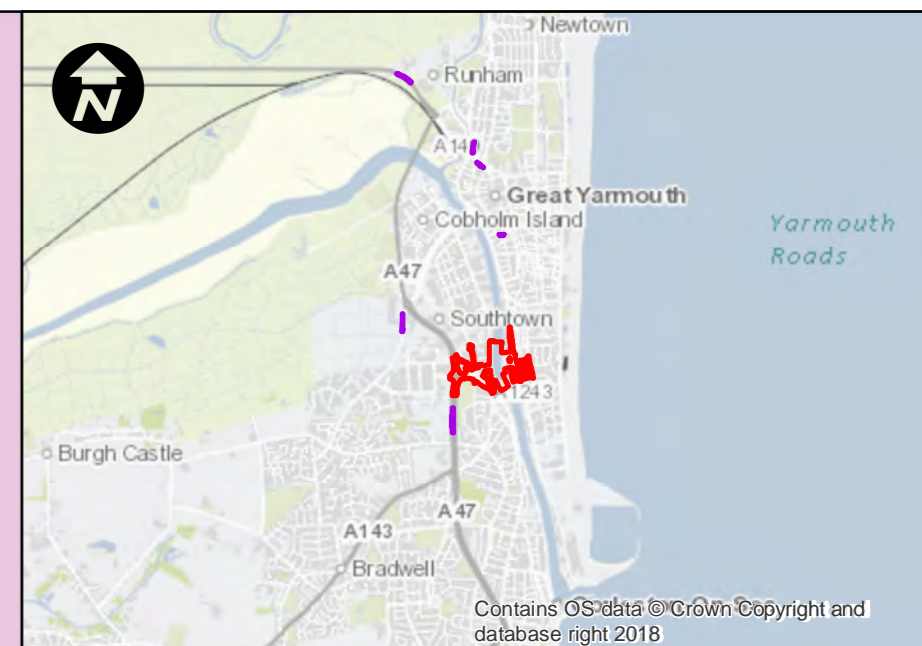
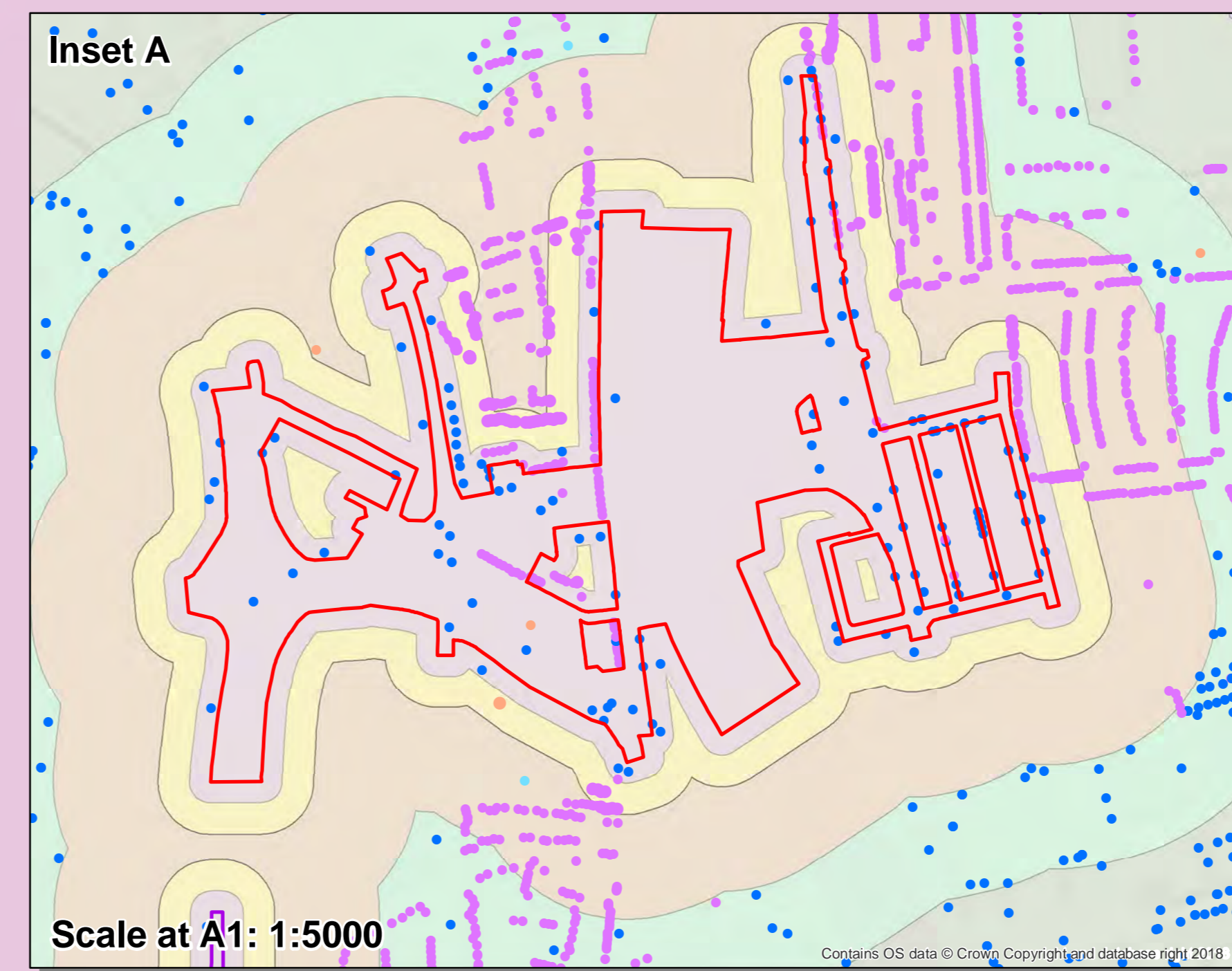
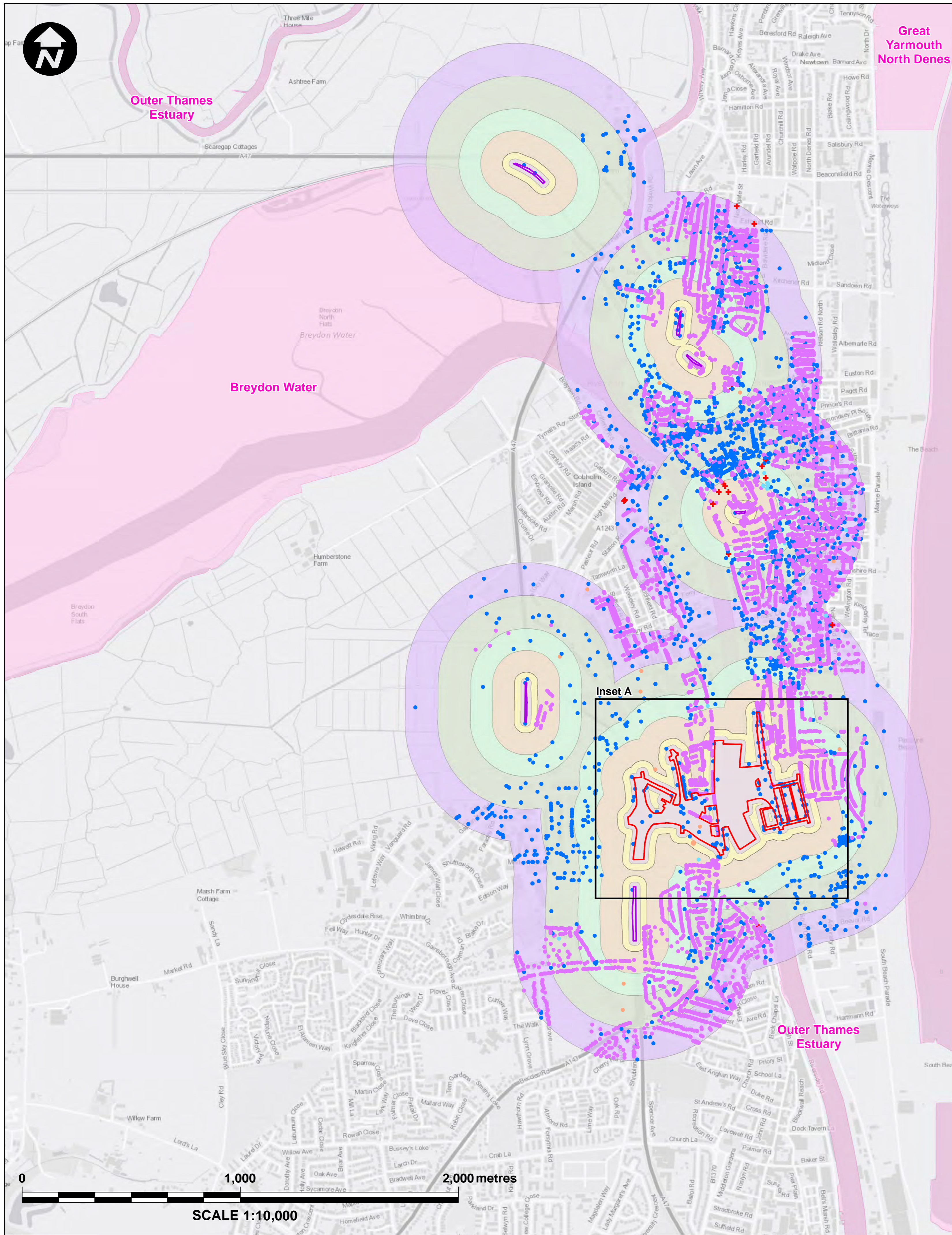
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Extent of Traffic Reliability Area

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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Special Protection Area (SPA)
 - 20m from Construction Boundary
 - 50m from Construction Boundary
 - 100m from Construction Boundary
 - 200m from Construction Boundary
 - 350m from Construction Boundary
 - 500m from Construction Boundary
- Sensitive Receptors**
- Educational
 - + Health and Care
 - Residential
 - Residential Care
 - Other Properties

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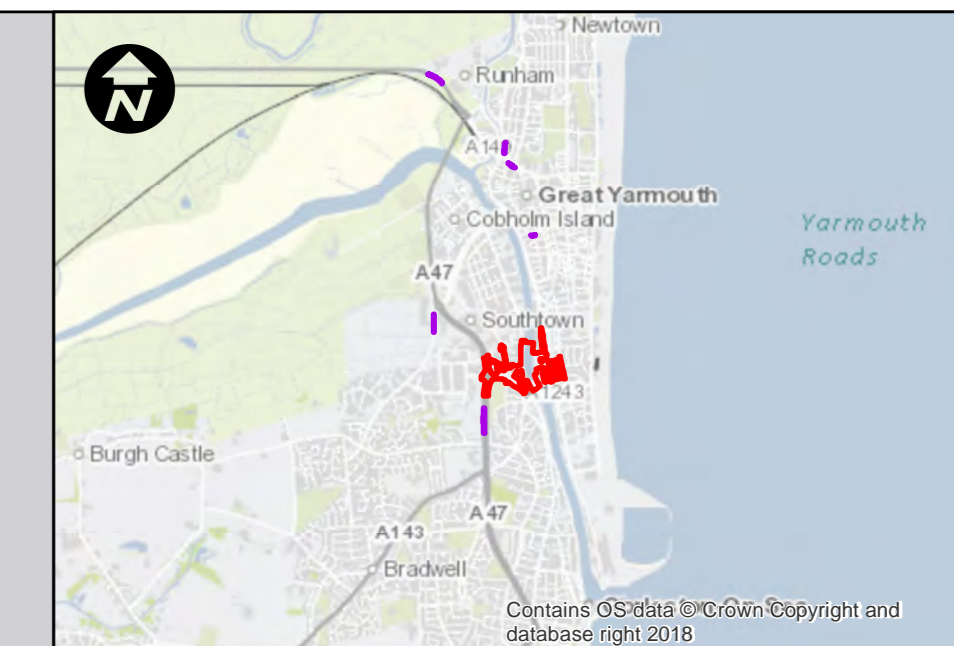
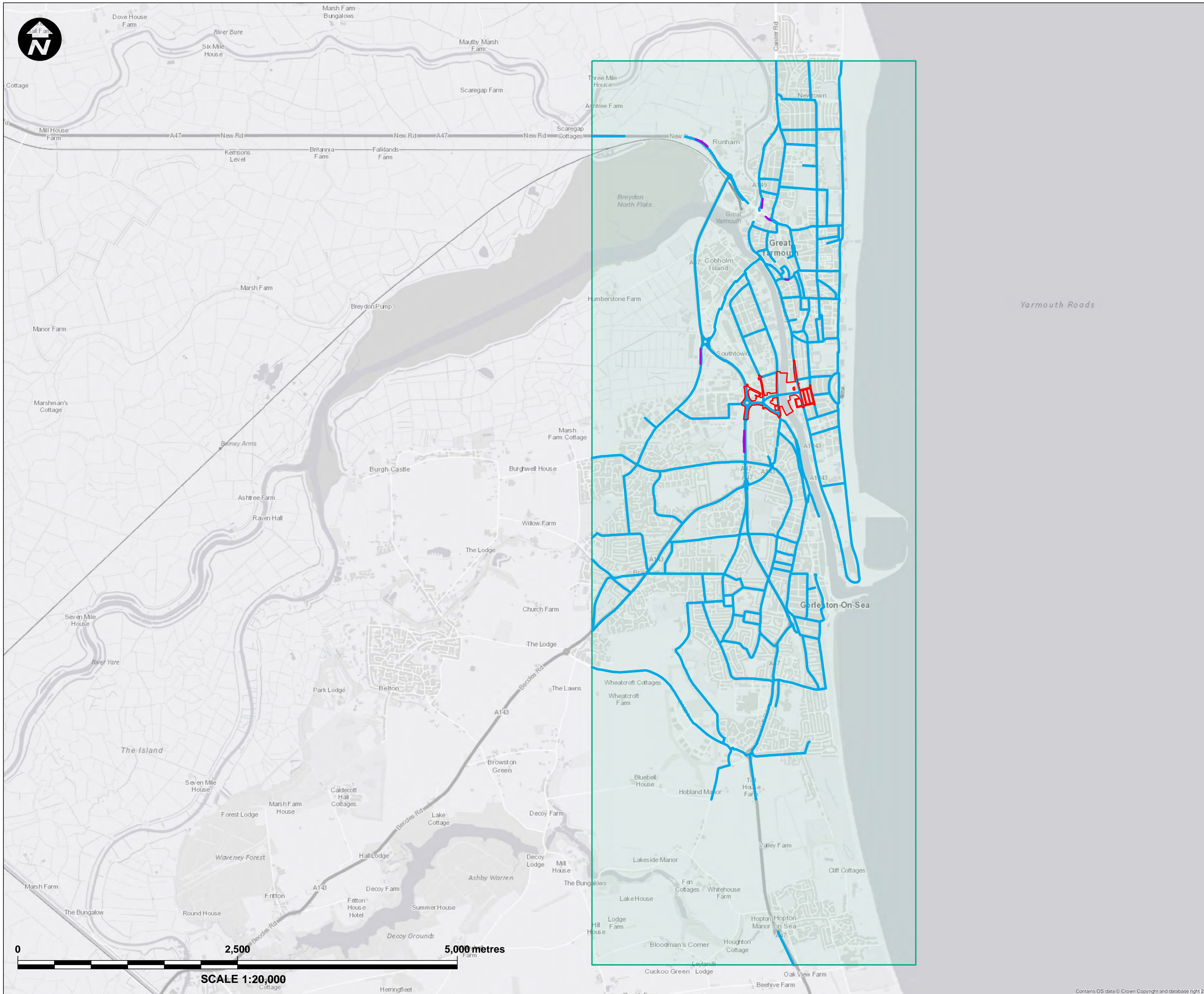
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**FIGURE 6.3
CONSTRUCTION DUST ASSESSMENT
STUDY AREA
(REGULATION 5(2)(a))**

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Key:

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- Regional Affected Road Network (RARN)
- Traffic Reliability Area

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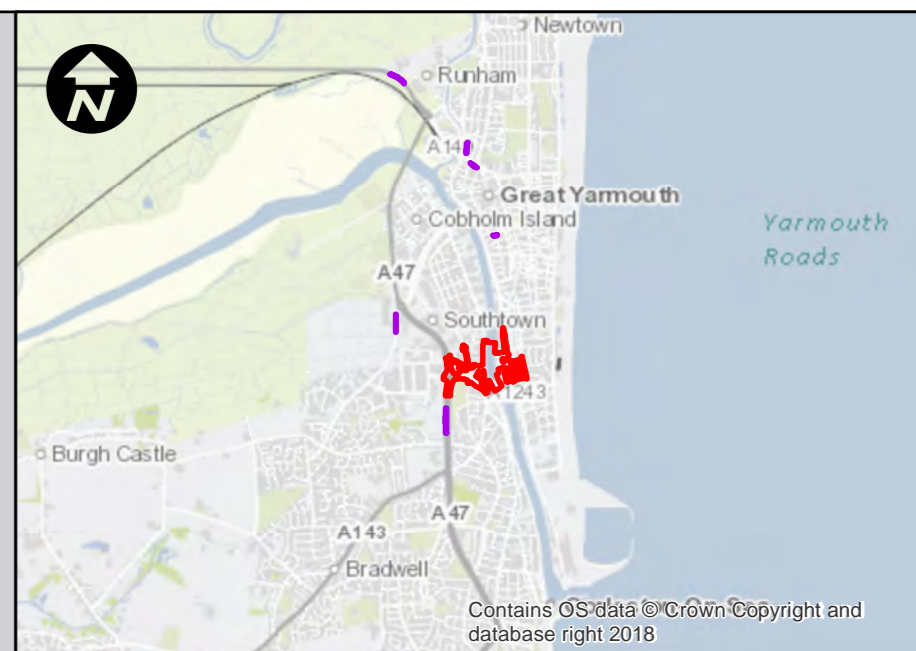
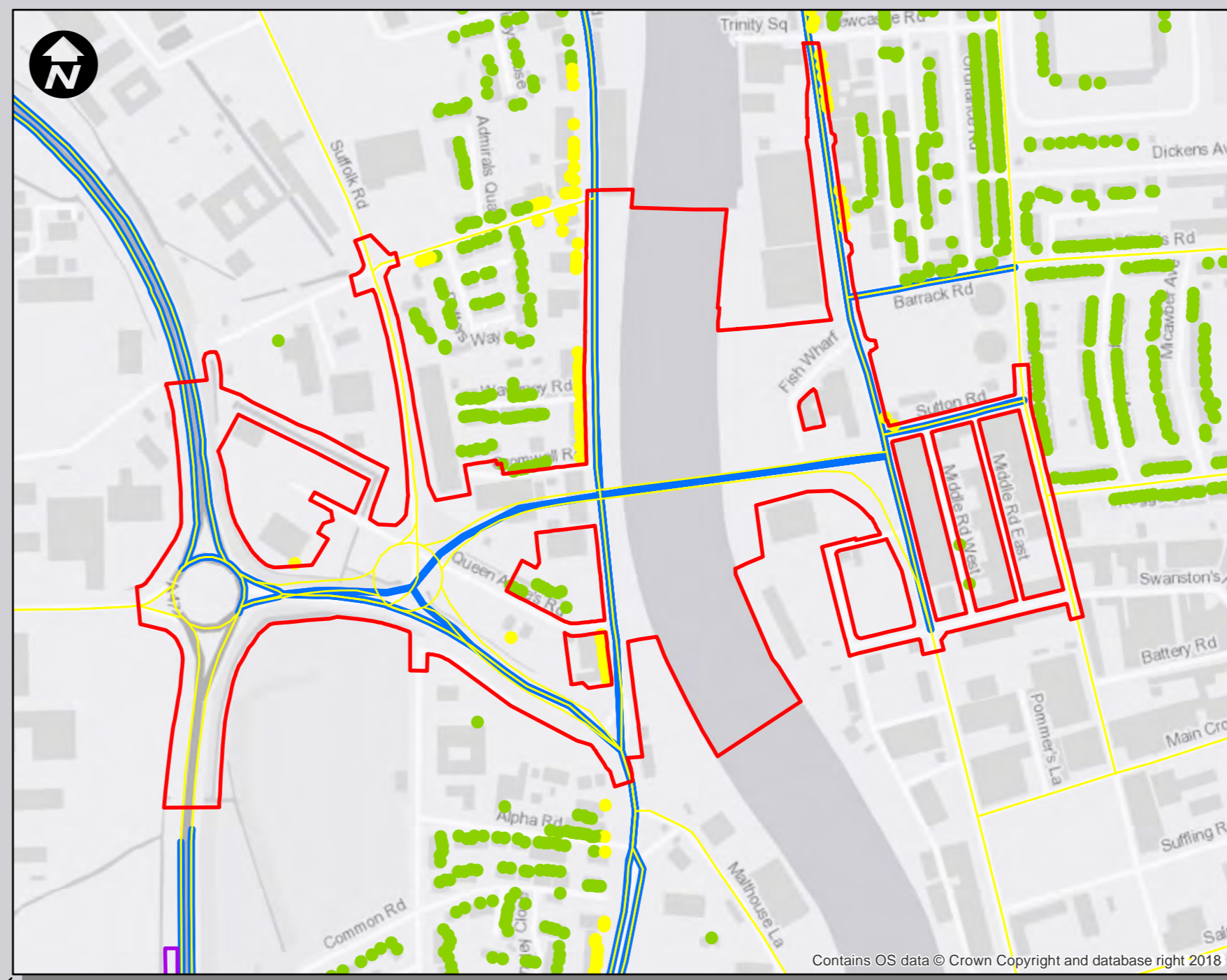
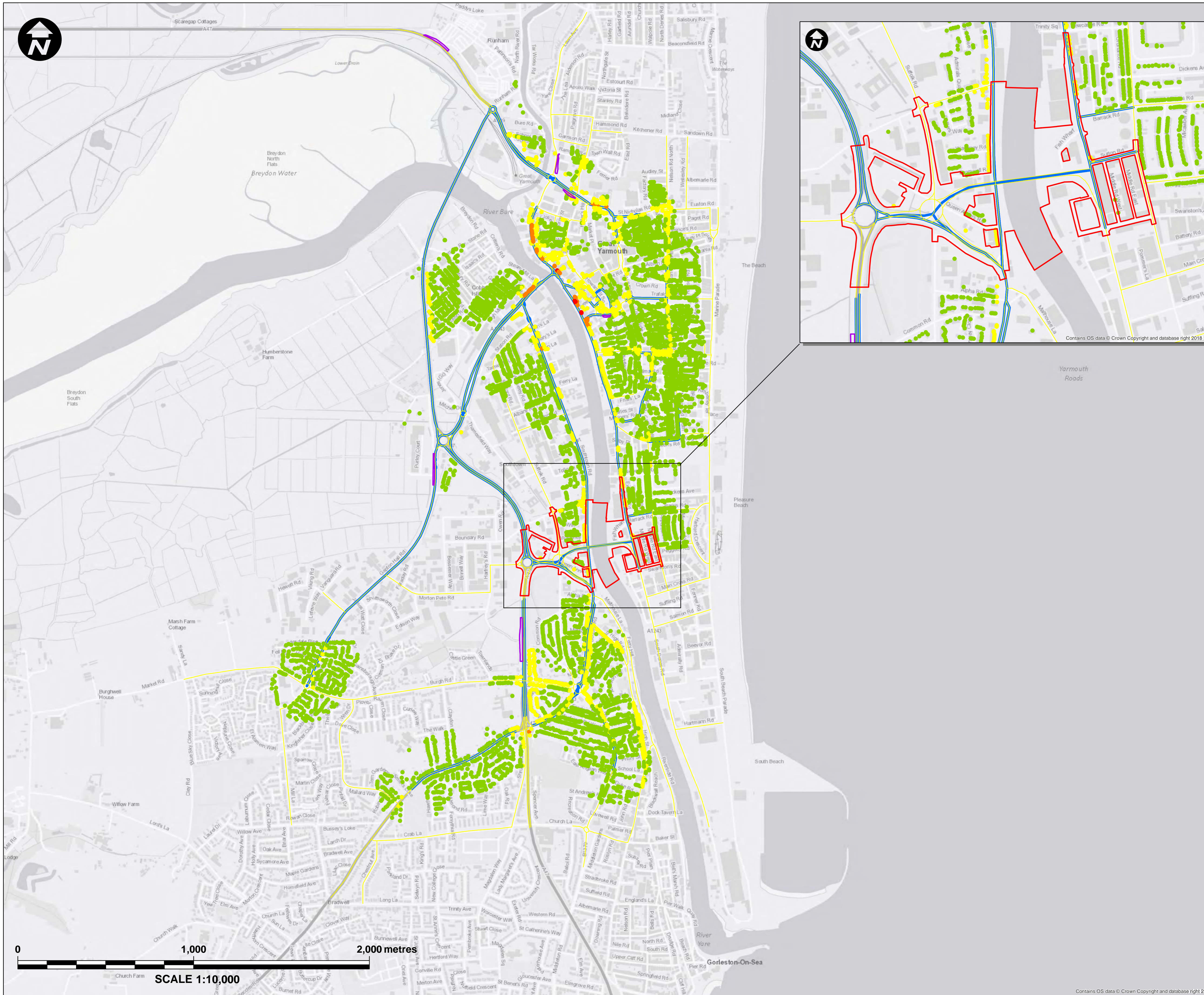
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**FIGURE 6.4
 AIR QUALITY REGIONAL
 ASSESSMENT STUDY AREA
 (REGULATION 5(2)(a))**

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 GYTRC-WSP-EGN-XX-DR-EN-2014



- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Local Model Road Network (LMRN)
 - Local Affected Road Network (LARN)
- 2017 Annual Mean NO₂ Concentration (µg/m³)**
- <10
 - 10 to 20
 - 20 to 30
 - 30 to 40
 - >40

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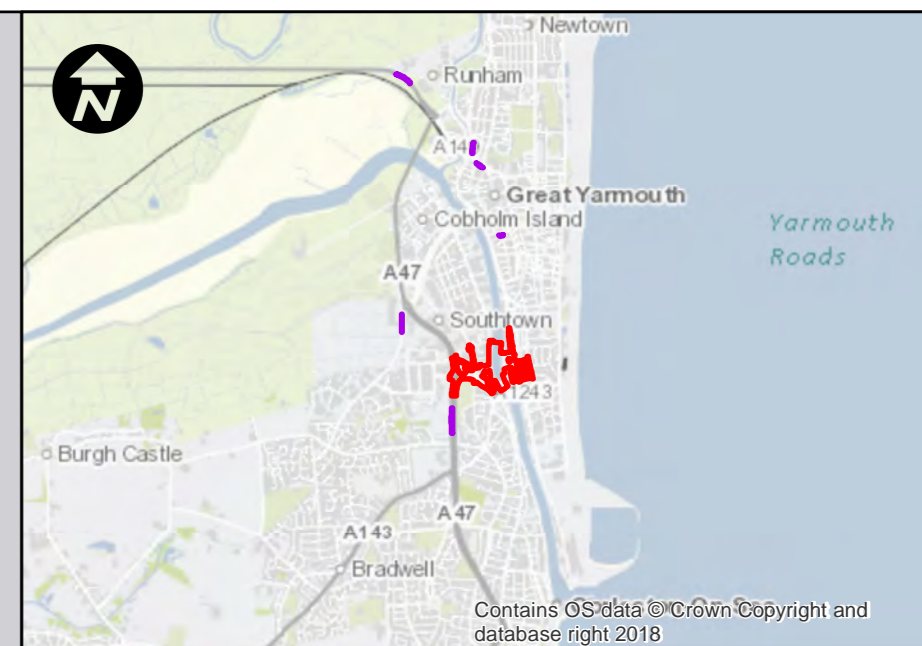
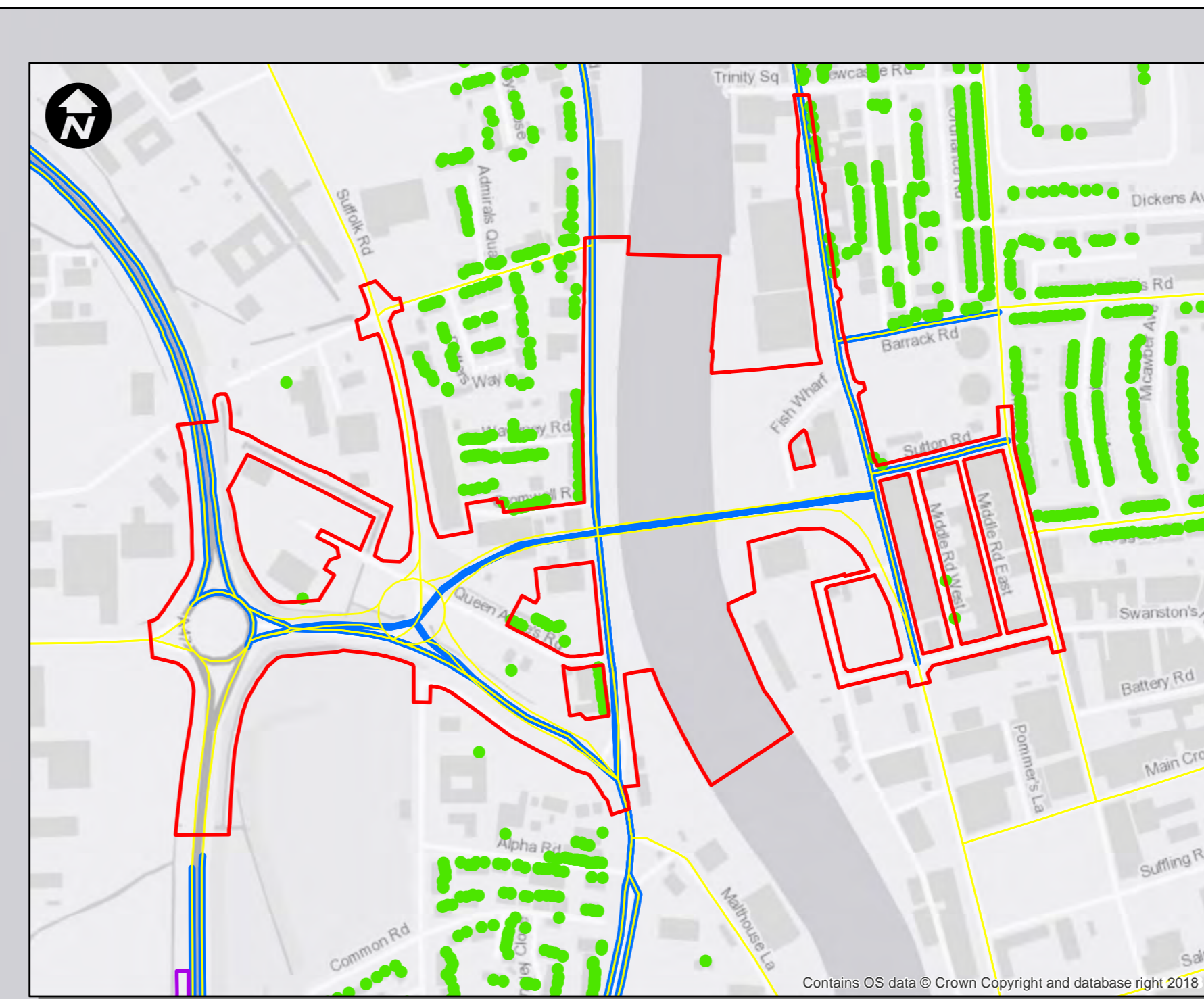
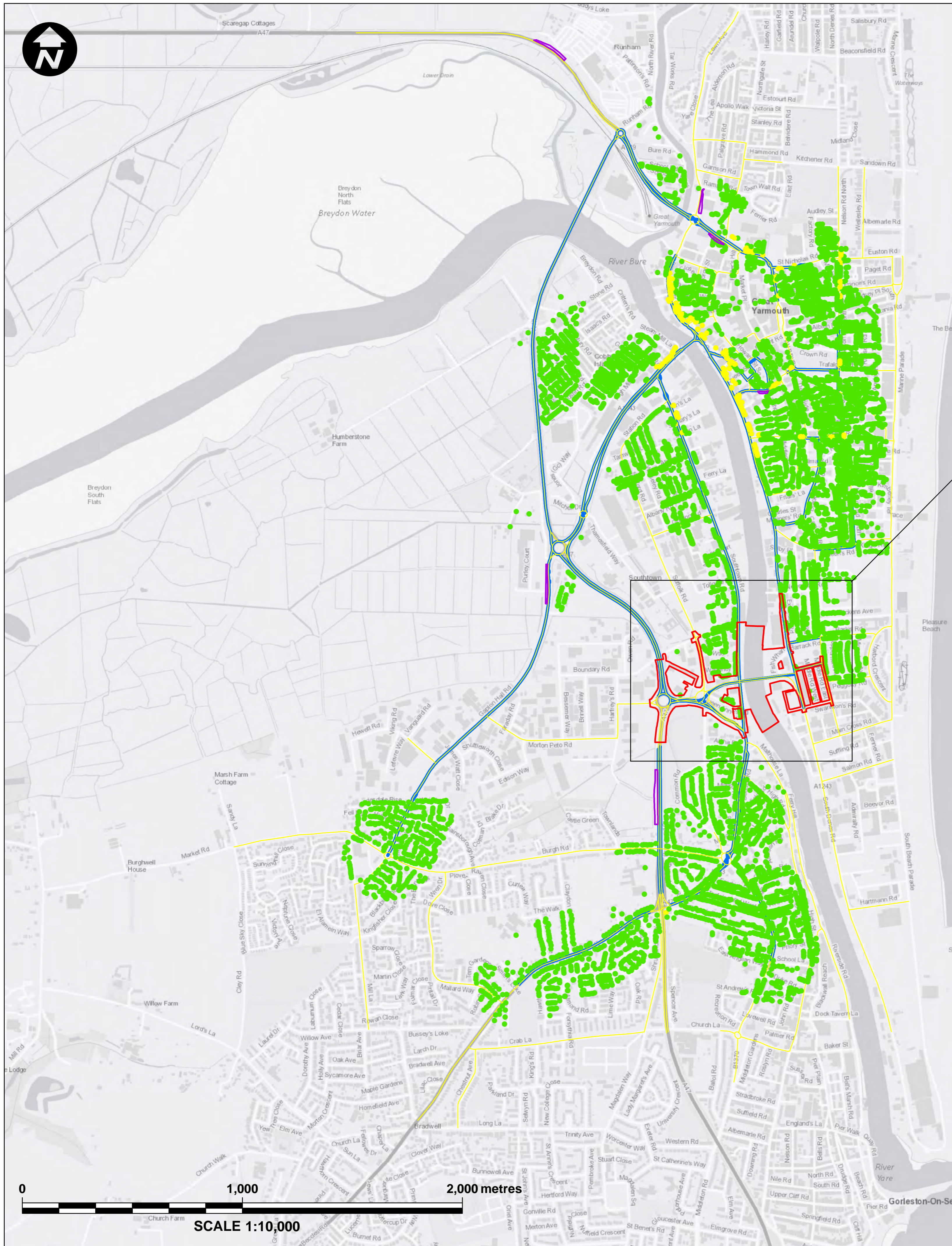
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**FIGURE 6.5
 AIR QUALITY OPERATIONAL
 ASSESSMENT NO2 RESULTS 2017
 BASE YEAR SCENARIO
 (REGULATION 5(2)(a))**

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Key:

- Principal Application Site
- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2017 Annual Mean PM₁₀ Concentration (µg/m³)

- <10
- 10 to 20
- 20 to 30
- 30 to 40
- >40

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PROJECT TITLE
**GREAT YARMOUTH
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DRAWING TITLE FIGURE 6.6
 AIR QUALITY OPERATIONAL
 ASSESSMENT PM10 RESULTS 2017
 BASE YEAR SCENARIO
 (REGULATION 5(2)(a))

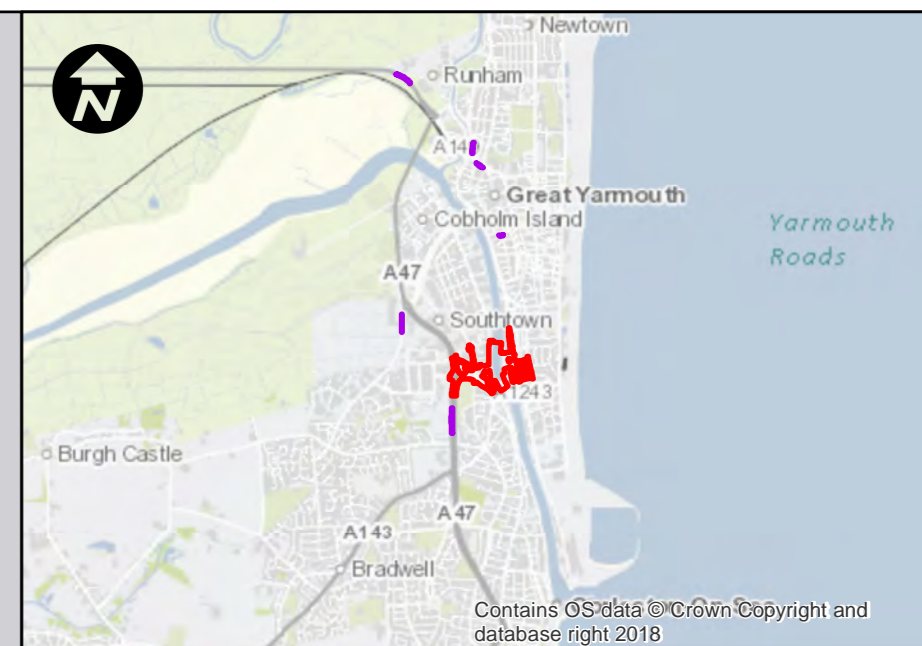
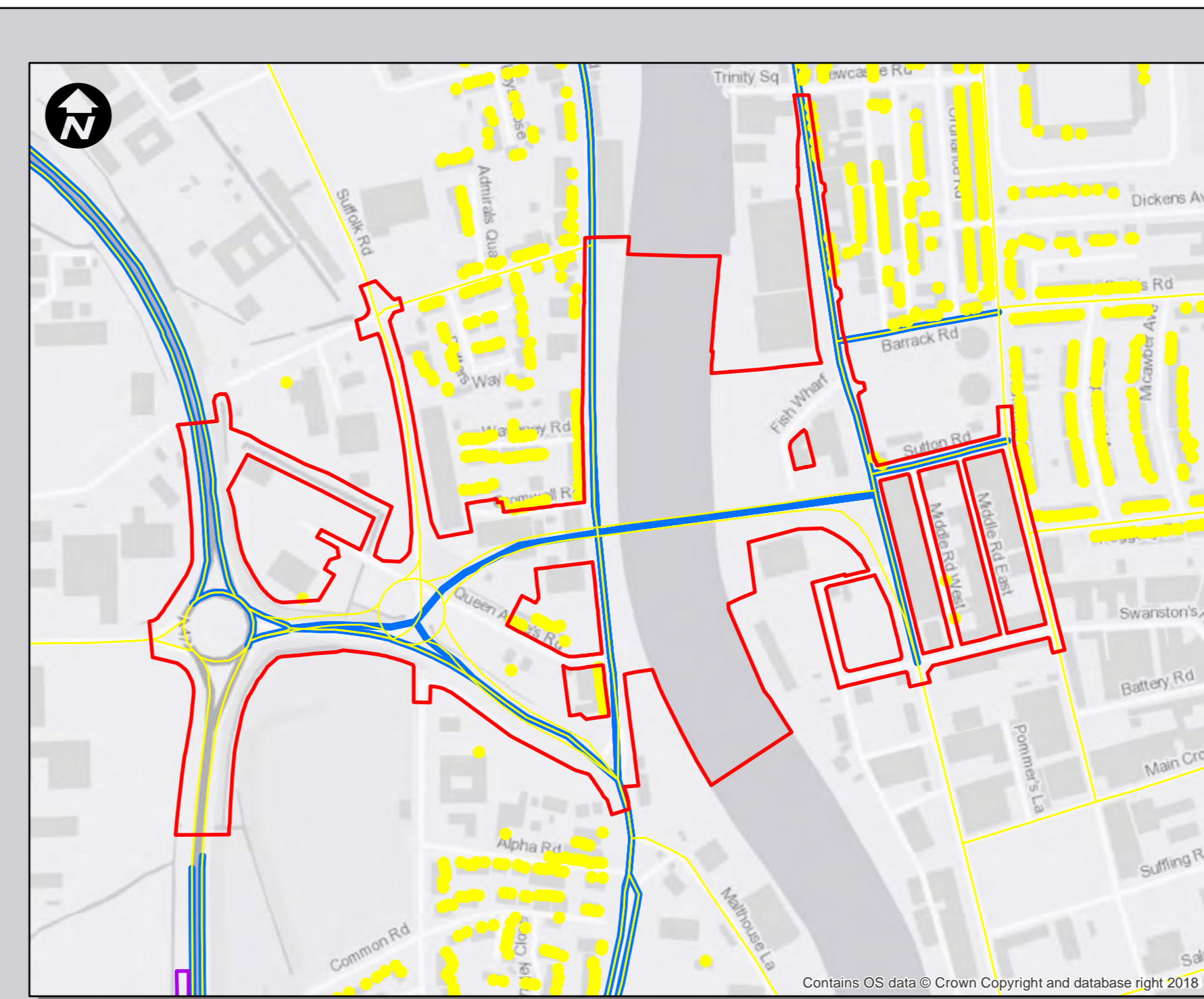
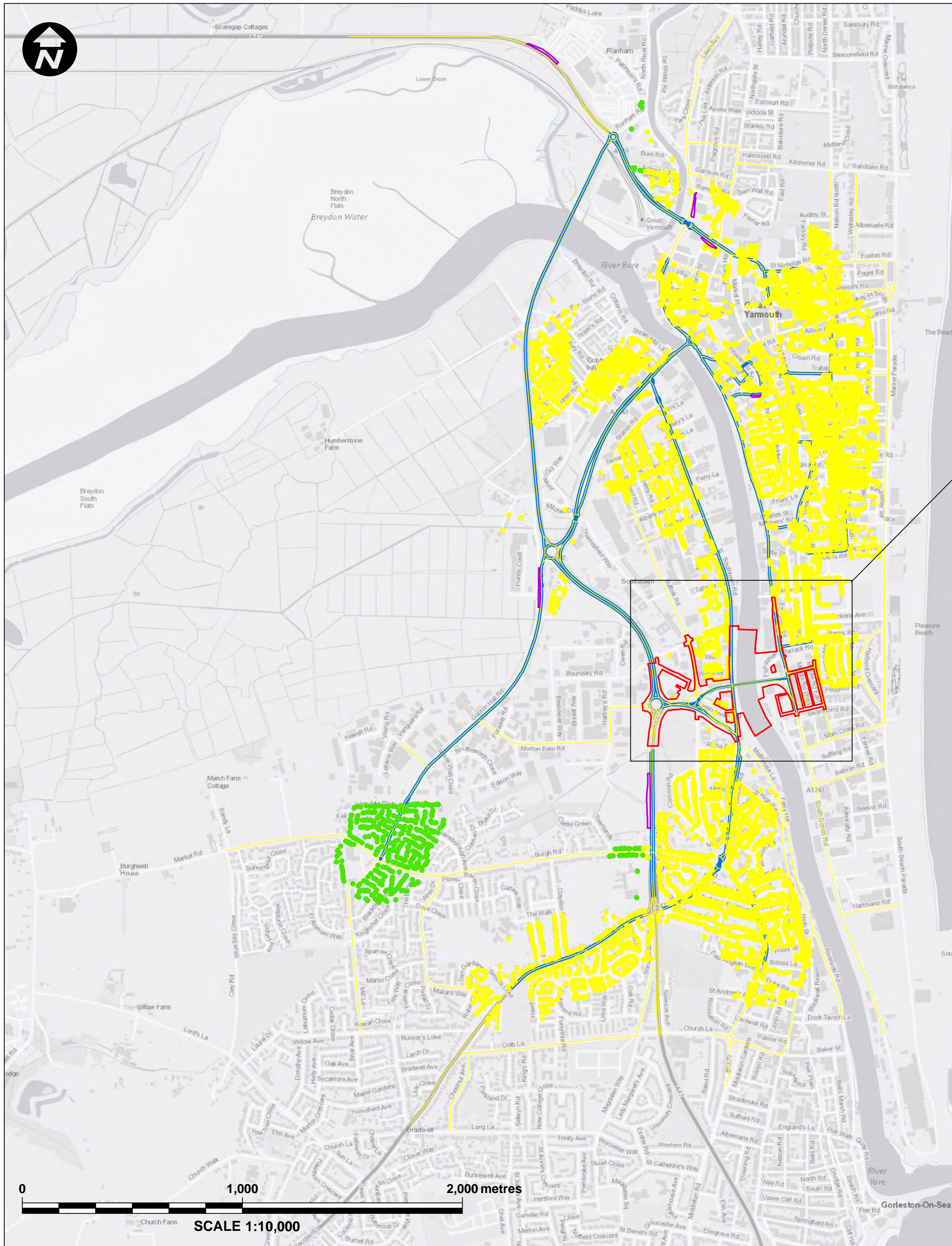
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 GYTRC-WSP-EGN-XX-DR-EN-2016

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Key:

- Principal Application Site
- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2017 Annual Mean PM_{2.5} Concentration (µg/m³)

- <5
- 5 to 10
- 10 to 15
- 15 to 25
- >25

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 Tom McCabe
 Executive Director of
 Community and Environmental Services
 Norfolk County Council
 County Hall, Martineau Lane
 Norwich NR1 2SG

PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

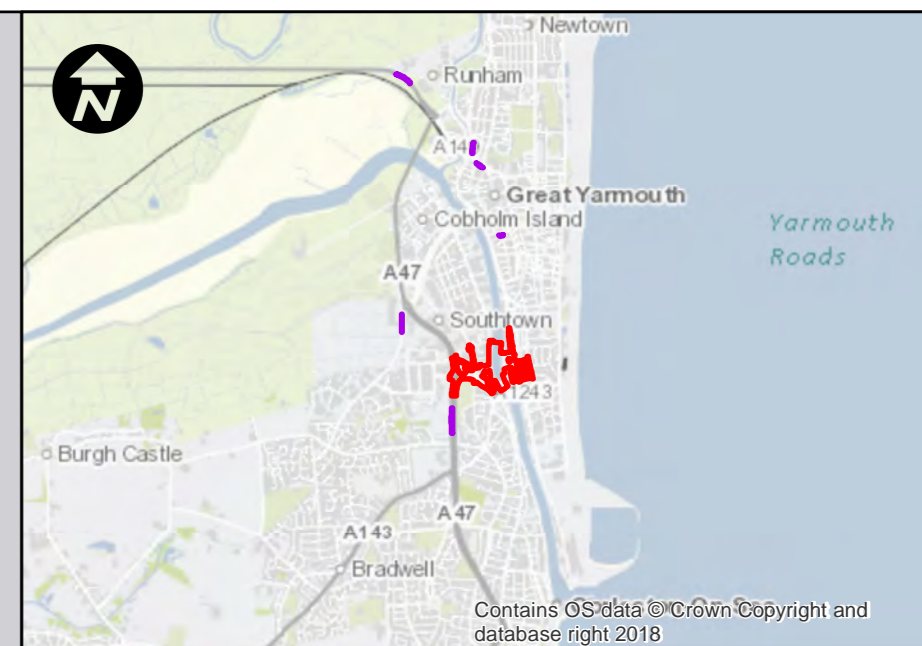
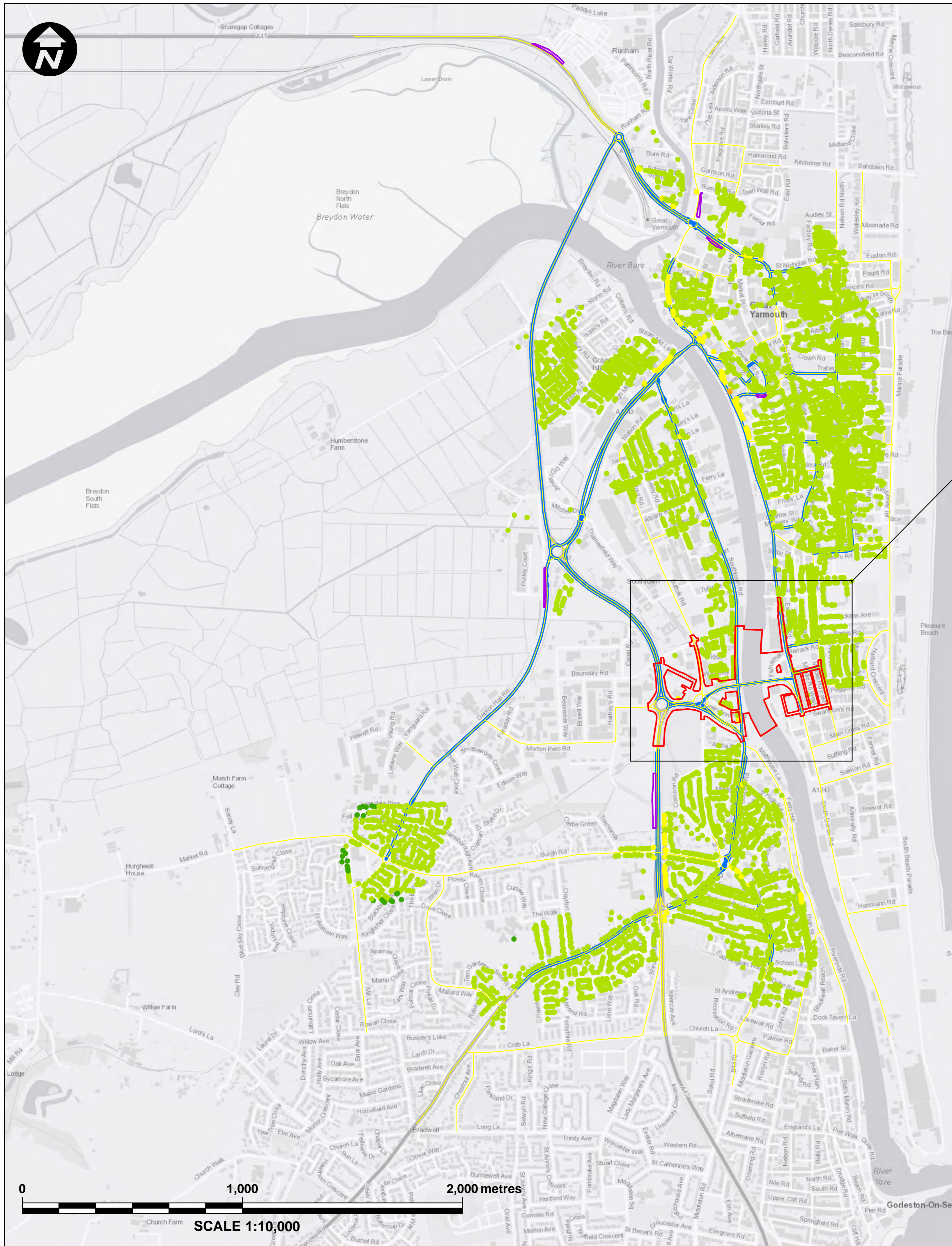
DRAWING TITLE
 FIGURE 6.7
 AIR QUALITY OPERATIONAL
 ASSESSMENT PM_{2.5} RESULTS 2017
 BASE YEAR SCENARIO
 (REGULATION 5(2)(a))

DRAWING STATUS
 FOR DCO APPLICATION

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Key:

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- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 DM Annual Mean NO₂ Concentration (µg/m³)

- <10
- 10 to 20
- 20 to 30
- 30 to 40
- >40

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 County Hall, Martineau Lane
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PROJECT TITLE

**GREAT YARMOUTH
THIRD RIVER CROSSING**

DRAWING TITLE

FIGURE 6.8
AIR QUALITY OPERATIONAL
ASSESSMENT NO2 RESULTS 2023
OPENING YEAR DO MINIMUM SCENARIO
(REGULATION 5(2)(a))

DRAWING STATUS

FOR DCO APPLICATION

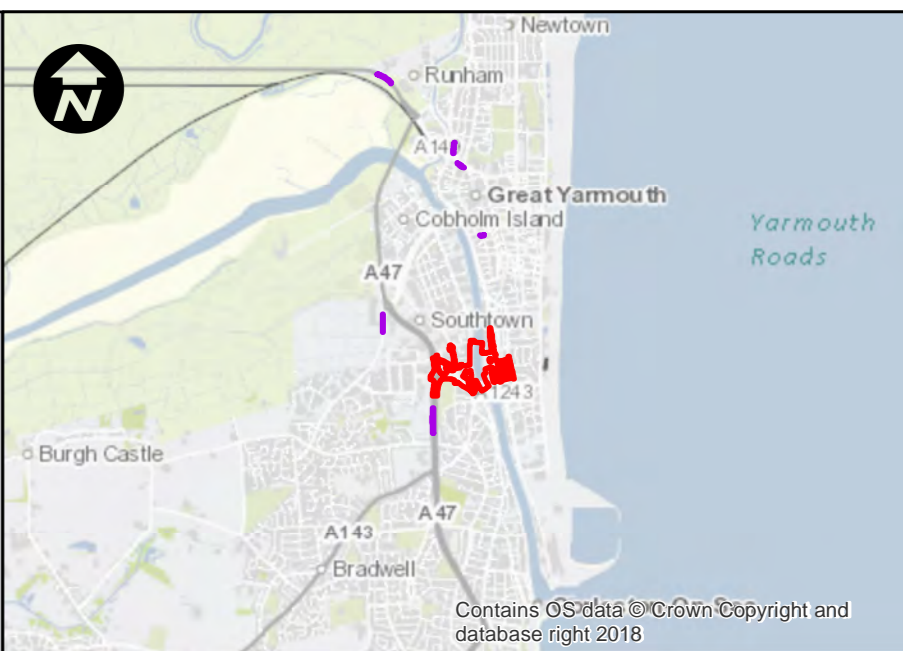
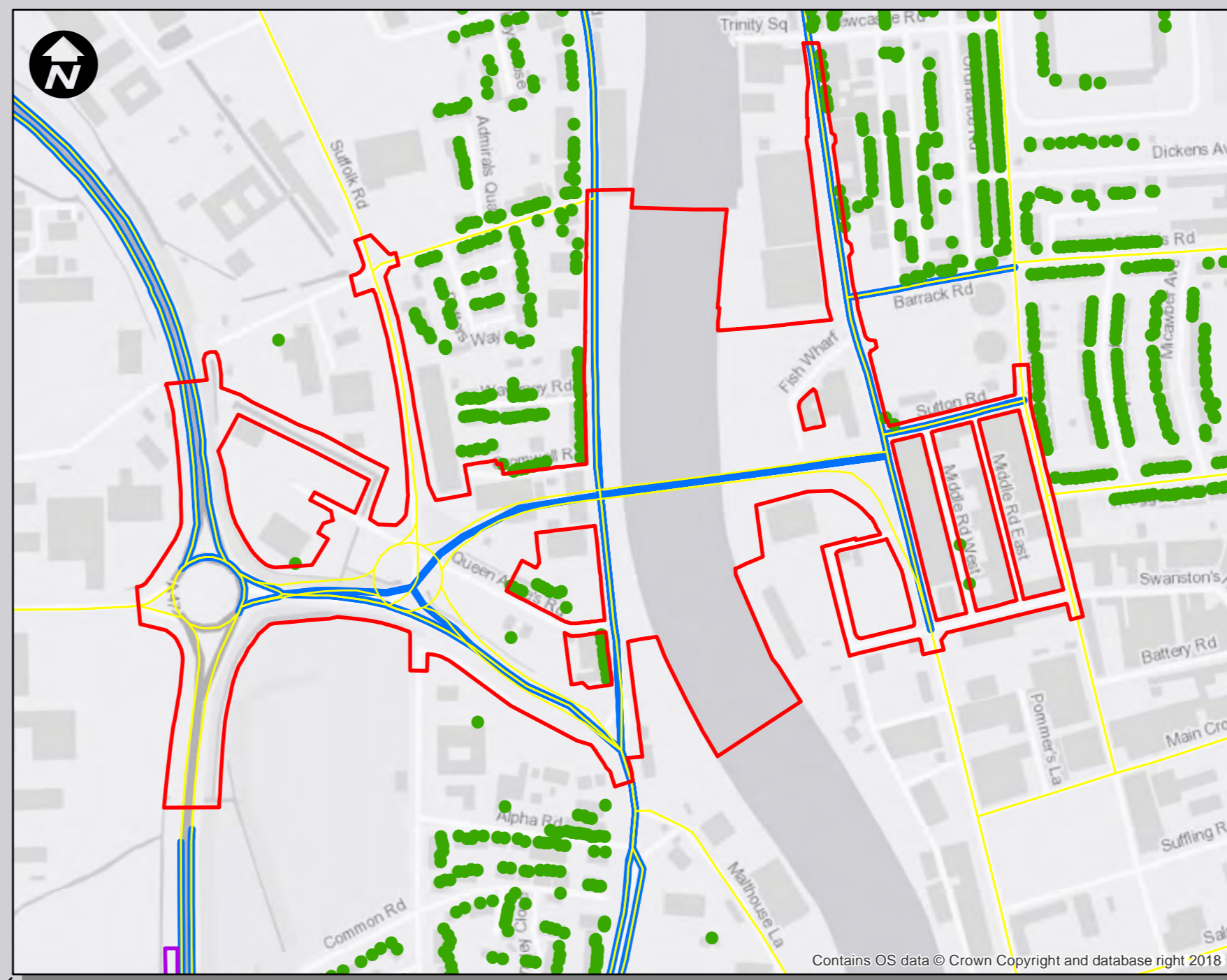
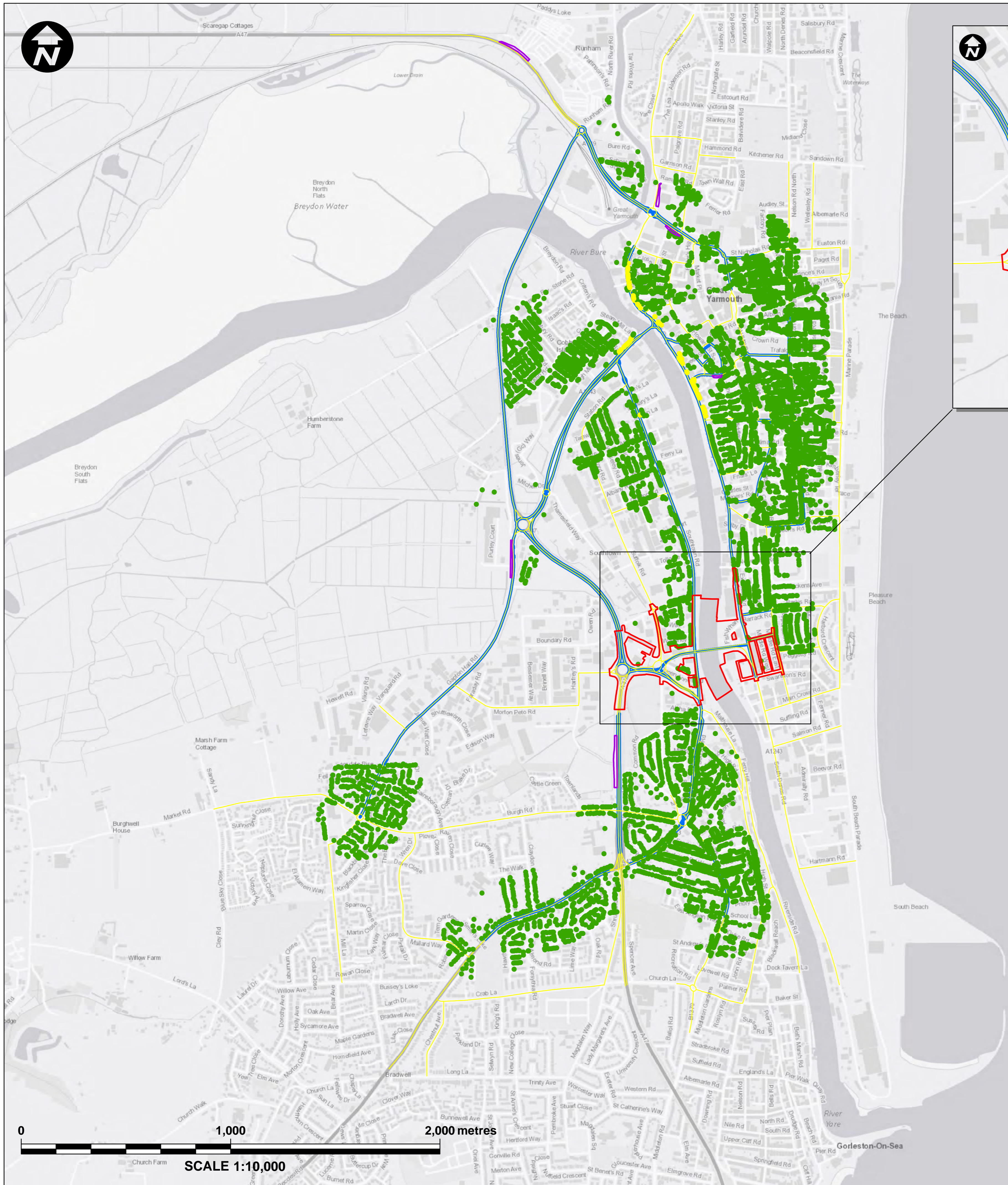
DRAWN	CHECKED	APPROVED	AUTHORISED
SR	CL	HH	MK

SCALE @ A1 SIZE	DATE	REVISION
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GYTRC-WSP-EGN-XX-DR-EN-2018

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Key:

- Principal Application Site
- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 DM Annual Mean PM₁₀ Concentration (µg/m³)

- <10
- 10 to 20
- 20 to 30
- 30 to 40
- >40

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.9
 AIR QUALITY OPERATIONAL
 ASSESSMENT PM10 RESULTS 2023
 OPENING YEAR DO MINIMUM SCENARIO
 (REGULATION 5(2)(a))

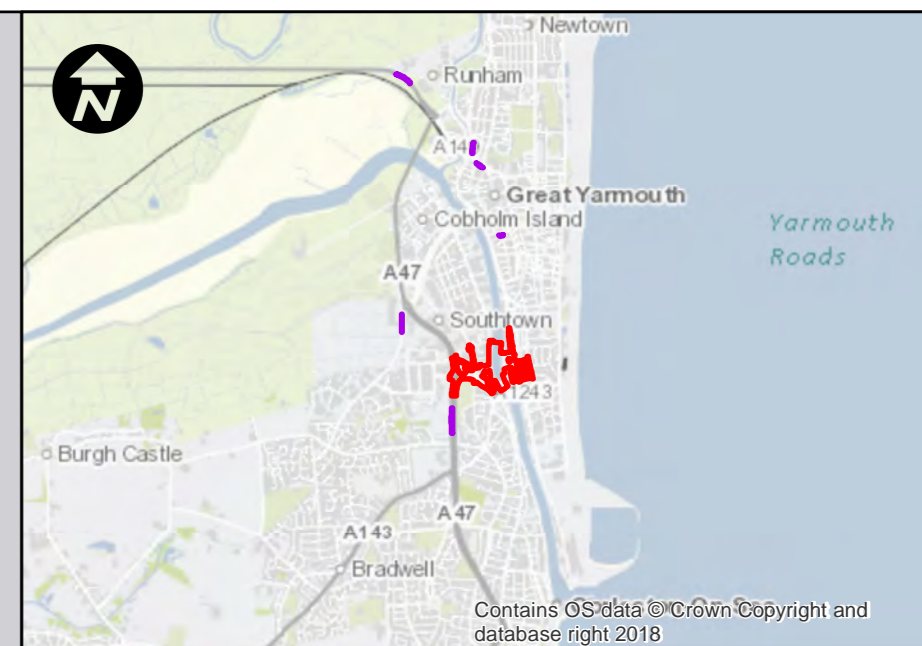
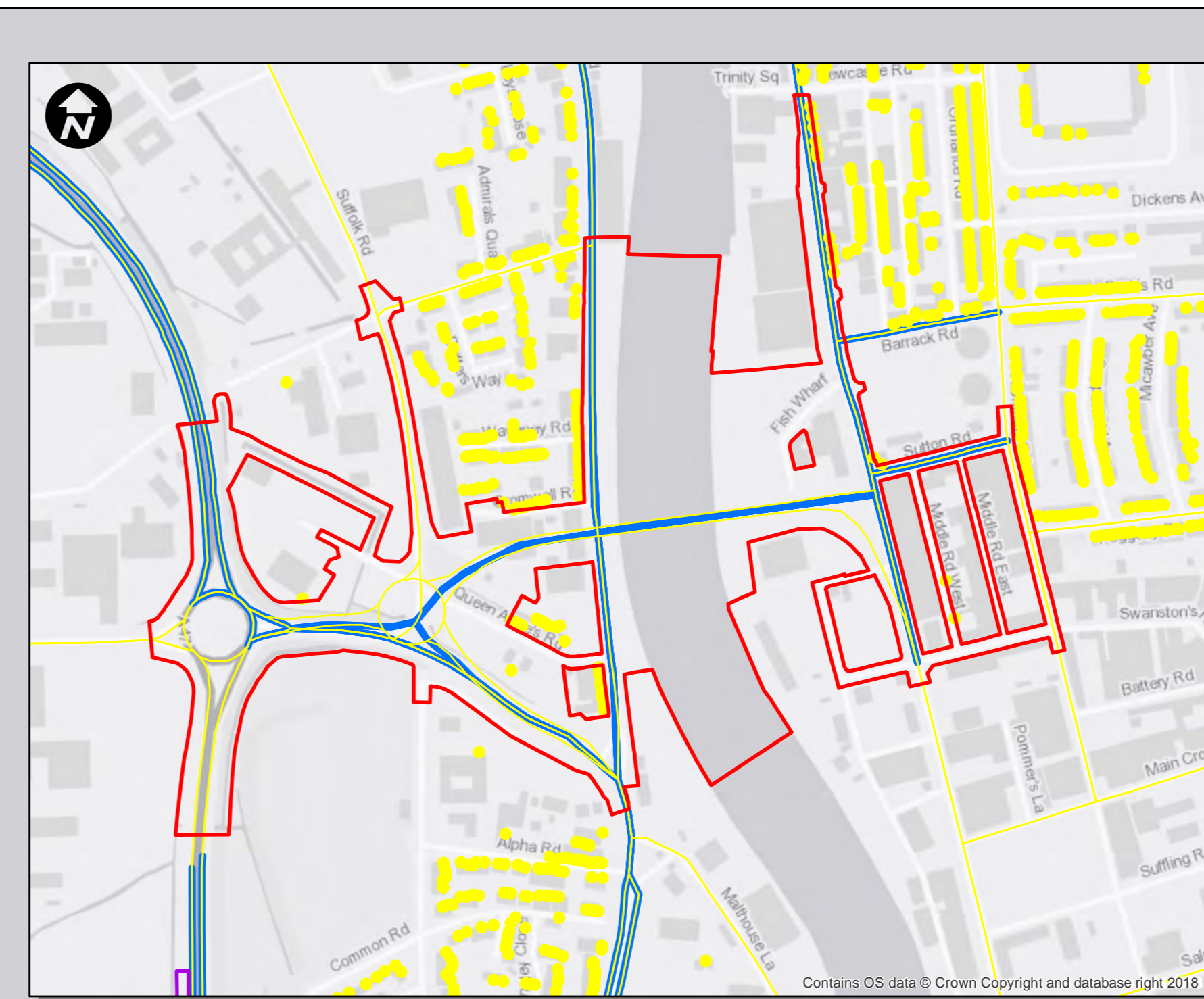
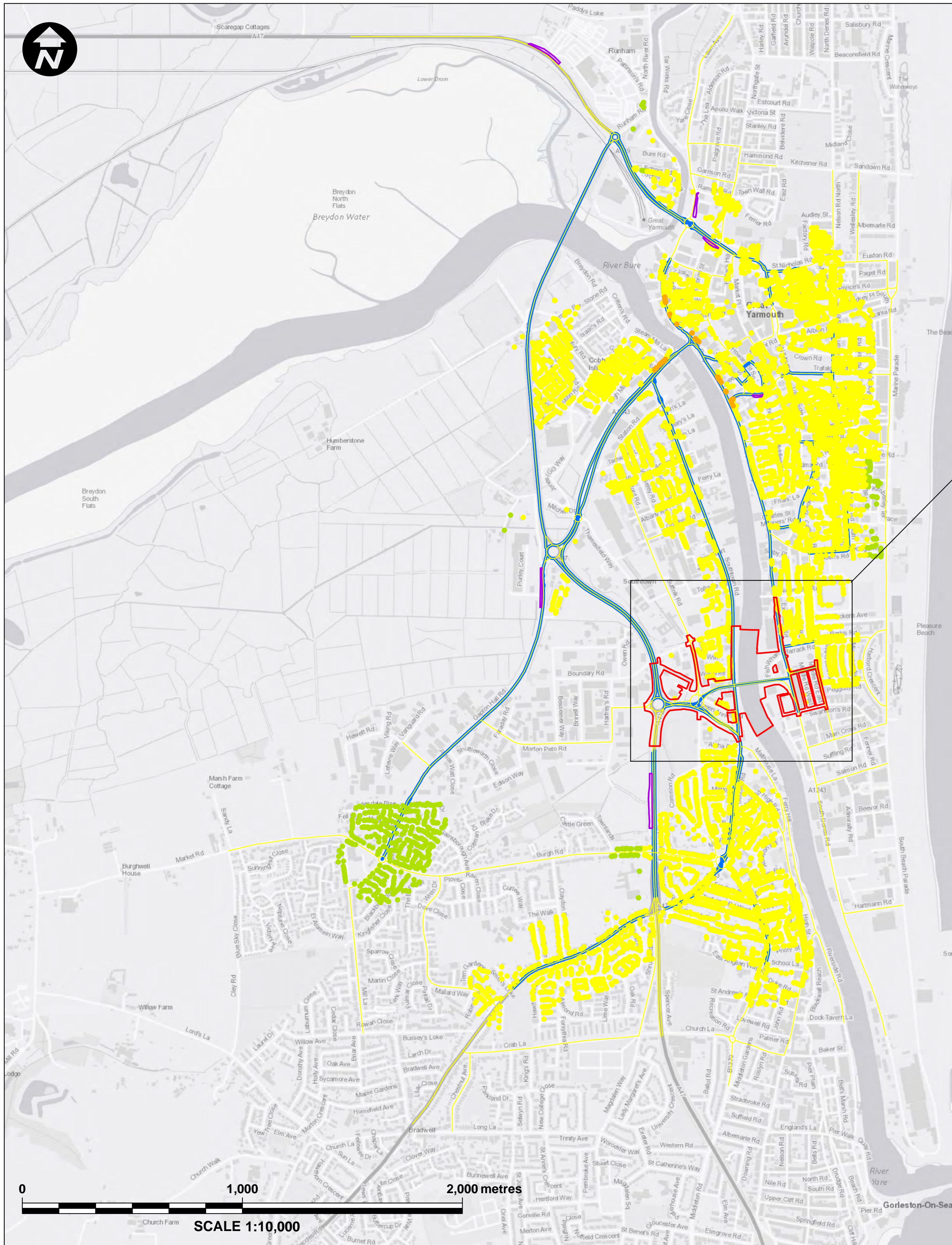
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SR	CL	HH	MK

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Key:

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- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 DM Annual Mean PM_{2.5} Concentration (µg/m³)

- <5
- 5 to 10
- 10 to 15
- 15 to 25
- >25

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
 FIGURE 6.10
 AIR QUALITY OPERATIONAL
 ASSESSMENT PM_{2.5} RESULTS 2023
 OPENING YEAR DO MINIMUM SCENARIO
 (REGULATION 5(2)(a))

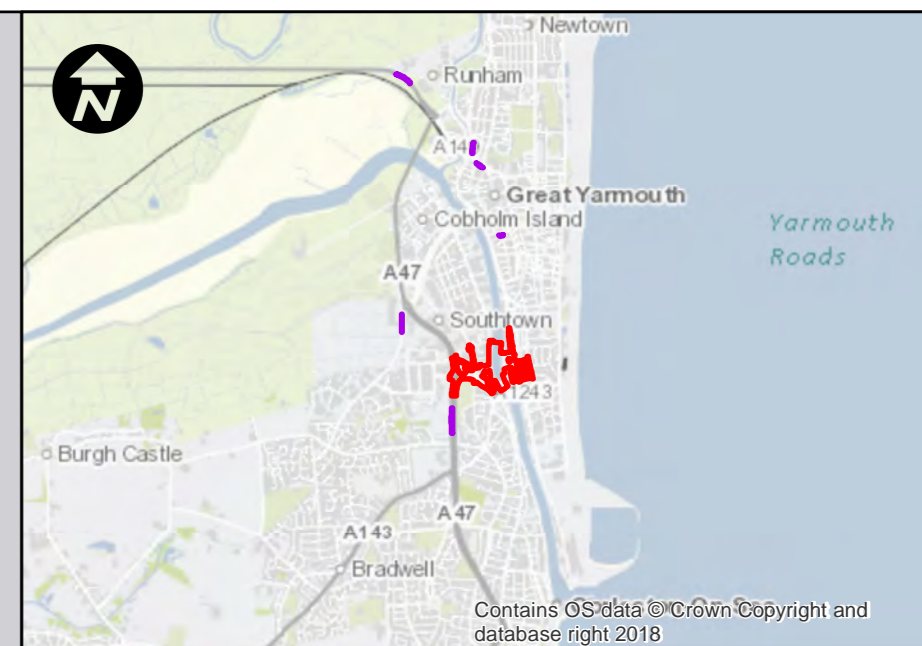
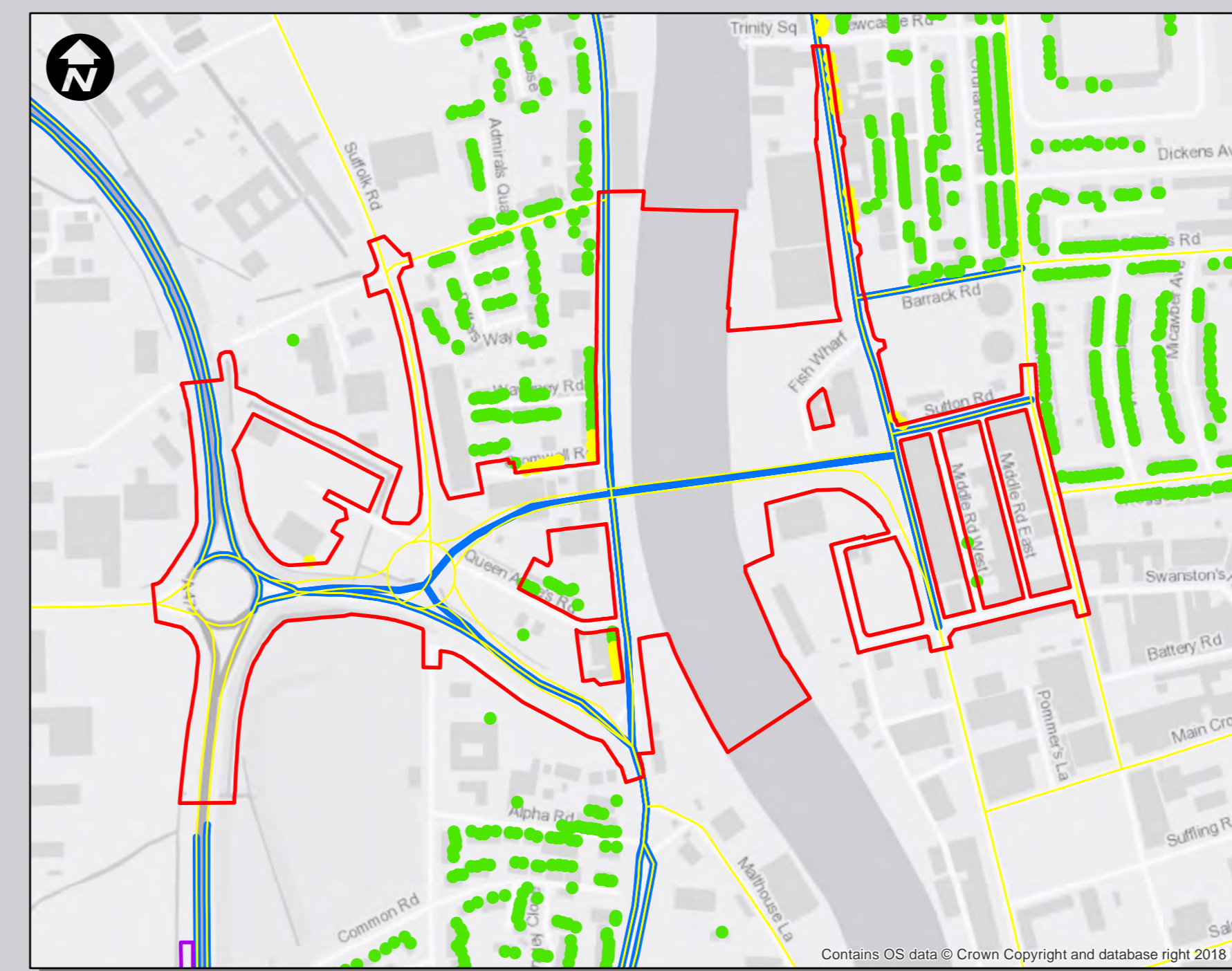
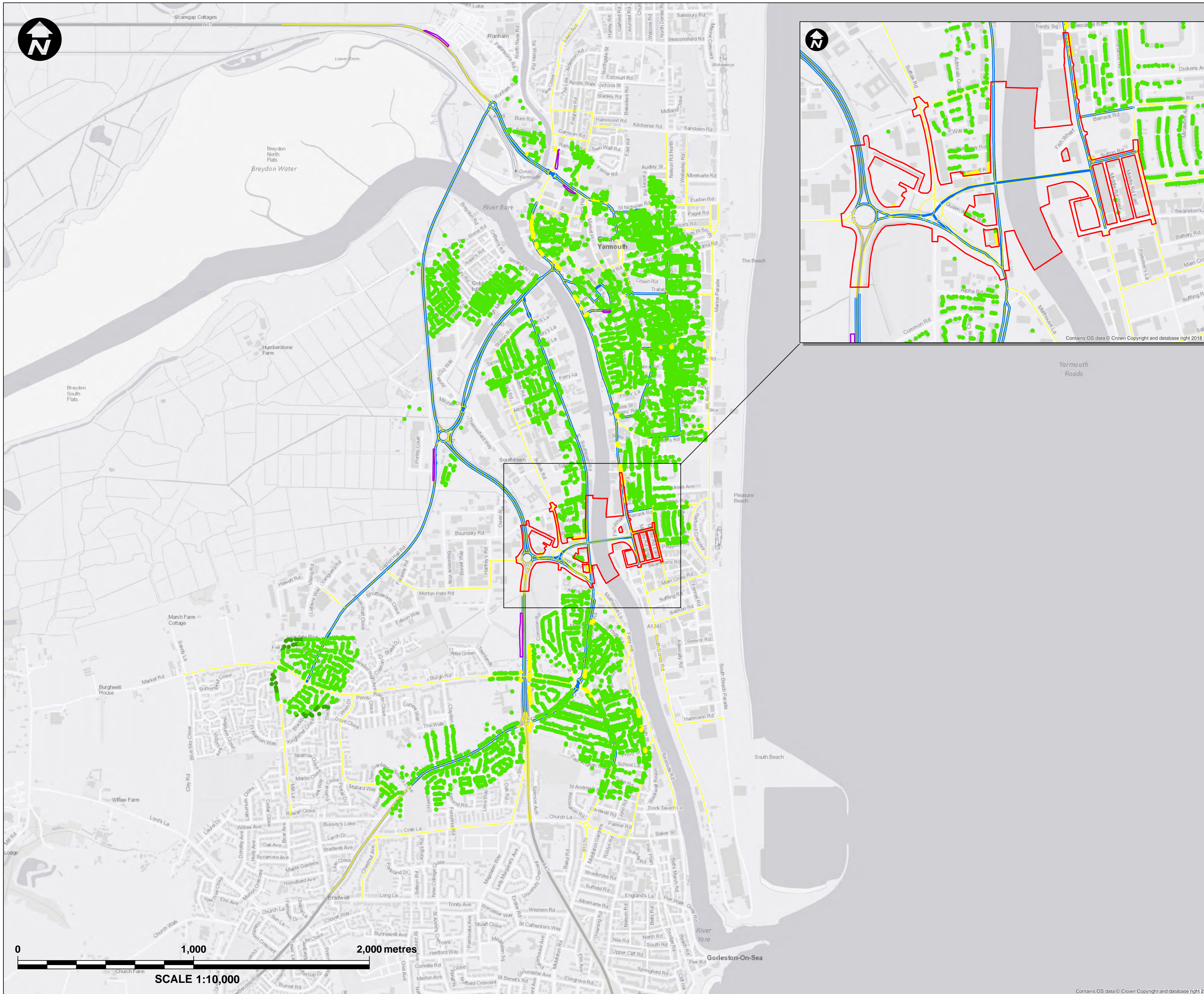
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Key:

- Principal Application Site
- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 DS Annual Mean NO₂ Concentration (µg/m³)

- <10
- 10 to 20
- 20 to 30
- 30 to 40
- >40

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.11
 AIR QUALITY OPERATIONAL ASSESSMENT
 NO₂ RESULTS 2023 OPENING YEAR DO
 SOMETHING SCENARIO
 (REGULATION 5(2)(a))

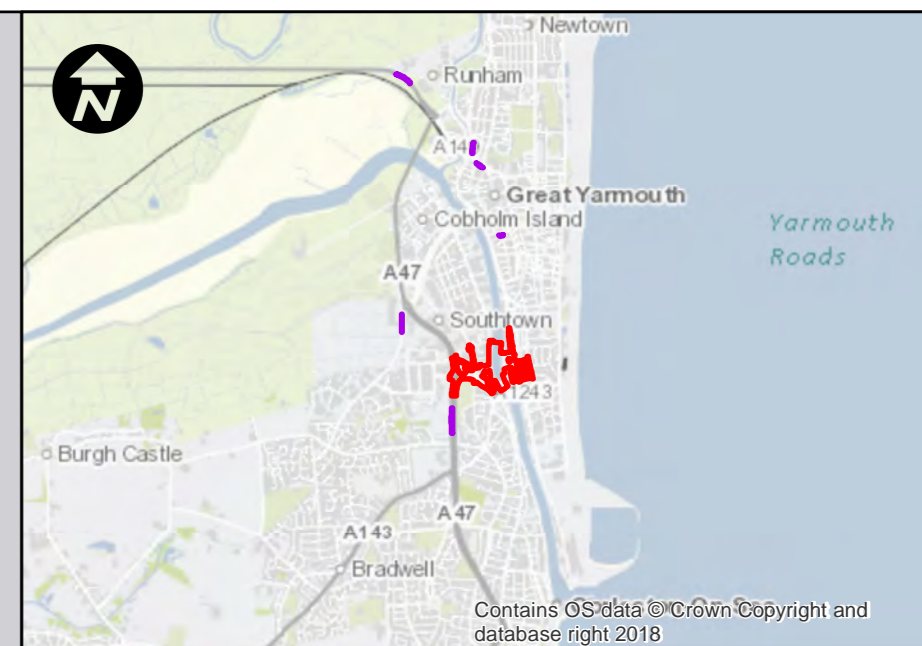
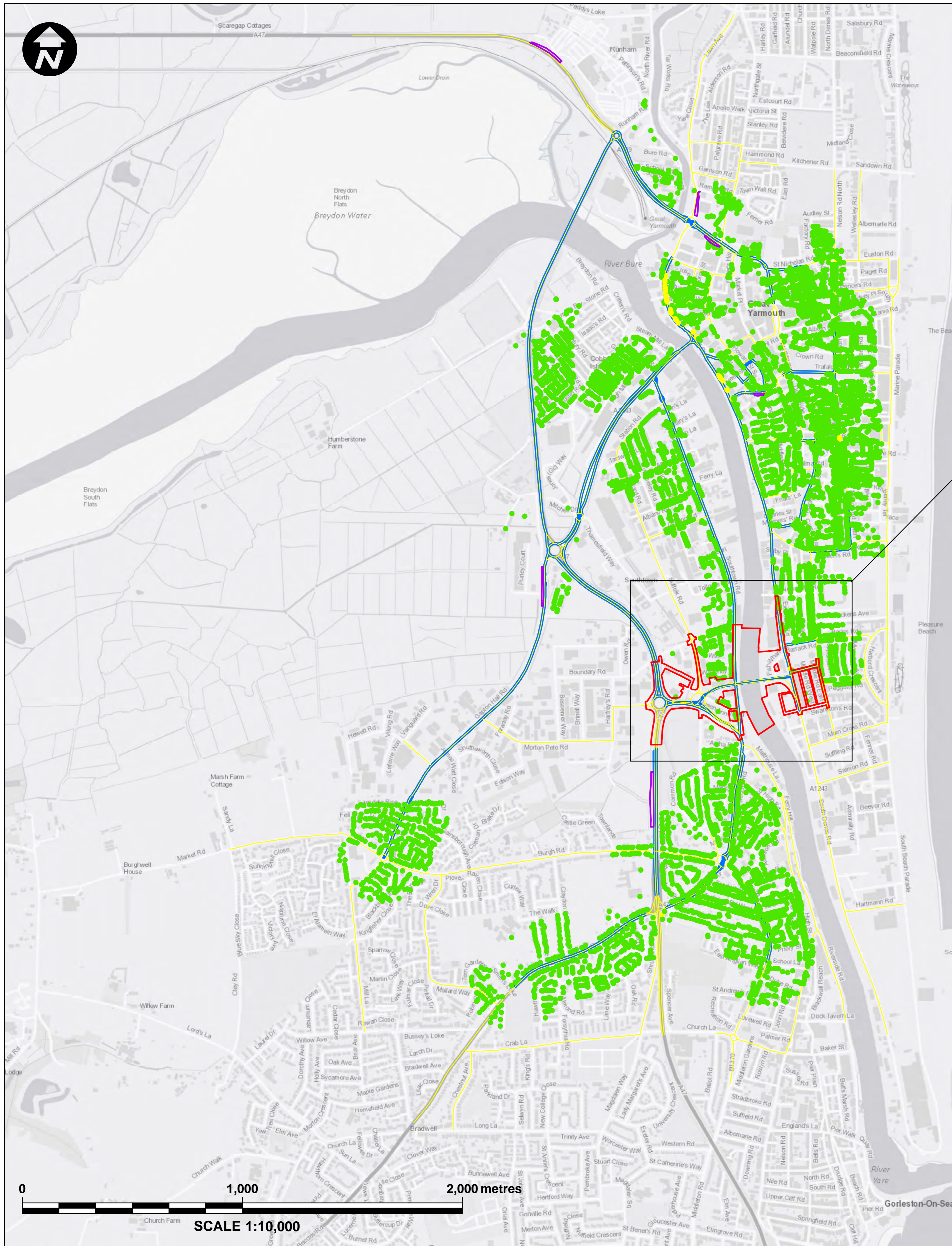
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SR	CL	HH	MK

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Key:

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- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 DS Annual Mean PM₁₀ Concentration (µg/m³)

- <math><10</math>
- 10 to 20
- 20 to 30
- 30 to 40
- >40

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.12
 AIR QUALITY OPERATIONAL ASSESSMENT
 PM10 RESULTS 2023 OPENING YEAR DO
 SOMETHING SCENARIO
 (REGULATION 5(2)(a))

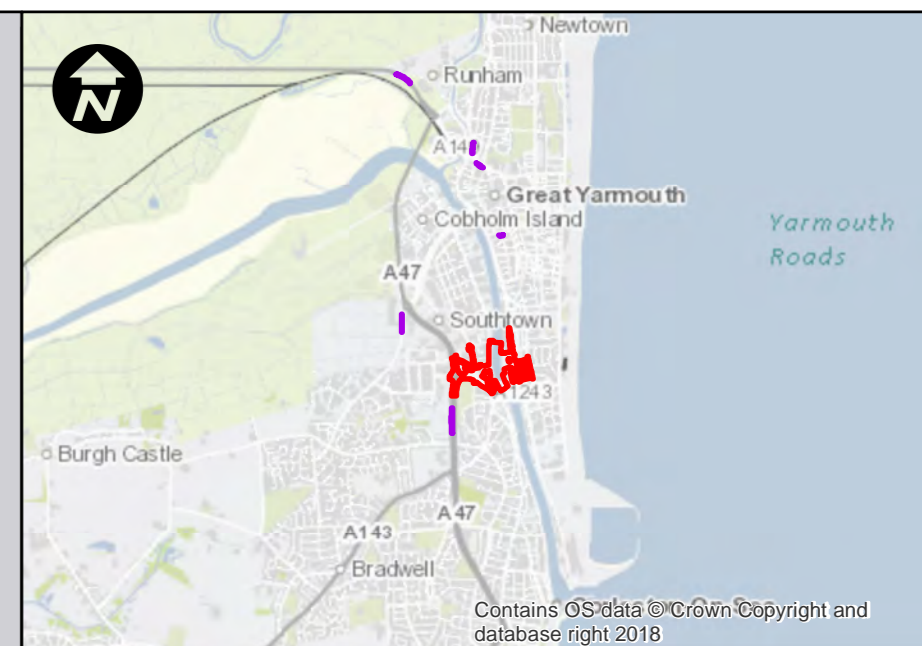
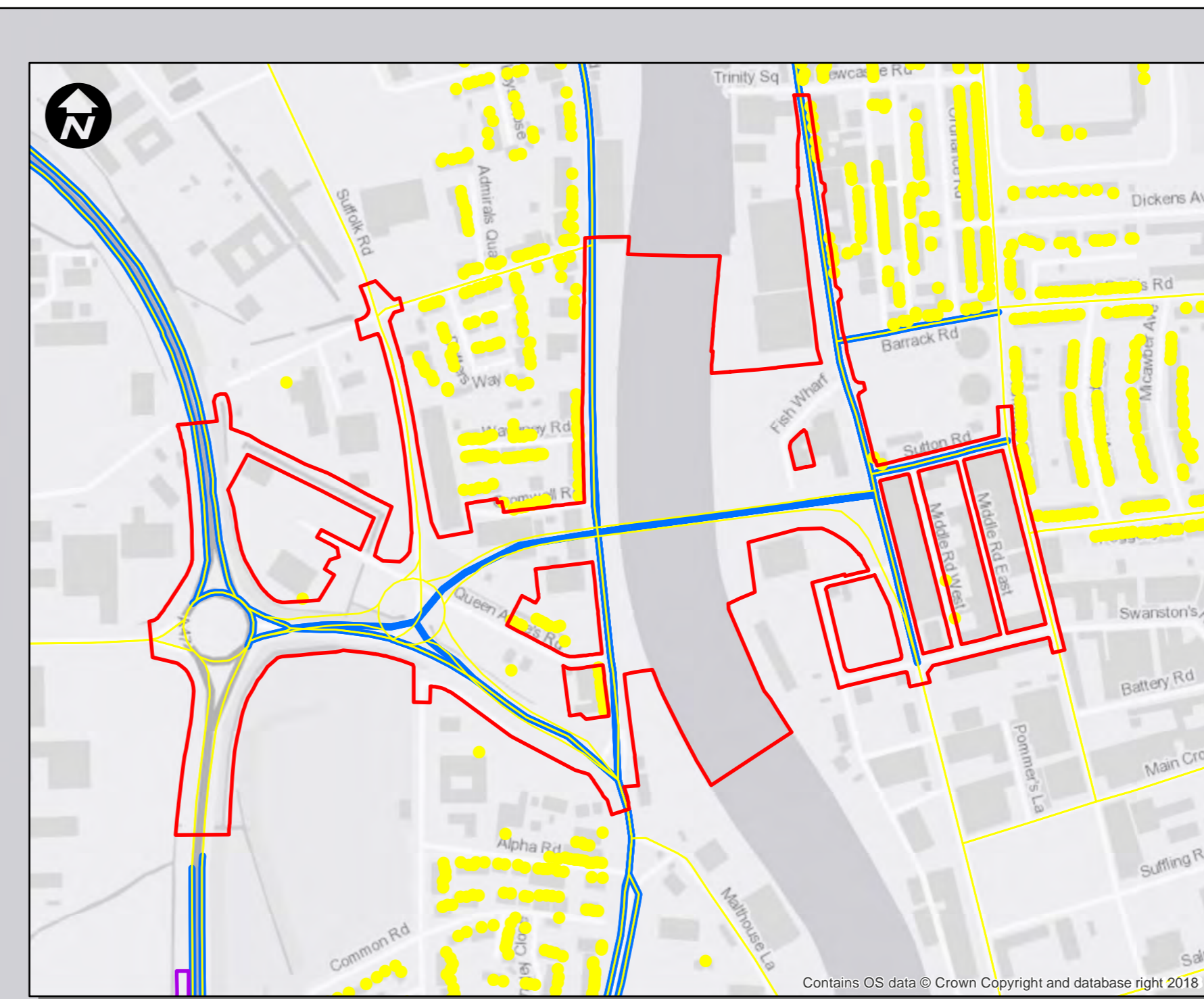
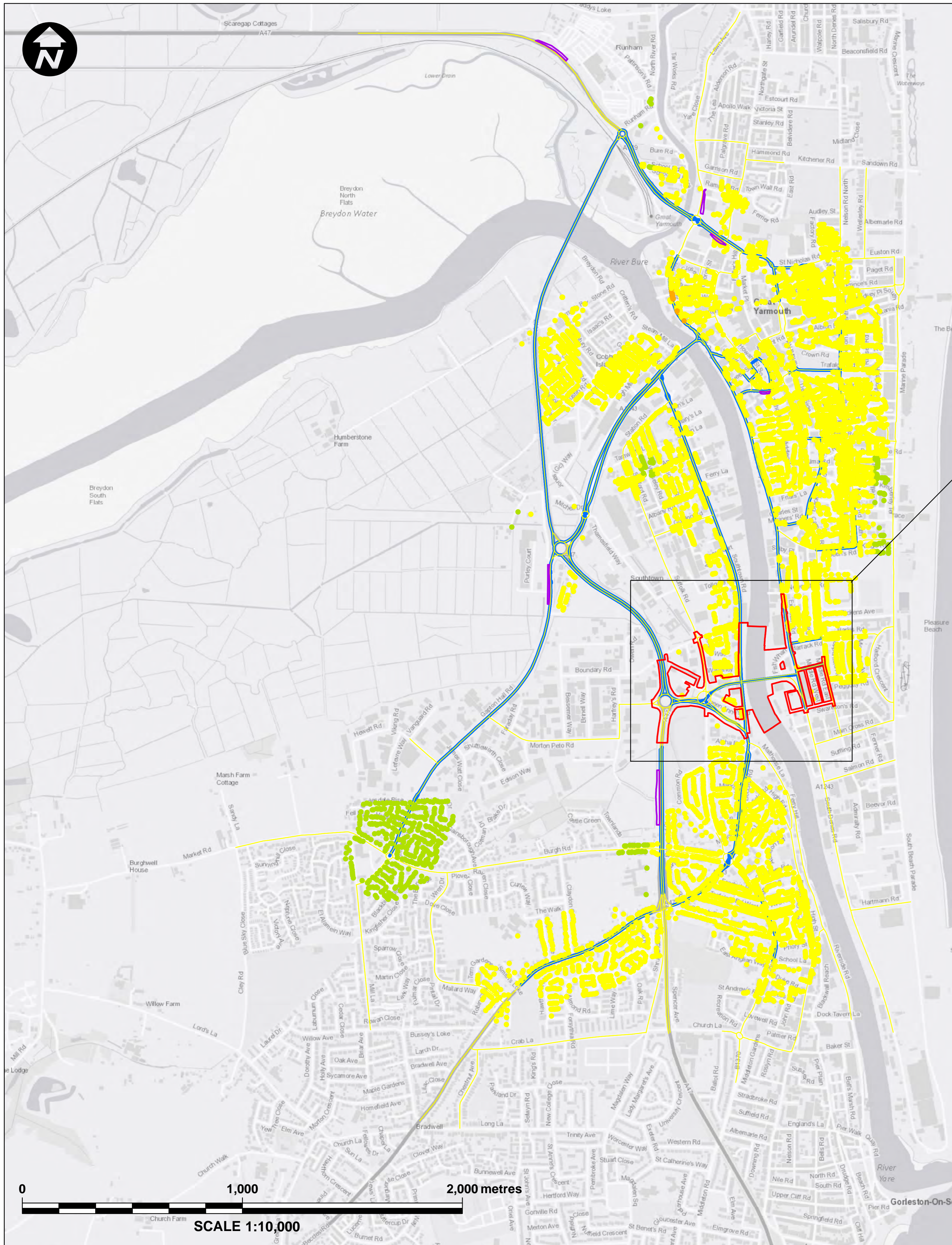
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SR	CL	HH	MK

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Key:

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- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 DS Annual Mean PM_{2.5} Concentration (µg/m³)

- <5
- 5 to 10
- 10 to 15
- 15 to 25
- >25

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.13
 AIR QUALITY OPERATIONAL ASSESSMENT
 PM2.5 RESULTS 2023 OPENING YEAR DO
 SOMETHING SCENARIO
 (REGULATION 5(2)(a))

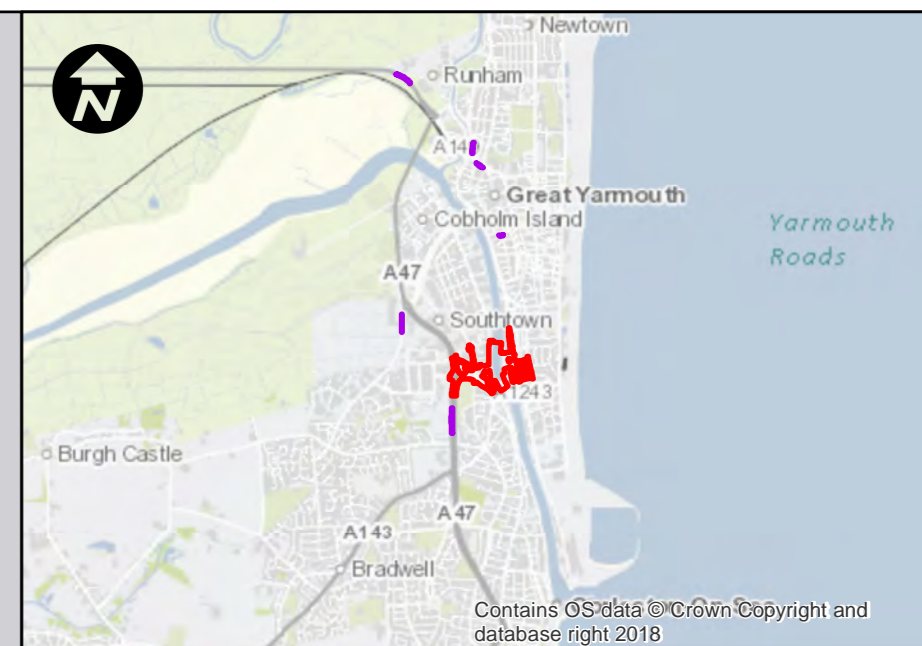
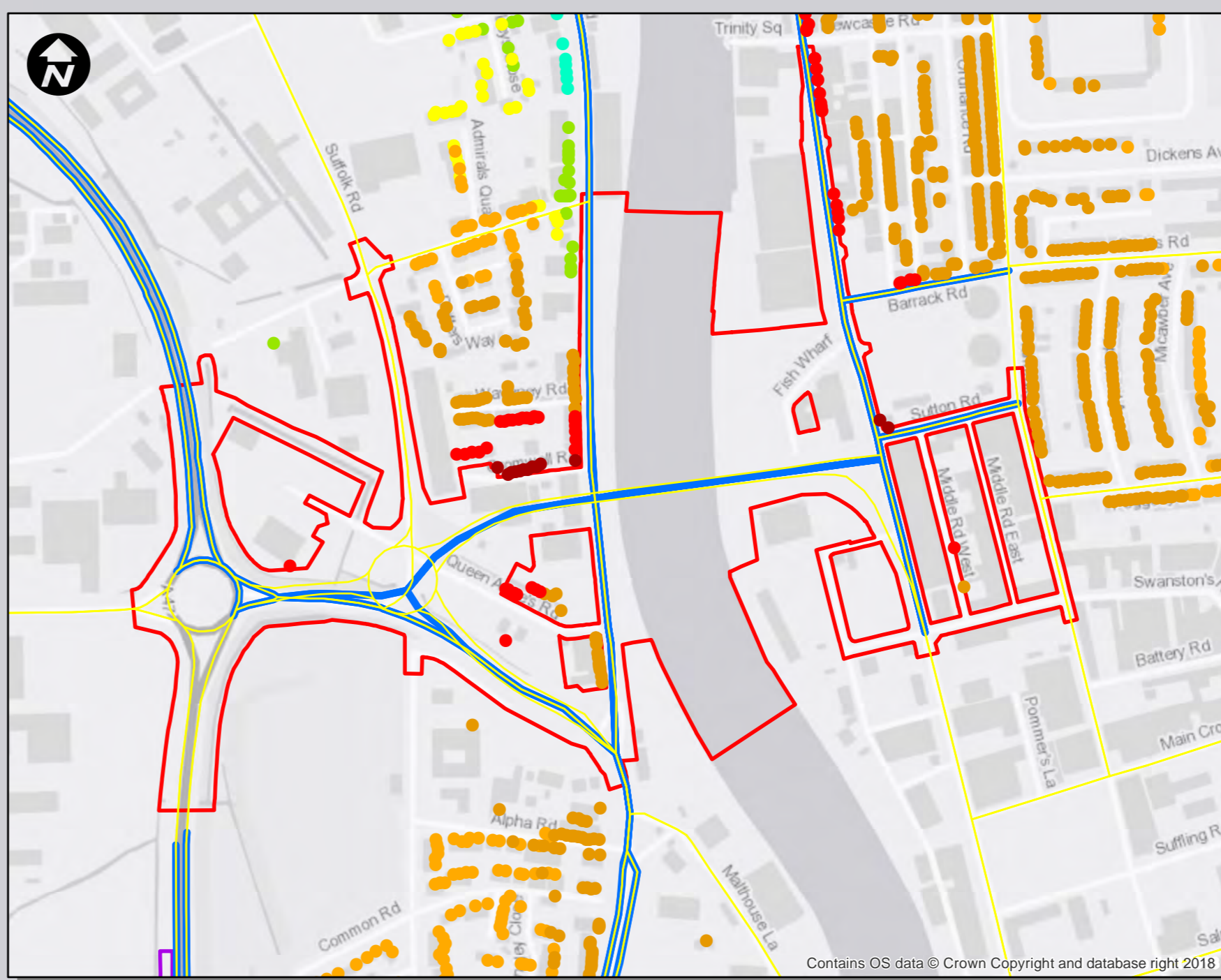
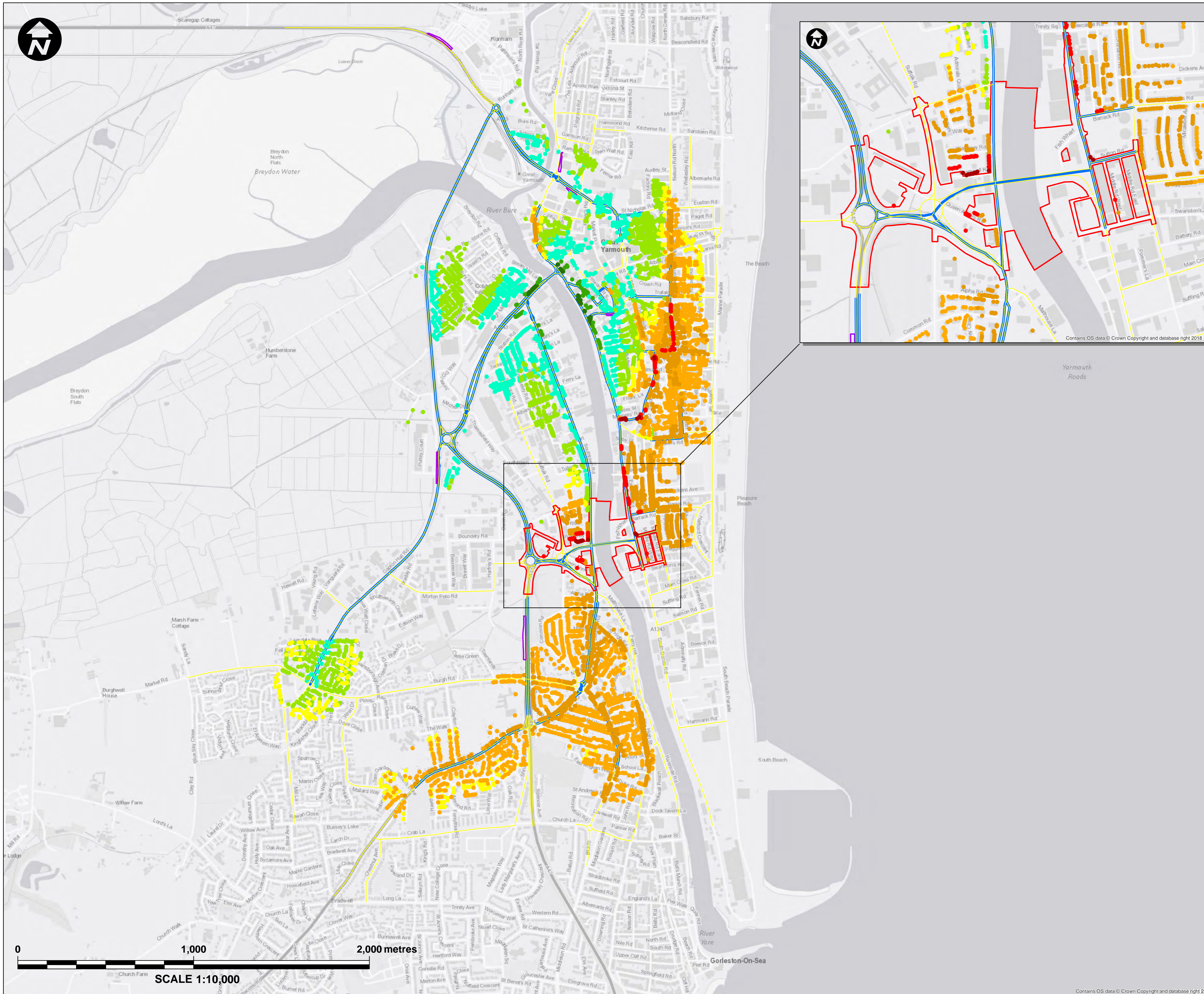
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Key:

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- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 Change in Annual Mean NO₂ Concentration DS-DM (µg/m³)

- <-4
- -2 to -4
- -0.4 to -2
- 0 to -0.4
- 0
- 0 to 0.4
- 0.4 to 2
- 2 to 4
- >4

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.14
 AIR QUALITY OPERATIONAL ASSESSMENT
 NO₂ RESULTS CHANGE BETWEEN THE
 DO MINIMUM AND DO SOMETHING SCENARIO
 2023 OPENING YEAR
 (REGULATION 5(2)(a))

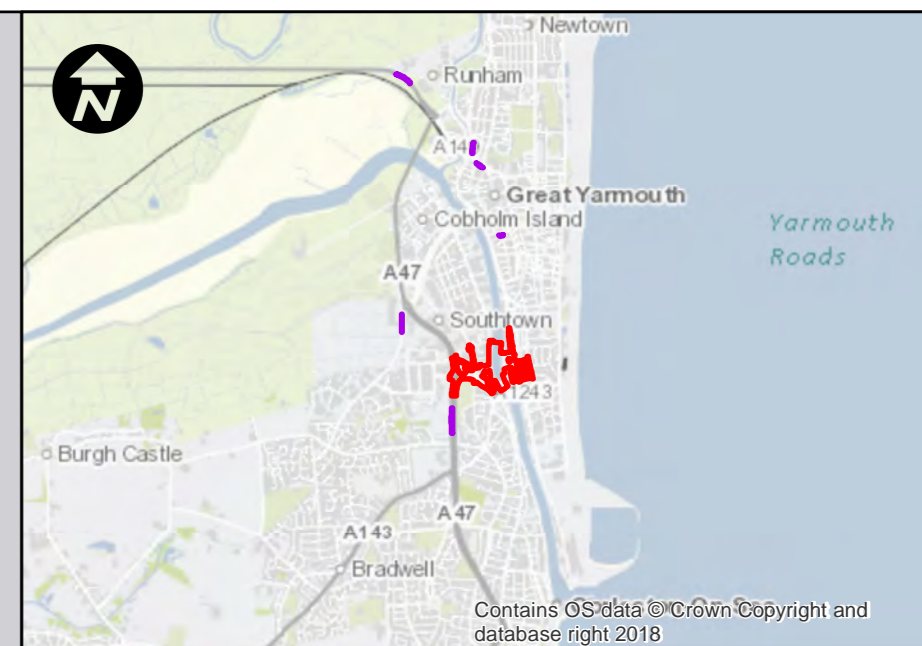
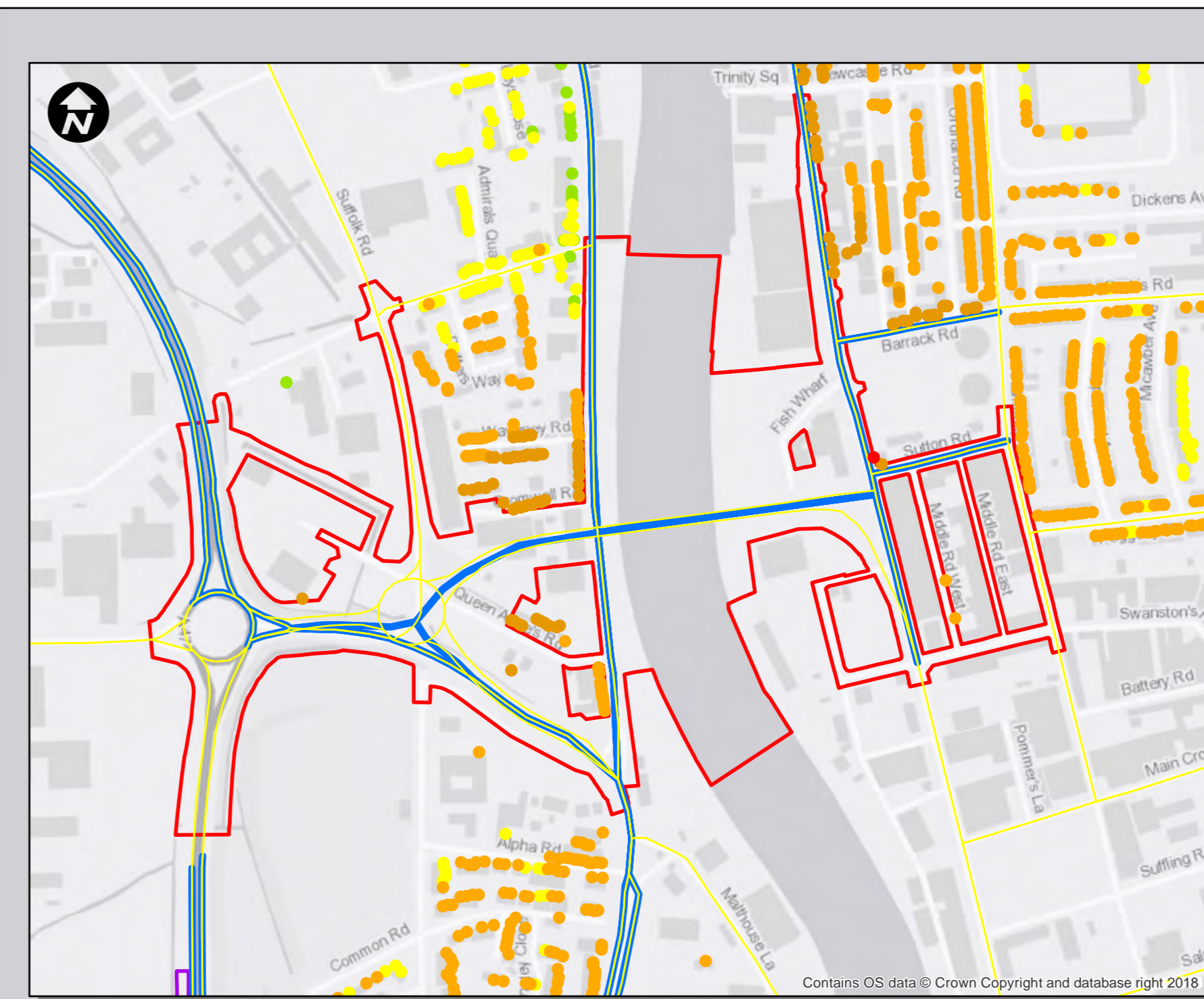
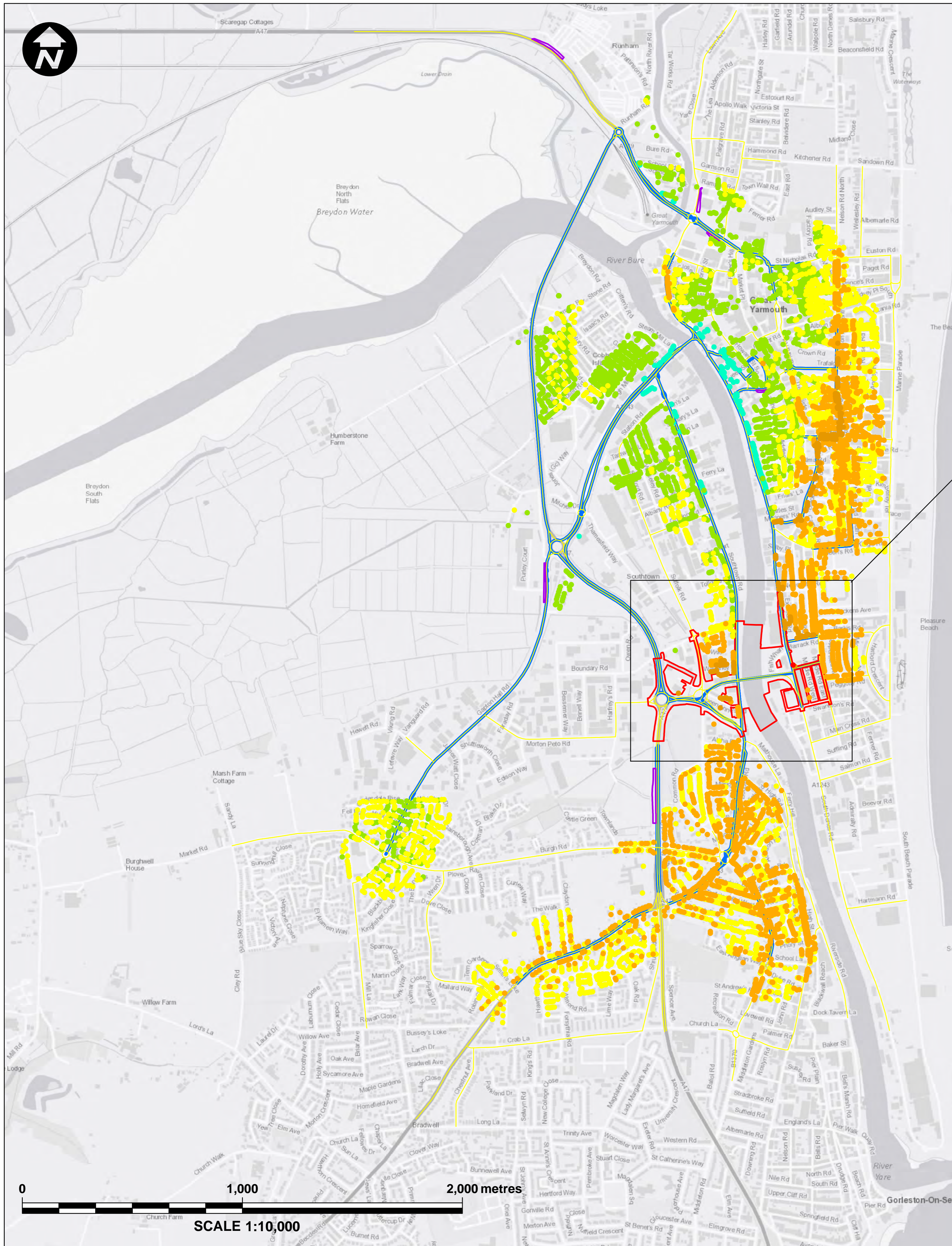
DRAWING STATUS
 FOR DCO APPLICATION

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SR	CL	HH	MK

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Key:

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- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 Change in Annual Mean PM₁₀ Concentration DS-DM (µg/m³)

- <-4
- -2 to -4
- -0.4 to -2
- 0 to -0.4
- 0
- 0 to 0.4
- 0.4 to 2
- 2 to 4
- >4

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.15
 AIR QUALITY OPERATIONAL ASSESSMENT
 PM₁₀ RESULTS CHANGE BETWEEN THE DO
 MINIMUM AND DO SOMETHING SCENARIO
 2023 OPENING YEAR
 (REGULATION 5(2)(a))

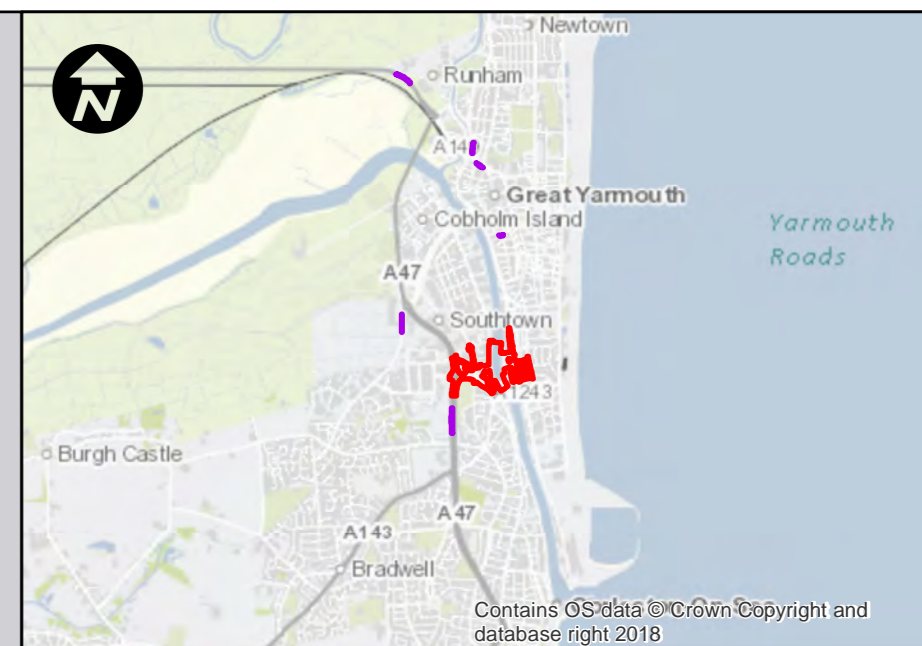
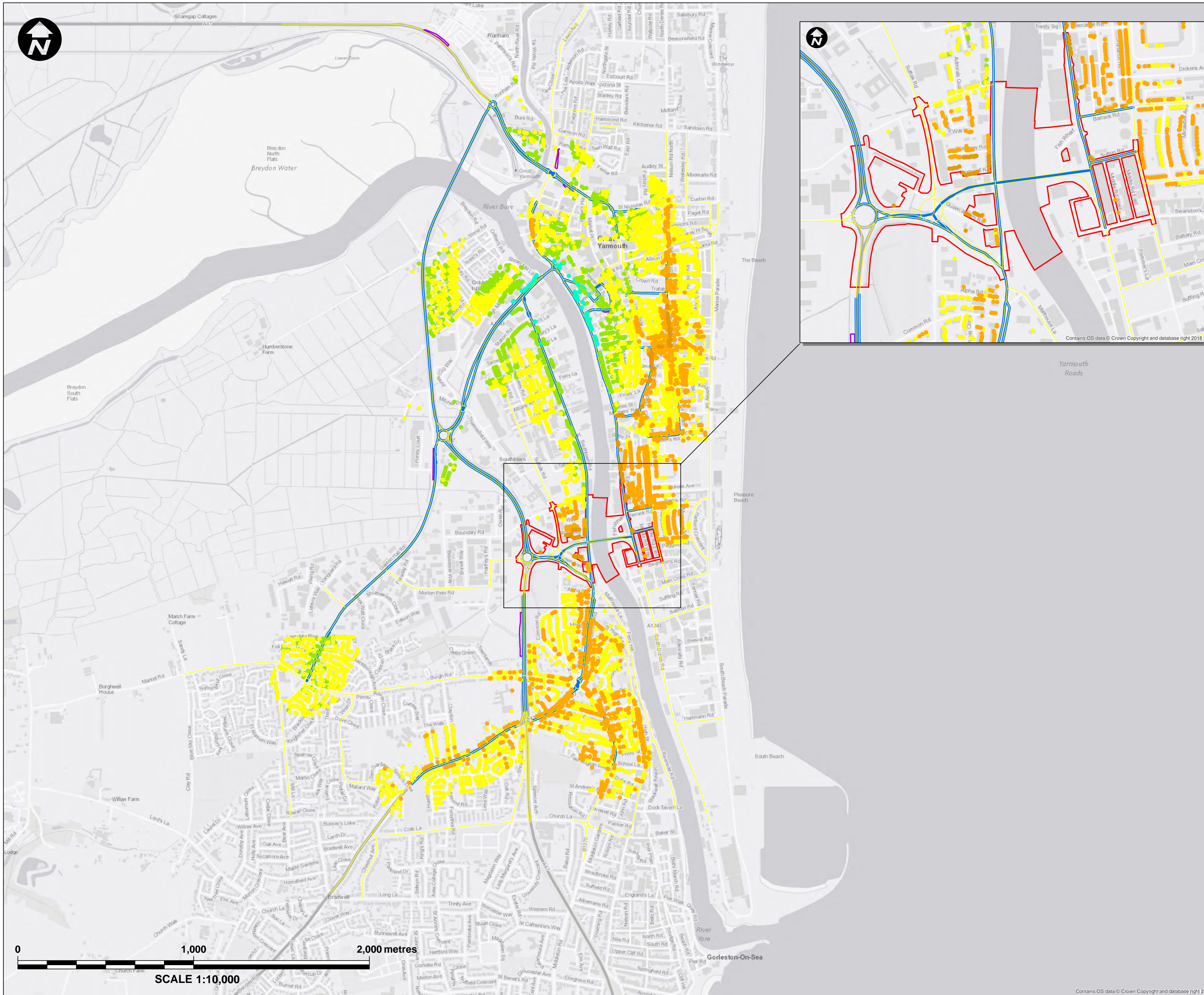
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SR	CL	HH	MK

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Key:

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- Satellite Application Sites
- Local Model Road Network (LMRN)
- Local Affected Road Network (LARN)

2023 Change in Annual Mean PM_{2.5} Concentrations DS-DM (µg/m³)

- < - 2.5
- -2.5 to -1.25
- -1.25 to -0.25
- -0.25 to 0
- 0
- 0 to 0.25
- 0.25 to 1.25
- 1.25 to 2.5
- > 2.5

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE FIGURE 6.16
 AIR QUALITY OPERATIONAL ASSESSMENT
 PM_{2.5} RESULTS CHANGE BETWEEN THE DO
 MINIMUM AND DO SOMETHING SCENARIO
 2023 OPENING YEAR
 (REGULATION 5(2)(a))

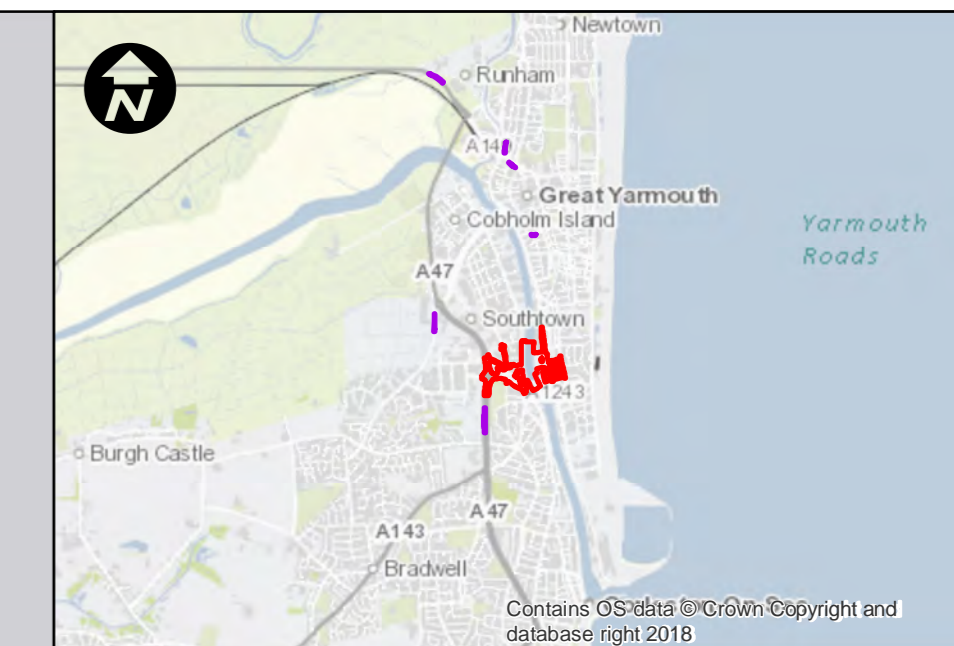
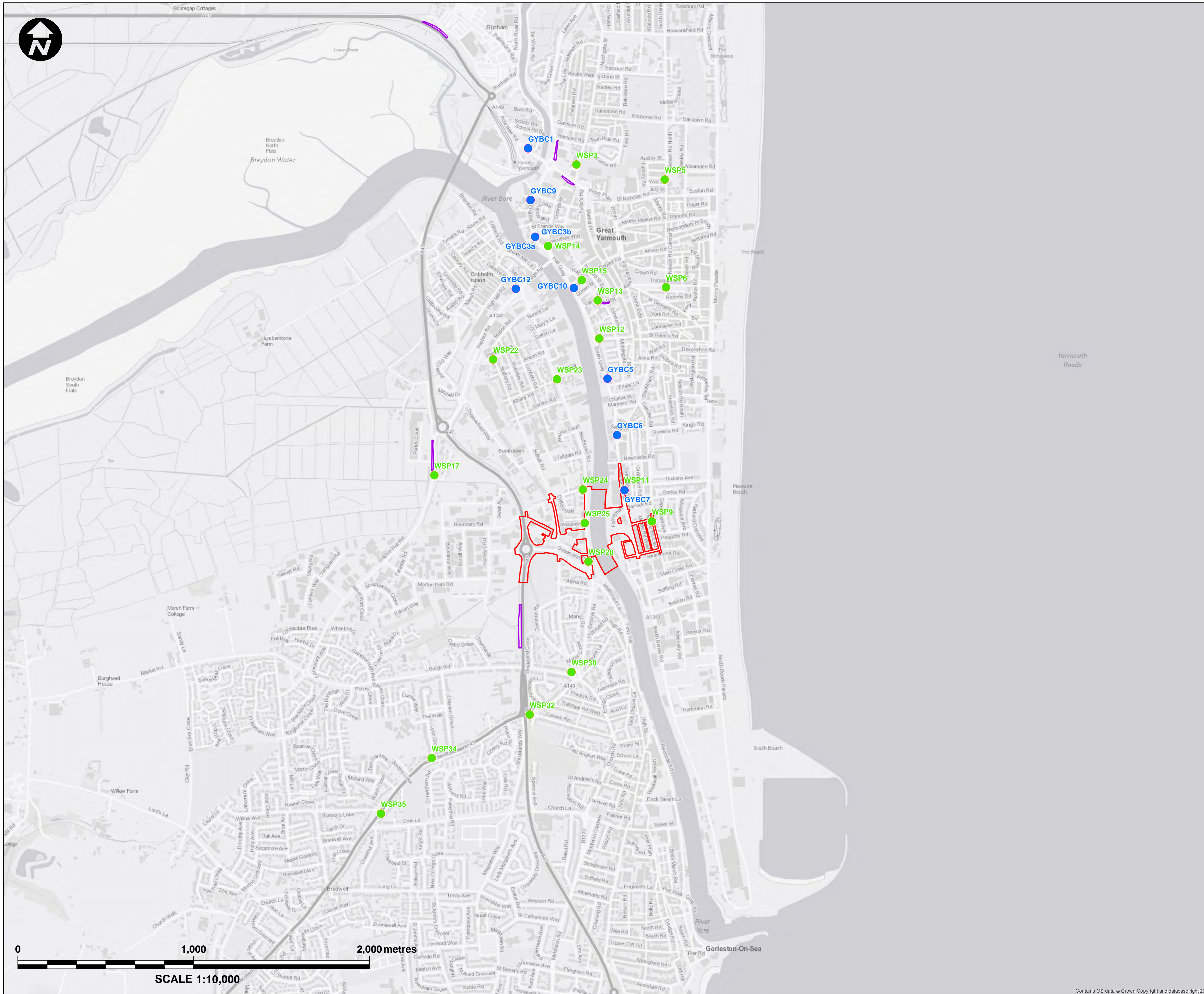
DRAWING STATUS
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SCALE @ A1 SIZE 1:10,000 DATE 29/03/2019 REVISION P00

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Key:

- Principal Application Site
- Satellite Application Sites

Diffusion Tube NO₂ Monitoring used in Local Assessment Model Verification

- GYBC
- WSP

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

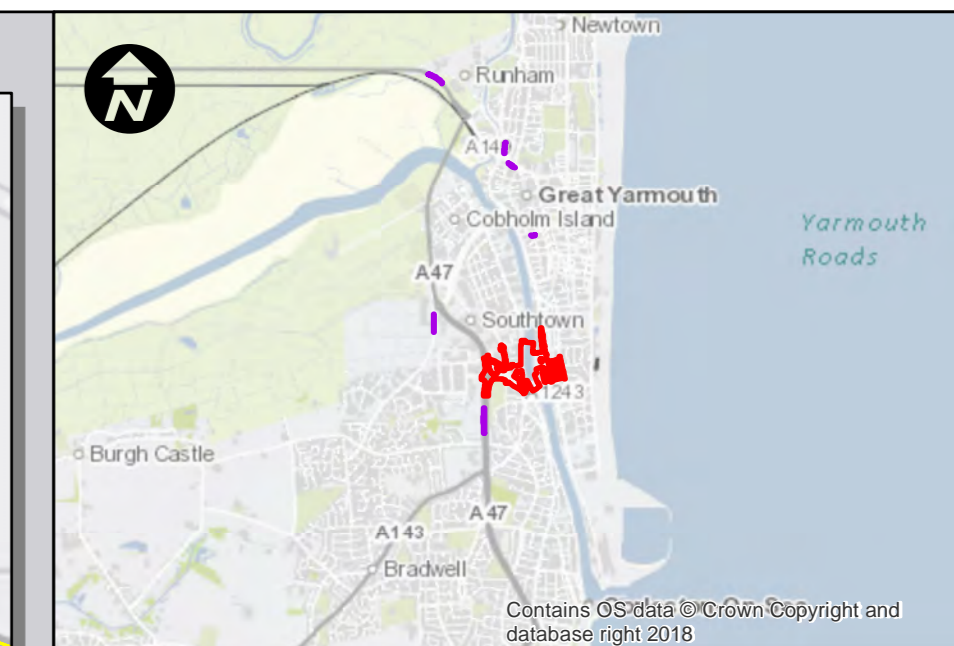
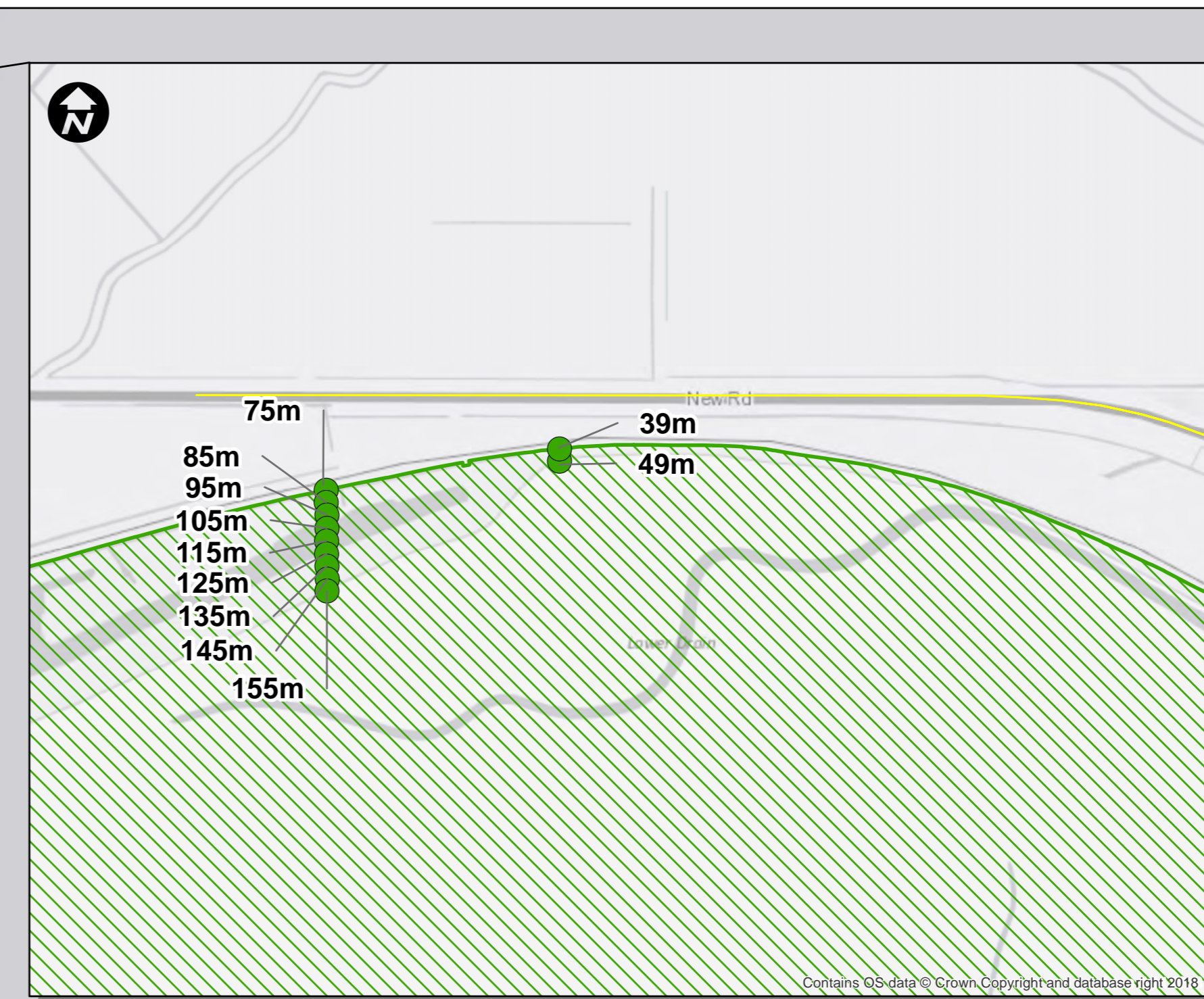
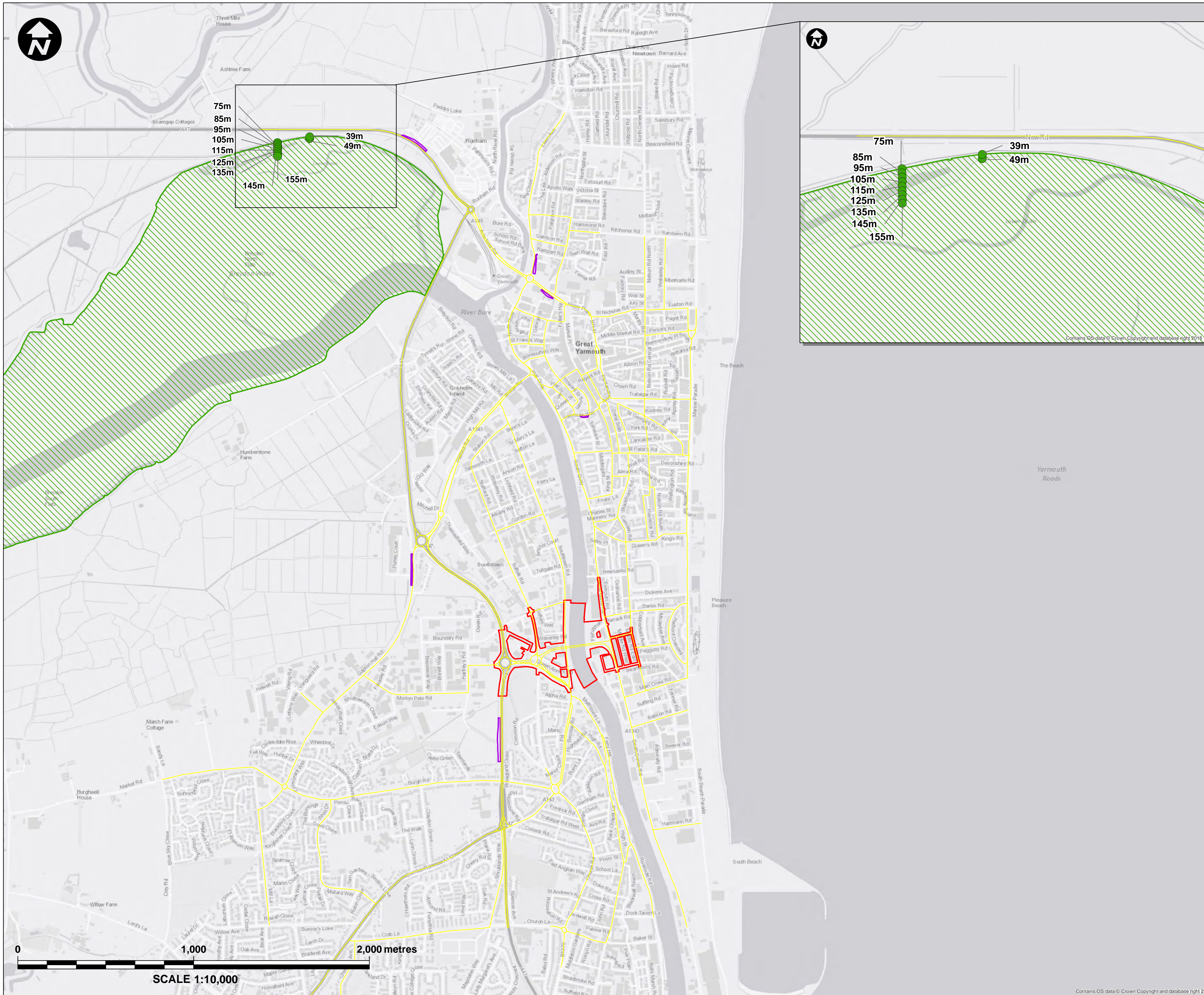
DRAWING TITLE FIGURE 6.17
**AIR QUALITY MONITORING
 LOCATIONS USED IN THE MODEL
 VERIFICATION PROCEDURE
 (REGULATION 5(2)(a))**

DRAWING STATUS
FOR DCO APPLICATION

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DRAWING NUMBER
 GYTRC-WSP-EGN-XX-DR-EN-2027



- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Breydon Water SSSI/SPA/Ramsar
 - Local Model Road Network (LMRN)
- Ecological Assessment Transect DS NO_x Concentration (µg/m³)**
- ≤ 30
 - > 30

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
**FIGURE 6.18
 ECOLOGICAL ASSESSMENT DS NO_x
 RESULTS
 (REGULATION 5(2)(a))**

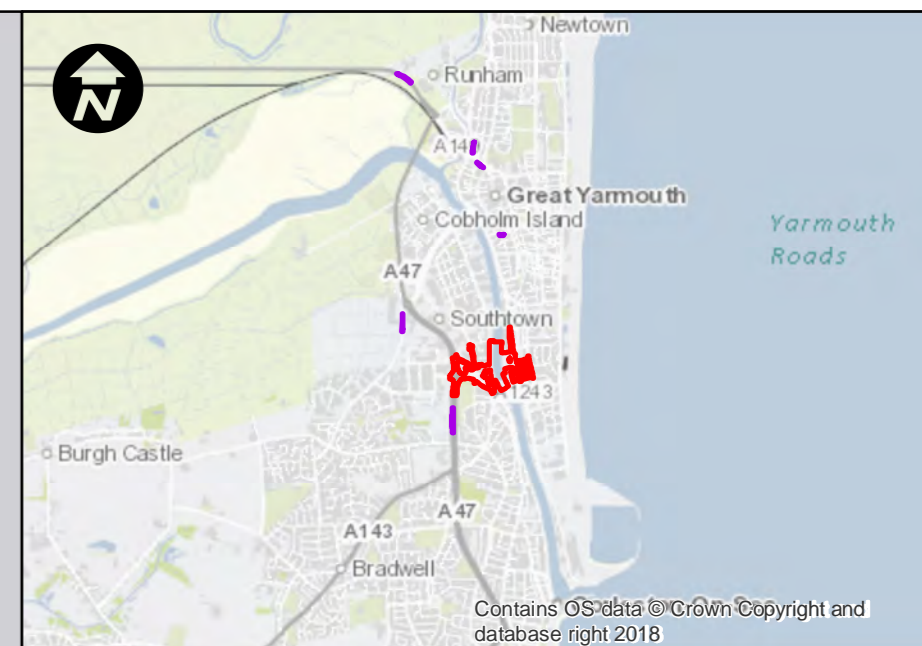
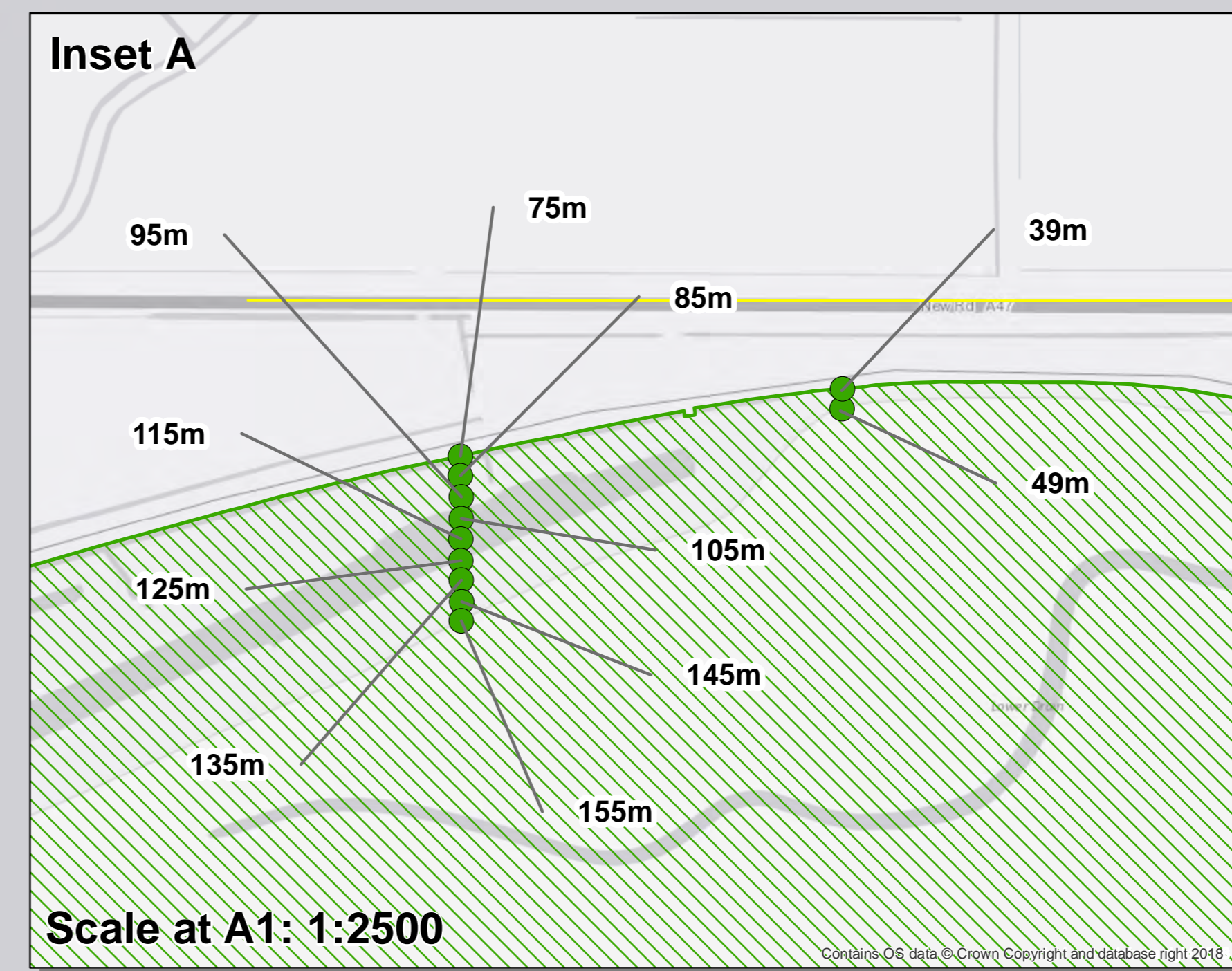
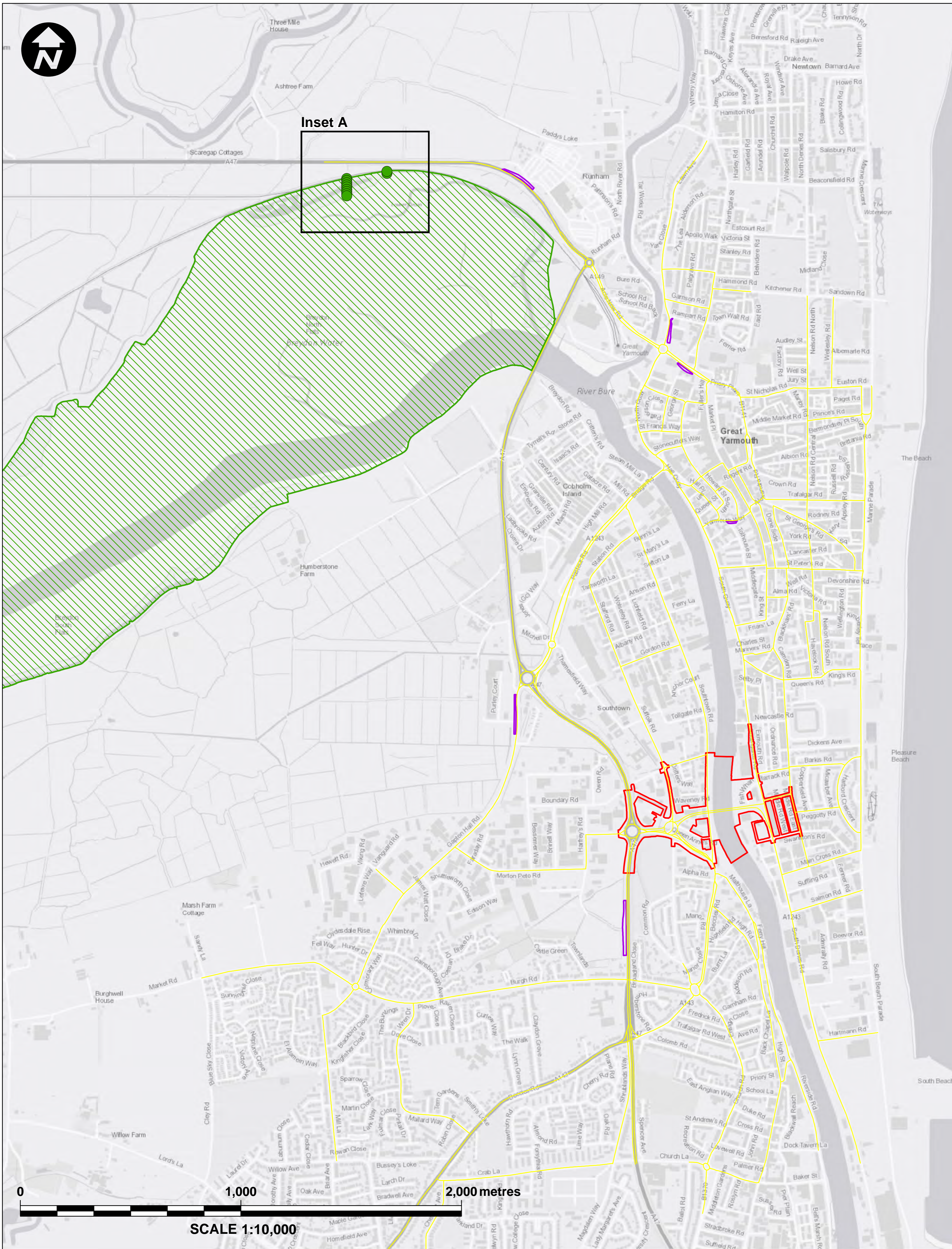
DRAWING STATUS
FOR DCO APPLICATION

DRAWN	CHECKED	APPROVED	AUTHORISED
SR	CL	HH	MK

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1:10,000	29/03/2019	P00

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- Key:**
- Principal Application Site
 - Satellite Application Sites
 - Breydon Water SSSI/SPA/Ramsar
 - Local Model Road Network (LMRN)
 - Change in N-Deposition Rate DM-DS (kg N ha⁻¹ Y⁻¹)

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
**FIGURE 6.19
 ECOLOGICAL ASSESSMENT
 N-DEPOSITION CHANGE RESULTS
 (REGULATION 5(2)(a))**

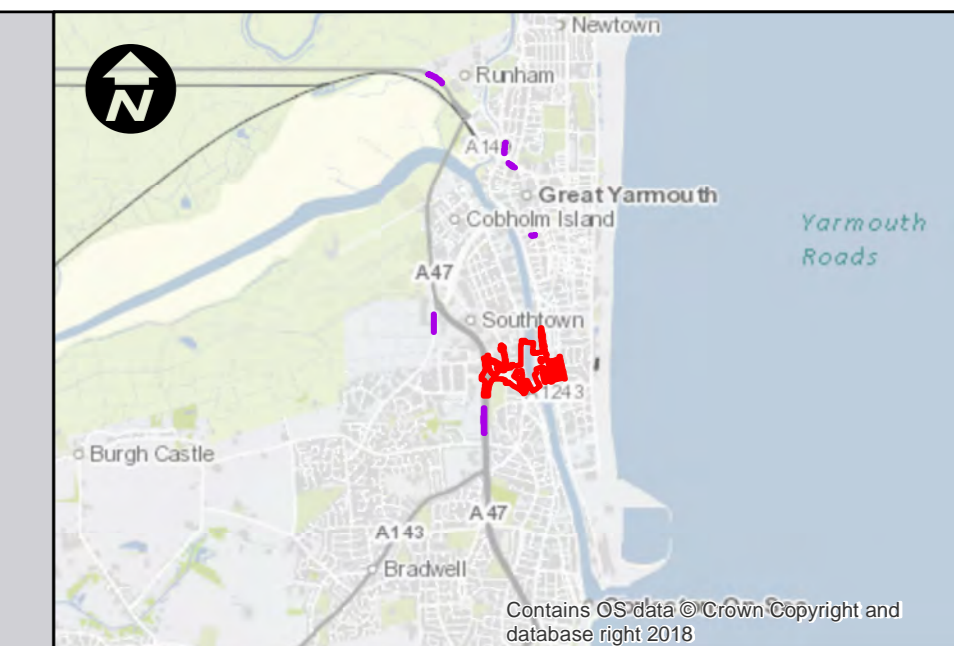
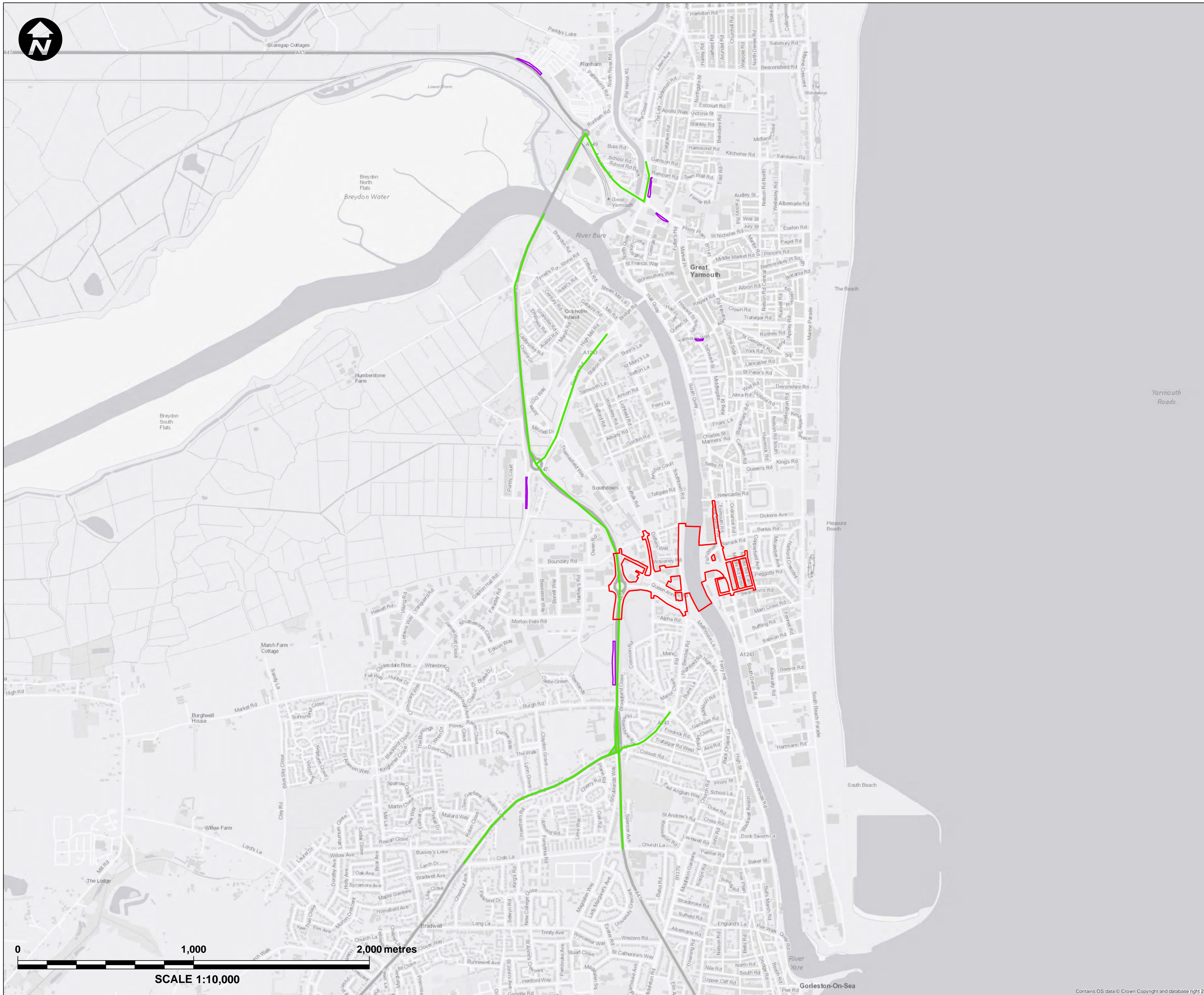
DRAWING STATUS
FOR DCO APPLICATION

DRAWN	CHECKED	APPROVED	AUTHORISED
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DRAWING NUMBER
 GYTRC-WSP-EGN-XX-DR-EN-2029

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Key:

- Principal Application Site
- Satellite Application Sites
- Pollution Climate Mapping Links (PCM Links) with a sensitive receptor situated within 200m

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PROJECT TITLE
**GREAT YARMOUTH
 THIRD RIVER CROSSING**

DRAWING TITLE
**FIGURE 6.20
 COMPLIANCE RISK ASSESSMENT
 STUDY AREA
 (REGULATION 5(2)(a))**

DRAWING STATUS
FOR DCO APPLICATION

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