

# A47 Blofield to North Burlingham Dualling

**Scheme Number: TR010040**

**Volume 6**

**6.3 Environmental Statement Figures**

**Figures 13.1 – 15.1**

APFP Regulation 5(2)(a)

Planning Act 2008

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

December 2020

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedure) Regulations 2009**

A47 Blofield to North Burlingham  
Development Consent Order 202[x]

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**ENVIRONMENTAL STATEMENT FIGURES**

**Figures 13.1 – 15.1**

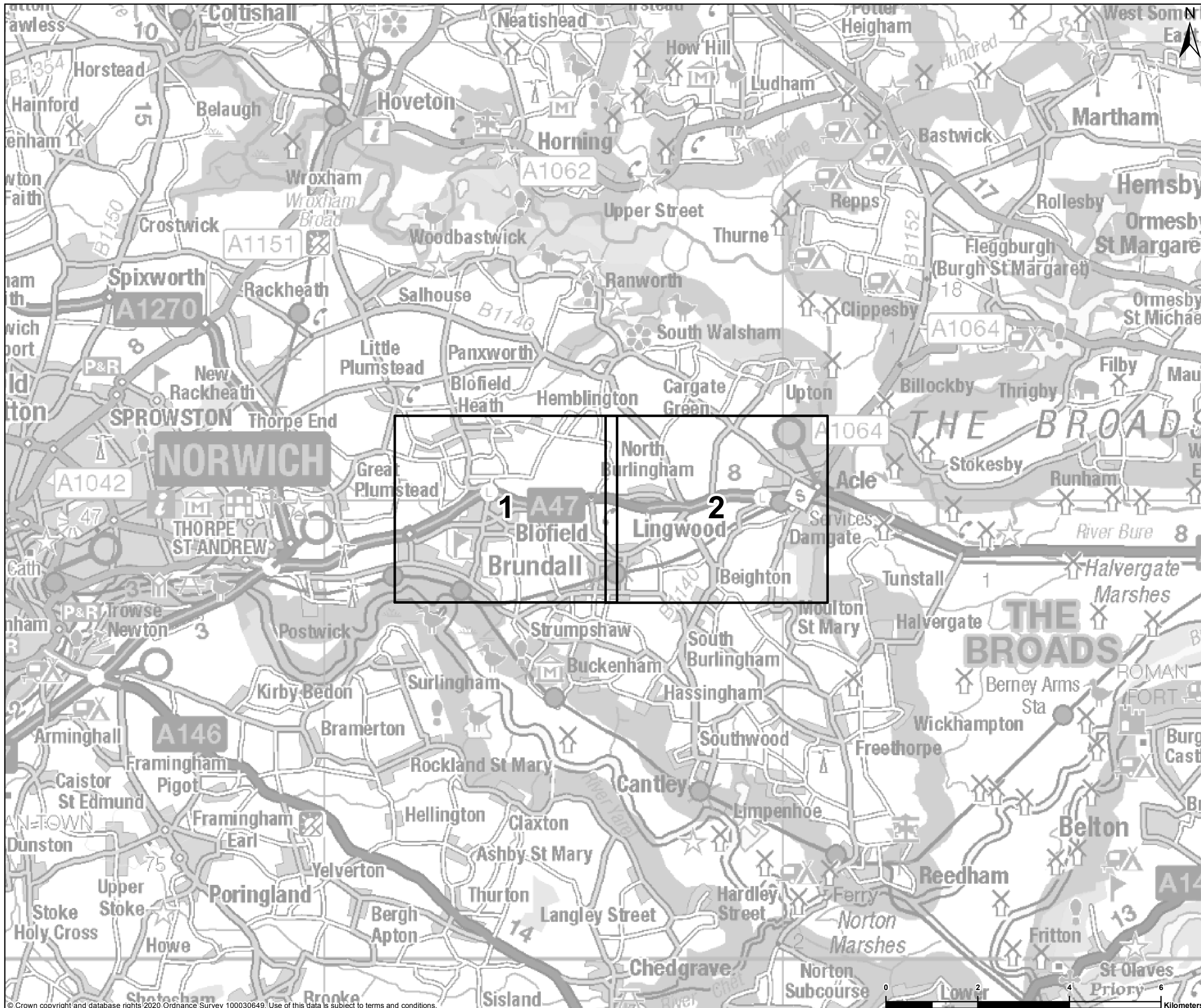
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<b>Regulation Number:</b>	Regulation 5(2)(a)
<b>Planning Inspectorate Scheme Reference</b>	TR010040
<b>Application Document Reference</b>	6.3
<b>BIM Document Reference</b>	PCF Stage 3
<b>Author:</b>	A47 Blofield to North Burlingham Dualling Project Team, Highways England

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 0	December 2020	Application Issue

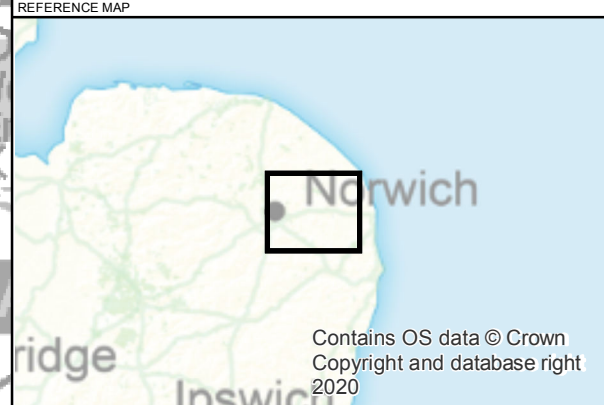
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**LEGEND**

Sheet extent



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**highways  
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**PROJECT TITLE**

A47 BLOFIELD TO NORTH BURLINGHAM

**PROJECT STAGE**

PCF STAGE 3

**DRAWING TITLE**

FIGURE 13.1 - SURFACE WATER FEATURES,  
CONSENTED DISCHARGES AND FLUVIAL FLOOD RISK  
KEY PLAN  
TR010040/APP/6.3

**SUITABILITY**

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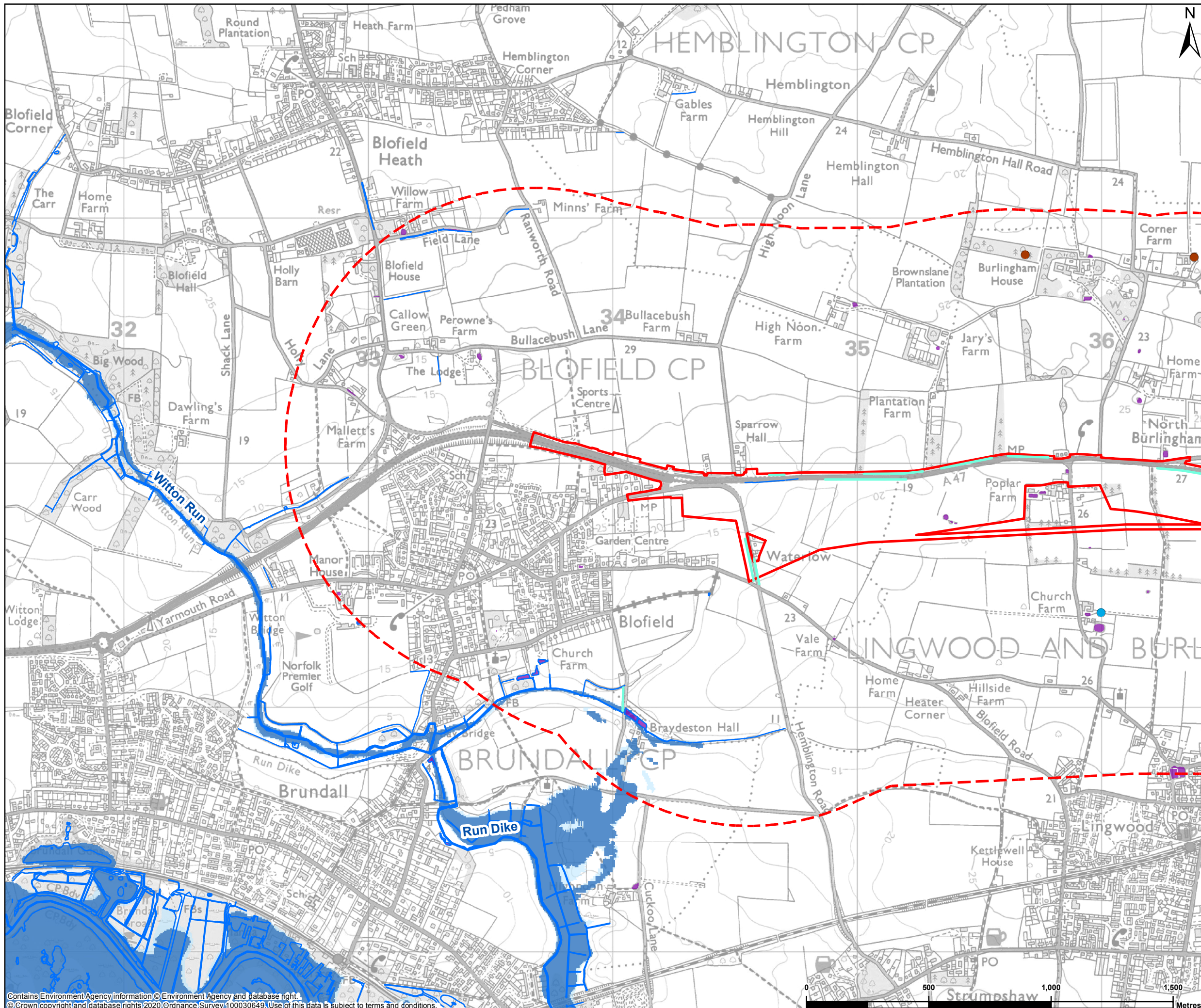
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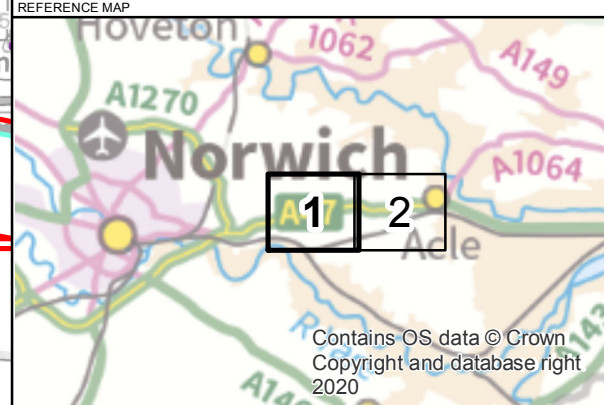
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- LEGEND**
- Red line boundary
  - Study area
  - Main river
  - Watercourse
  - Ditch (identified in site walkover survey)
  - Pond
  - Flood zone 2
  - Flood zone 3
  - Consented discharge location**
  - Groundwater
  - Surface water



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A47 BLOFIELD TO NORTH BURLINGHAM

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DRAWING TITLE  
FIGURE 13.1 - SURFACE WATER FEATURES, CONSENTED DISCHARGES AND FLUVIAL FLOOD RISK SHEET 1 OF 2 TR010040/APP/6.3

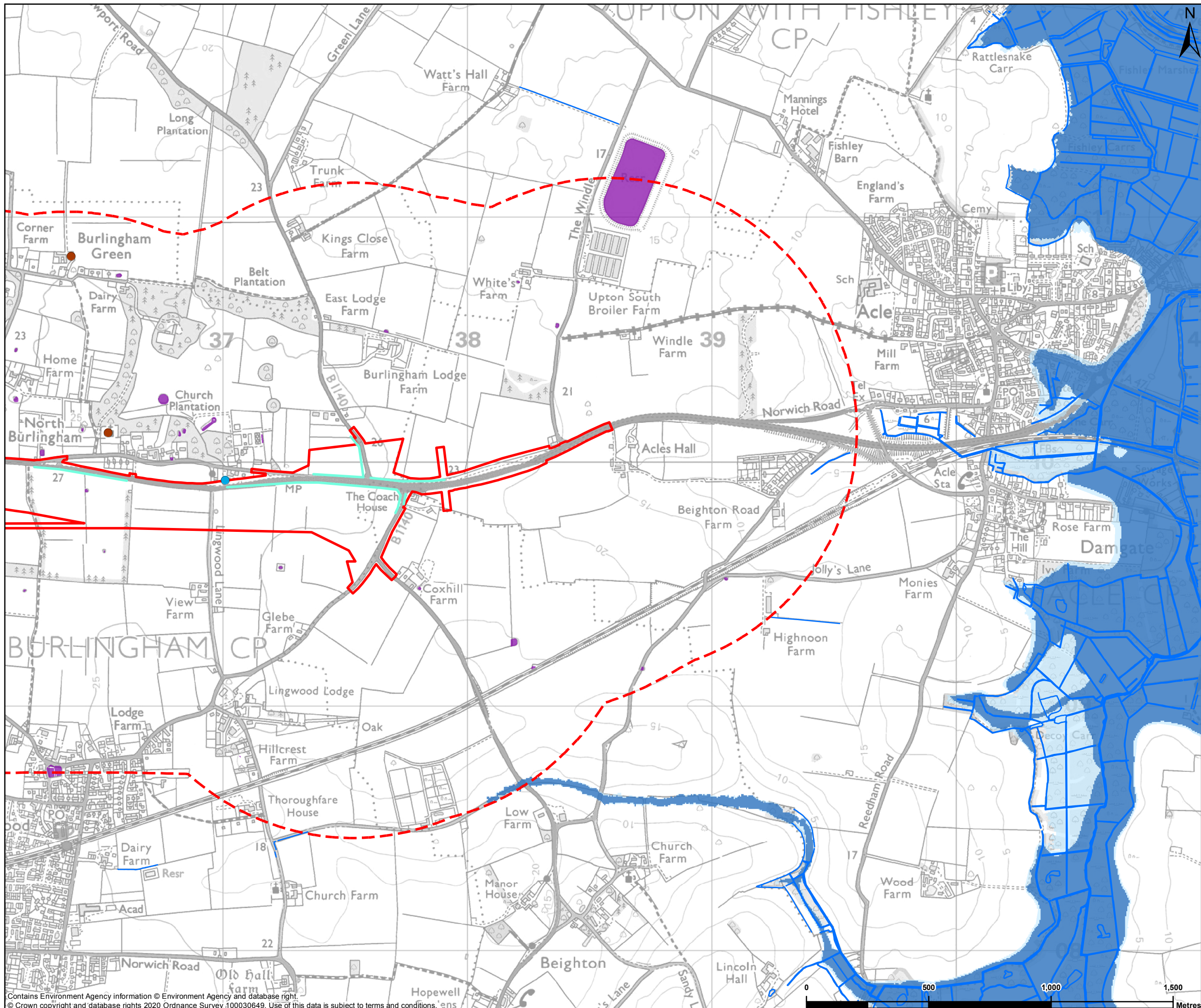
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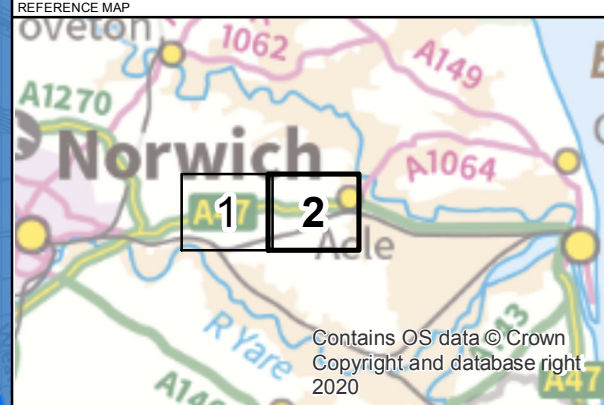


**LEGEND**

- Red line boundary
- Study area
- Main river
- Watercourse
- Ditch (identified in site walkover survey)
- Pond
- Flood zone 2
- Flood zone 3

**Consented discharge location**

- Groundwater
- Surface water



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FIGURE 13.1 - SURFACE WATER FEATURES,  
CONSENTED DISCHARGES AND FLUVIAL FLOOD RISK  
SHEET 2 OF 2  
TR010040/APP/6.3

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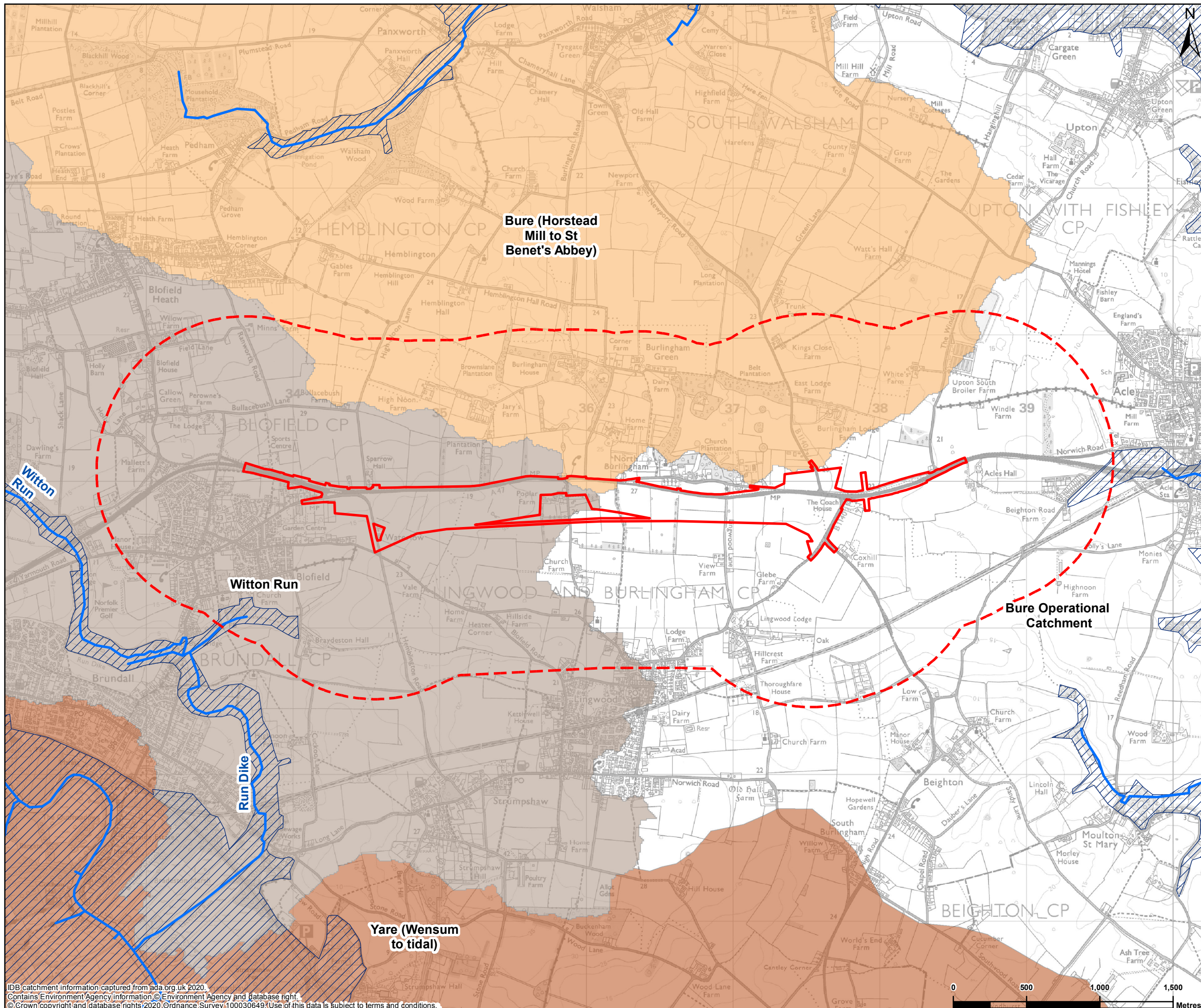
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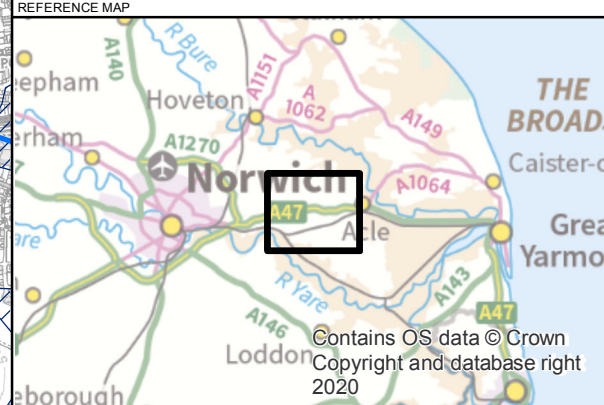
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- LEGEND**
- Red line boundary
  - Study area
  - Main river
  - IDB catchment (The Broads)
  - WFD river water body catchment
  - Bure (Horstead Mill to St Benet's Abbey)
  - Witton Run
  - Yare (Wensum to tidal)



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**FIGURE 13.2 - WATER FRAMEWORK DIRECTIVE (WFD) AND INTERNAL DRAINAGE BOARD (IDB) SURFACE WATERBODIES TR010040/APP/6.3**

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**FOR INFORMATION**

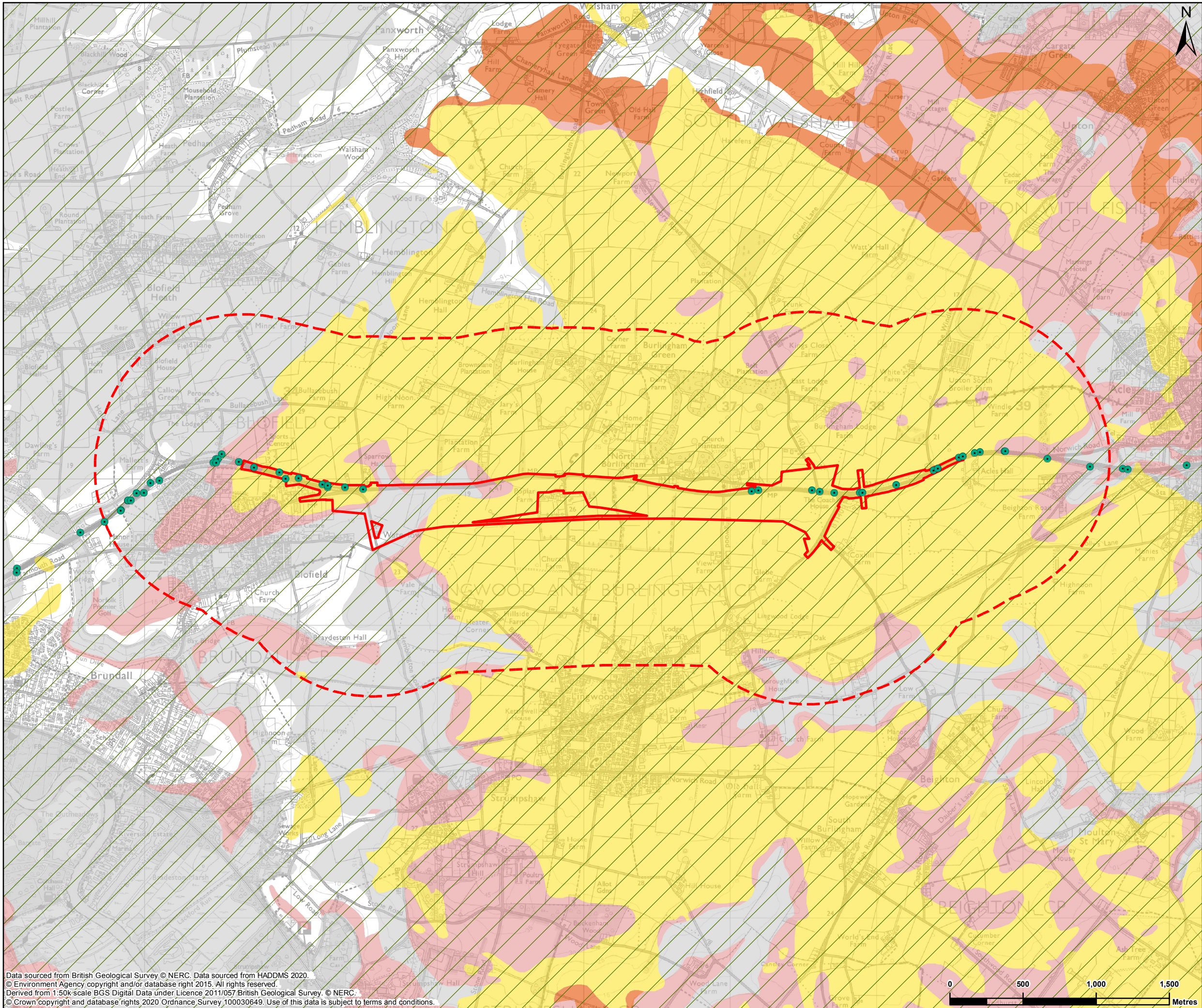
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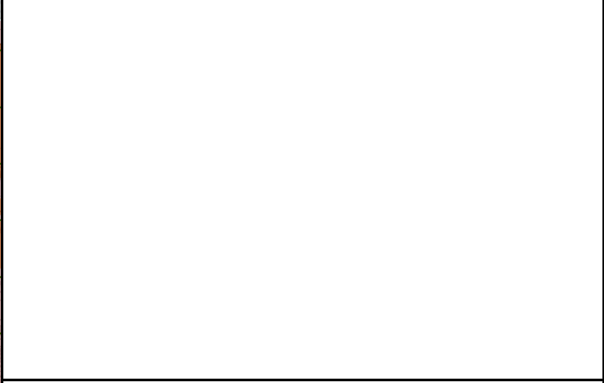
IDB catchment information captured from [ada.org.uk](http://ada.org.uk) 2020.  
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**LEGEND**

- Red line boundary
- Study area
- Highways England soakaway
- BGS aquifer designation - bedrock
- / Principal
- BGS aquifer designation - superficial
- Secondary A
- Secondary B
- Secondary (undifferentiated)
- Unproductive



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FIGURE 13.3 - AQUIFER DESIGNATIONS  
TR010040/APP/6.3

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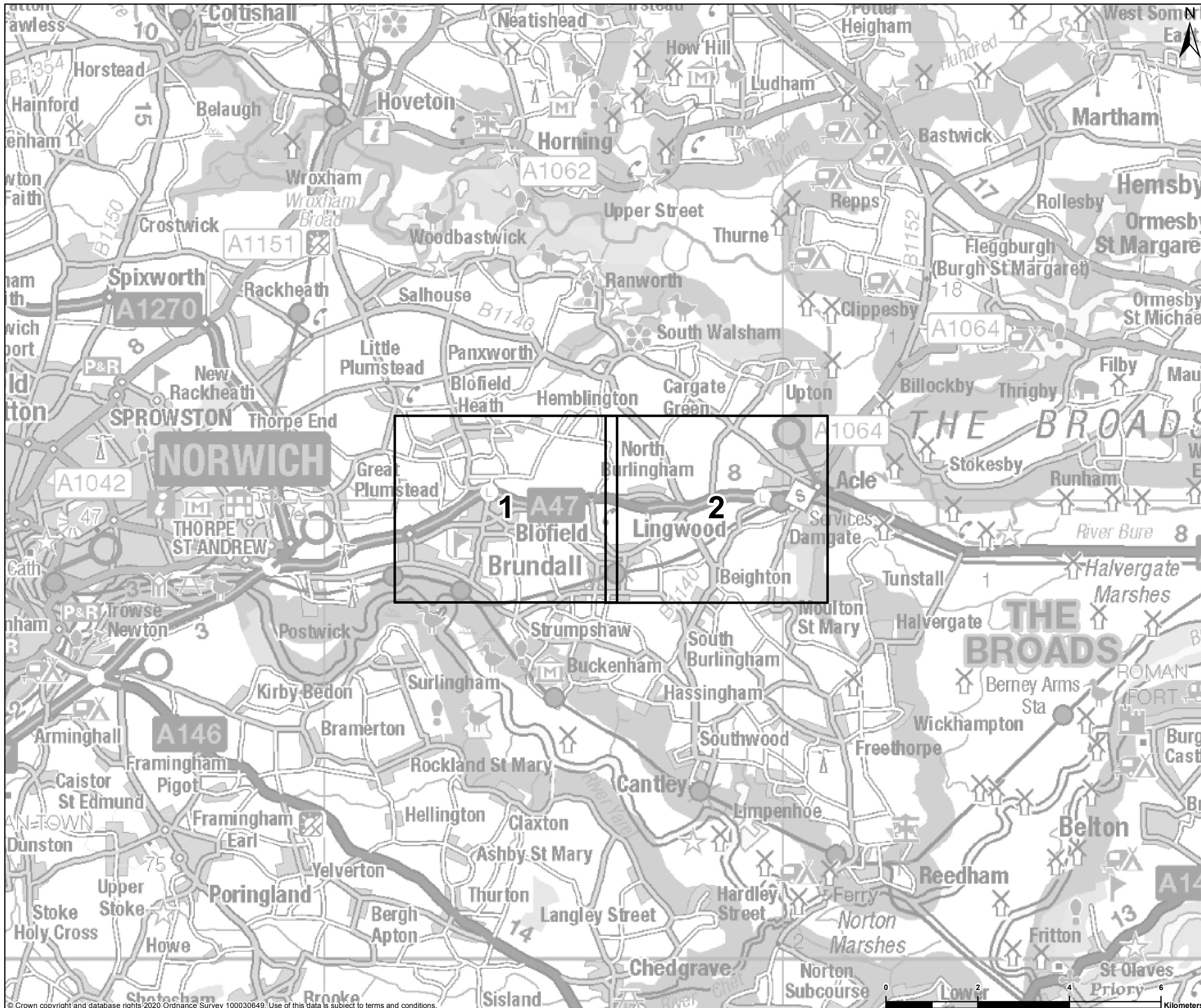
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 Sheet extent

**REFERENCE MAP**  

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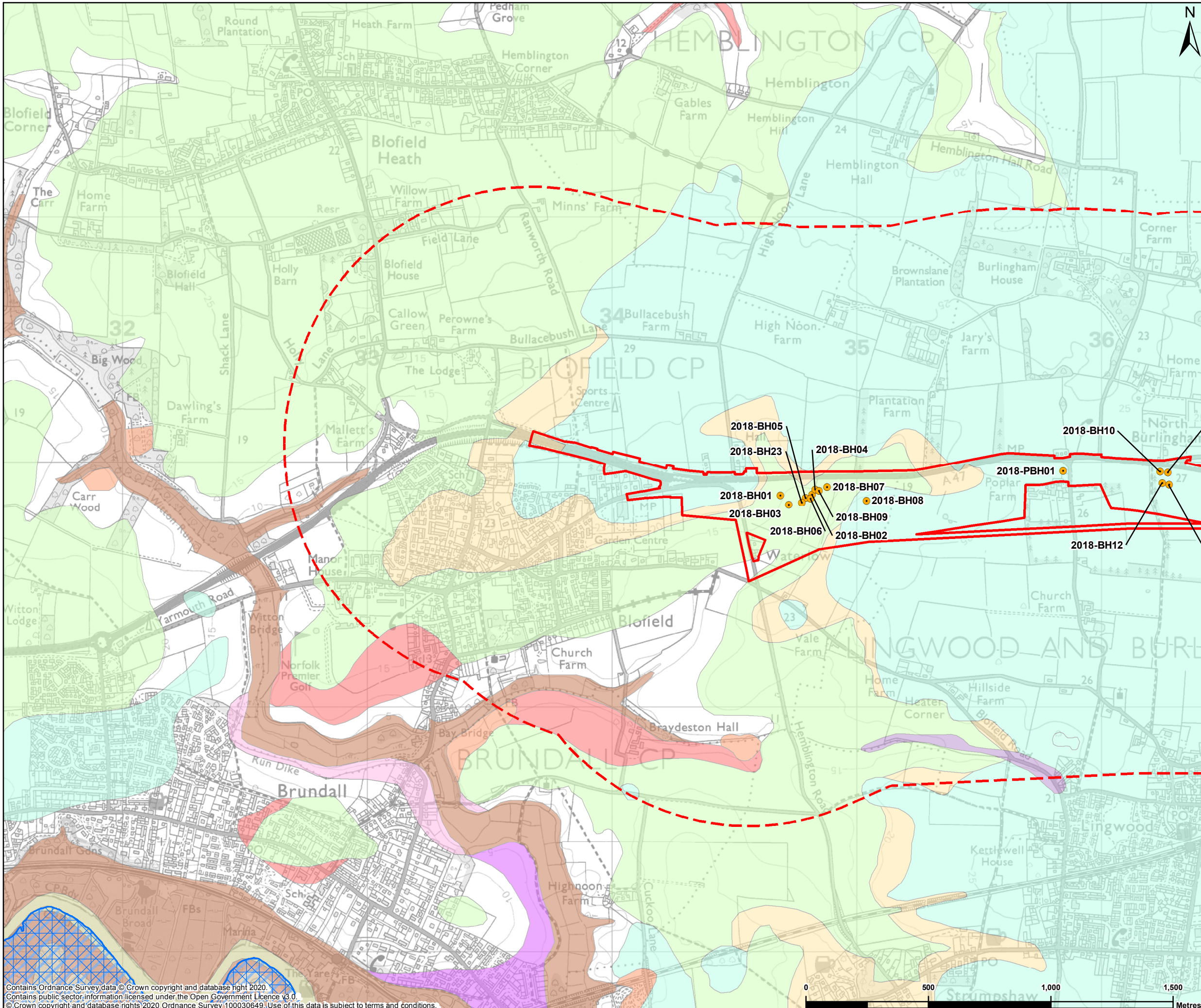
**DRAWING TITLE**  
 FIGURE 13.4 - GROUND INVESTIGATION BOREHOLES KEY PLAN  
 TR010040/APP/6.3

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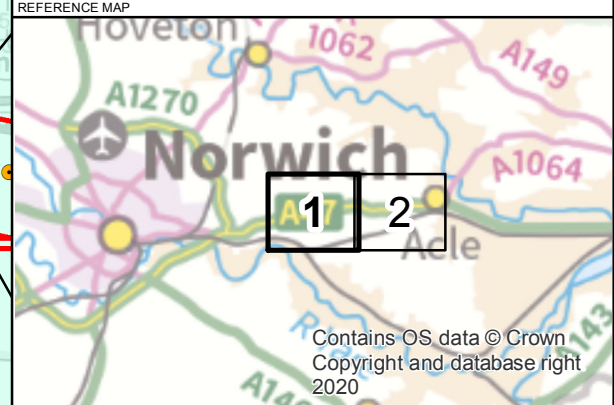


**LEGEND**

- Red line boundary
- Study area
- Borehole
- National Nature Reserve (NNR)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- Ramsar site

**BGS superficial geology (50k)**

- Lacustrine Mud – silts and clay
- Tidal River or Creek Deposits - mud
- Marine Beach Deposits – sand and gravel
- Head - sandy silty clay
- River Terrace Deposits – sand and gravel (undifferentiated)
- Breydon Formation (undivided, mainly silt and clay)
- Breydon Formation - peat
- Lowestoft Formation – diamicton
- Lowestoft Formation – sand and gravel
- Happisburgh Glacigenic Formation – sand
- Happisburgh Glacigenic Formation – diamicton
- Crag Group and Bytham Sands and Gravels Formation – sand and gravel (undifferentiated)



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FIGURE 13.4 - GROUND INVESTIGATION BOREHOLES SHEET 1 OF 2 TR010040/APP/6.3

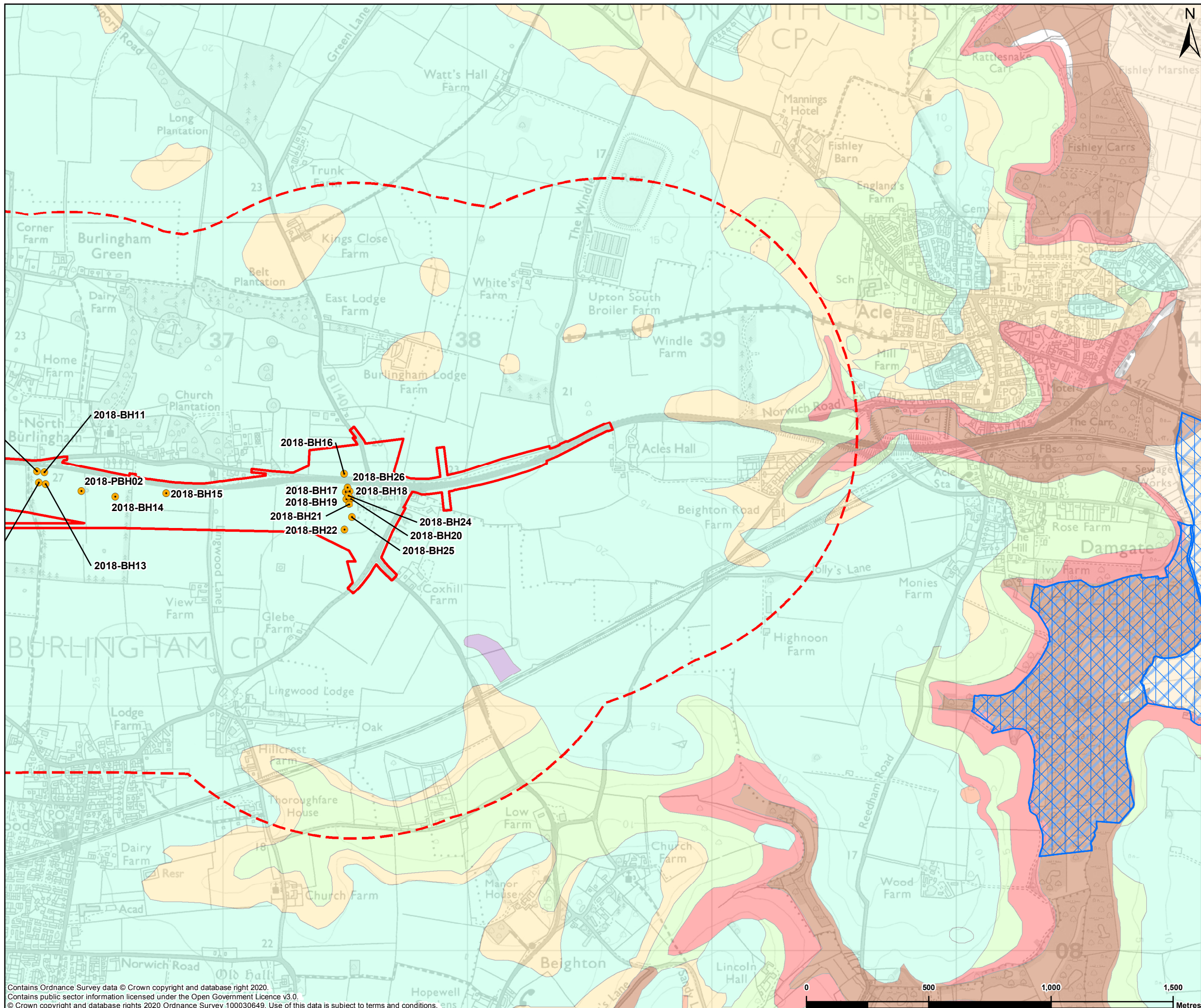
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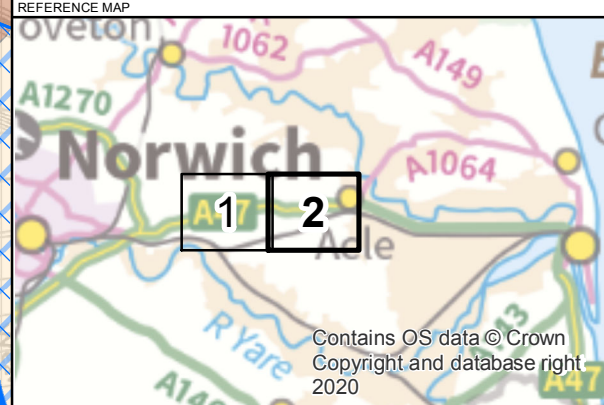


**LEGEND**

- Red line boundary
- Study area
- Borehole
- National Nature Reserve (NNR)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- Ramsar site

**BGS superficial geology (50k)**

- Lacustrine Mud – silts and clay
- Tidal River or Creek Deposits - mud
- Marine Beach Deposits – sand and gravel
- Head - sandy silty clay
- River Terrace Deposits – sand and gravel (undifferentiated)
- Breydon Formation (undivided, mainly silt and clay)
- Breydon Formation - peat
- Lowestoft Formation – diamicton
- Lowestoft Formation – sand and gravel
- Happisburgh Glacigenic Formation – sand
- Happisburgh Glacigenic Formation – diamicton
- Crag Group and Bytham Sands and Gravels Formation – sand and gravel (undifferentiated)



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**FIGURE 13.4 - GROUND INVESTIGATION BOREHOLES SHEET 2 OF 2 TR010040/APP/6.3**

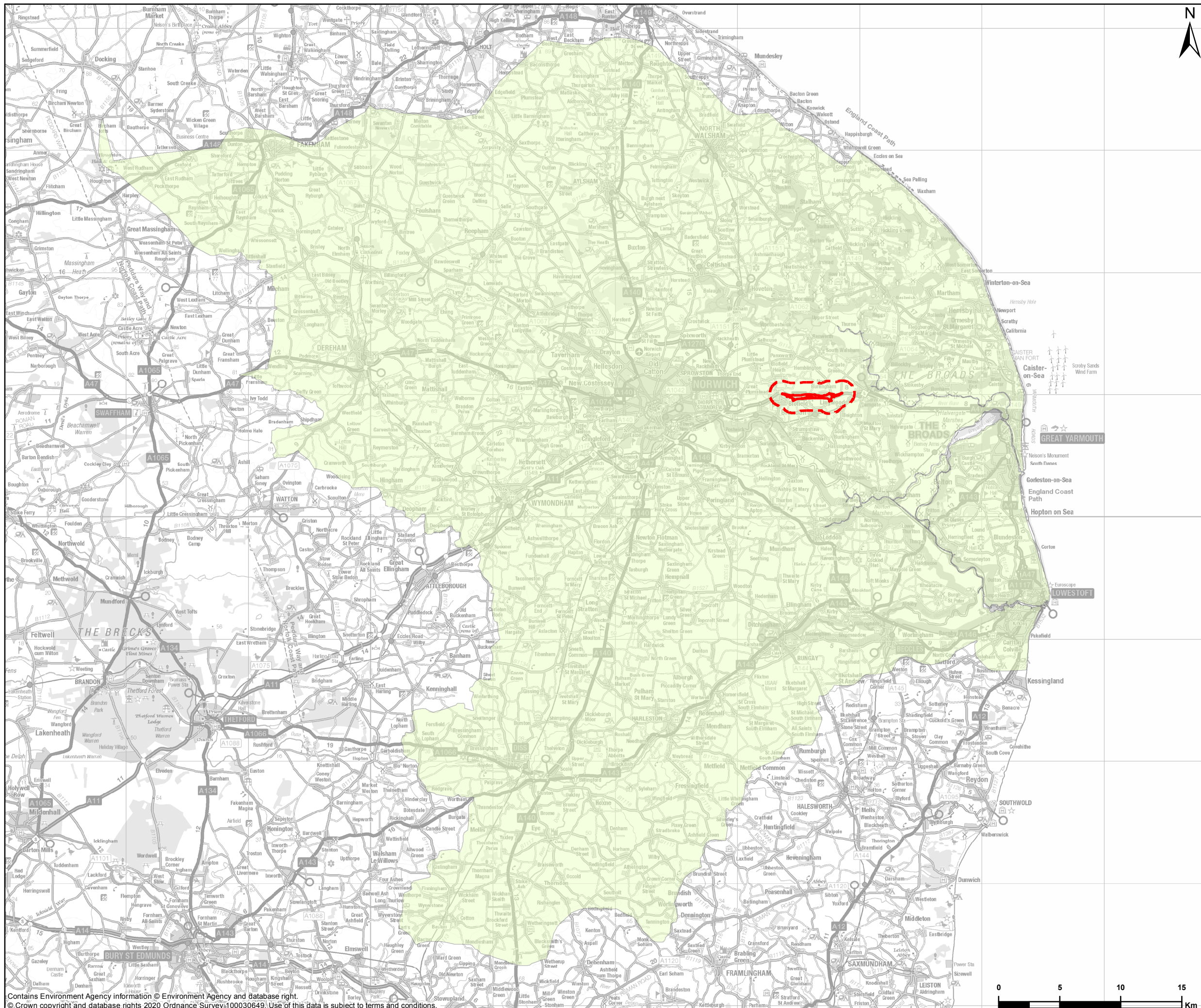
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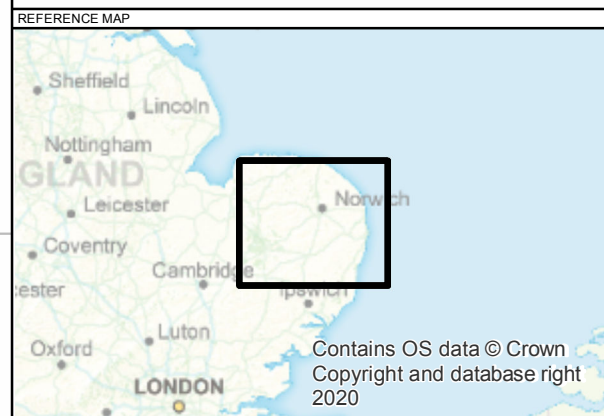
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**LEGEND**

- Red line boundary
- Study area
- WFD groundwater bodies
- Broadland Rivers Chalk and Crag



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DRAWING TITLE  
**FIGURE 13.5 - WATER FRAMEWORK DIRECTIVE (WFD) GROUNDWATER BODIES TR010040/APP/6.3**

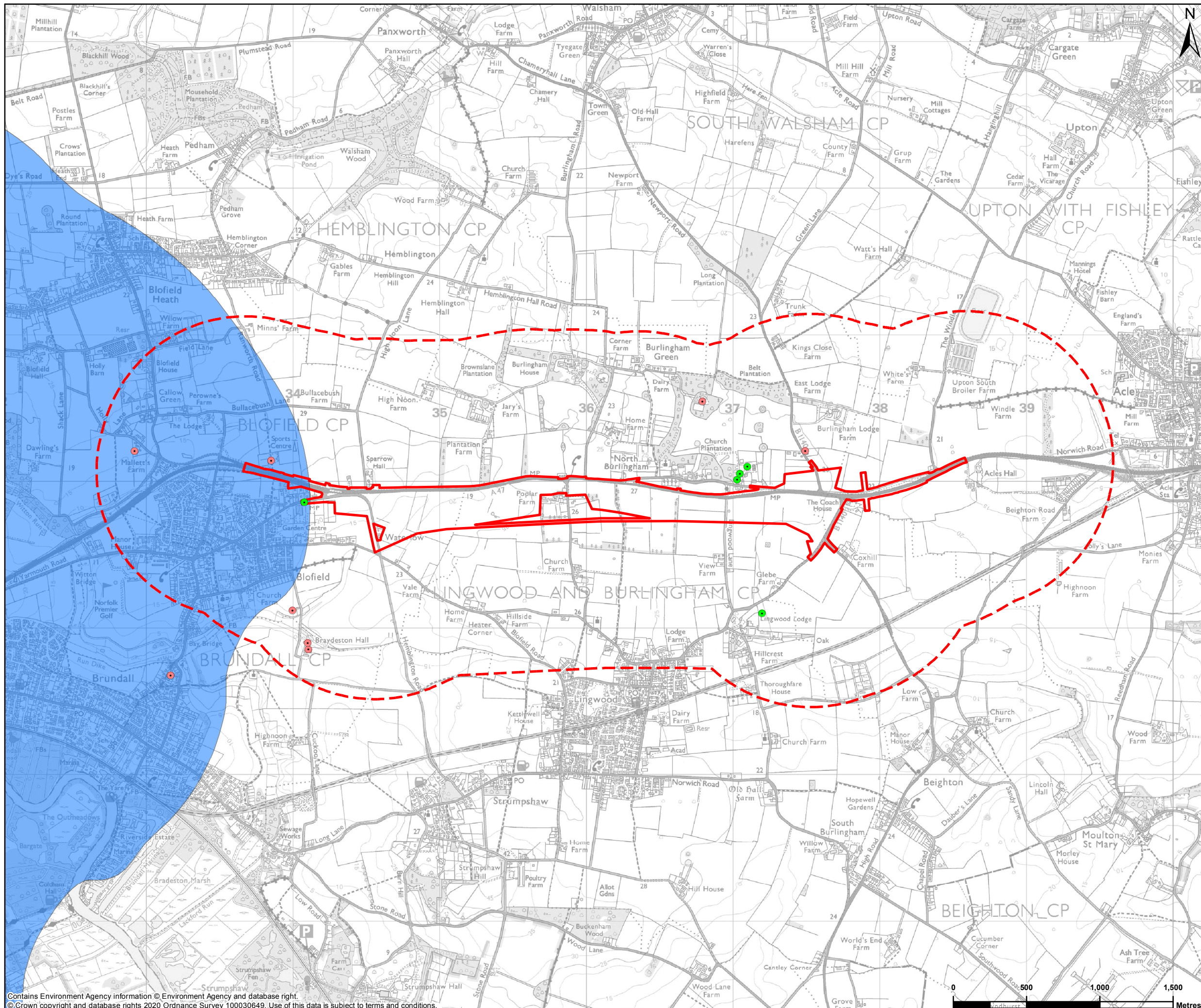
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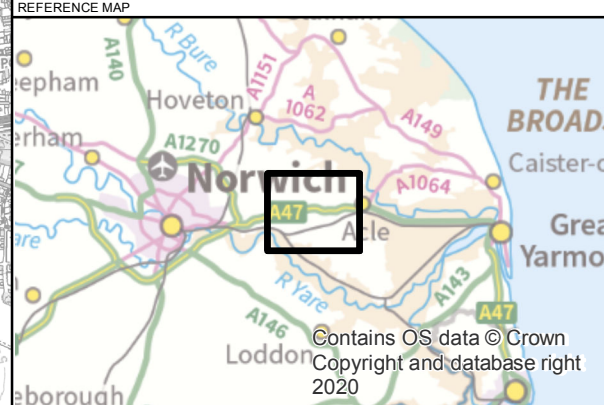
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**LEGEND**

- Red line boundary
- Study area
- Source protection zone III – total catchment
- Licensed groundwater abstractions
- Unlicensed groundwater abstractions



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**FIGURE 13.6 - GROUNDWATER ABSTRACTIONS AND SOURCE PROTECTION ZONES TR010040/APP/6.3**

SUITABILITY

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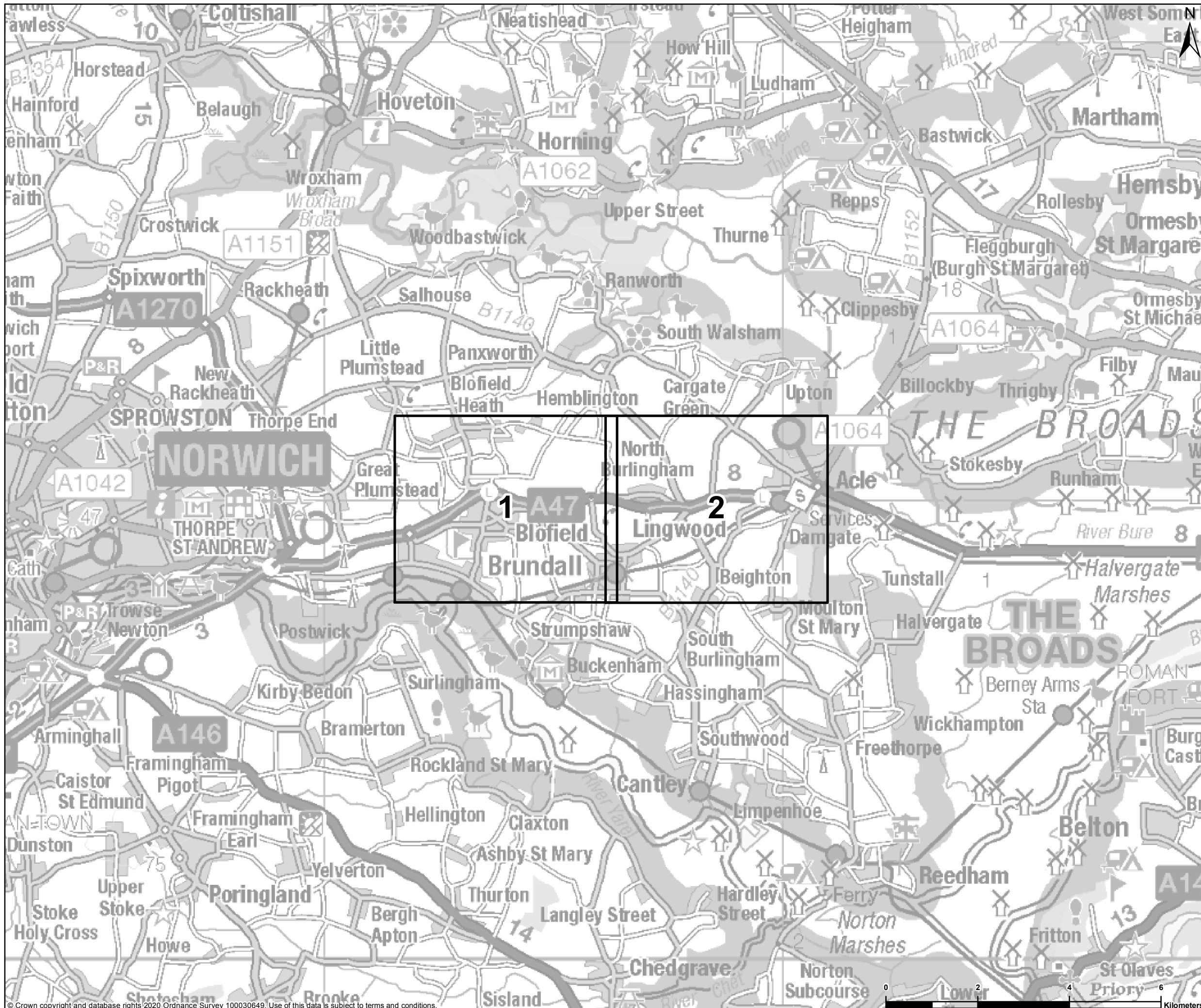
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**LEGEND**  
 Sheet extent

**REFERENCE MAP**  
  
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P01	12/11/2020	FIRST EDITION	PC	CM	JB
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

**DESIGNER**

**CONTRACTOR**

**CLIENT**

**PROJECT TITLE**  
 A47 BLOFIELD TO NORTH BURLINGHAM

**PROJECT STAGE**  
 PCF STAGE 3

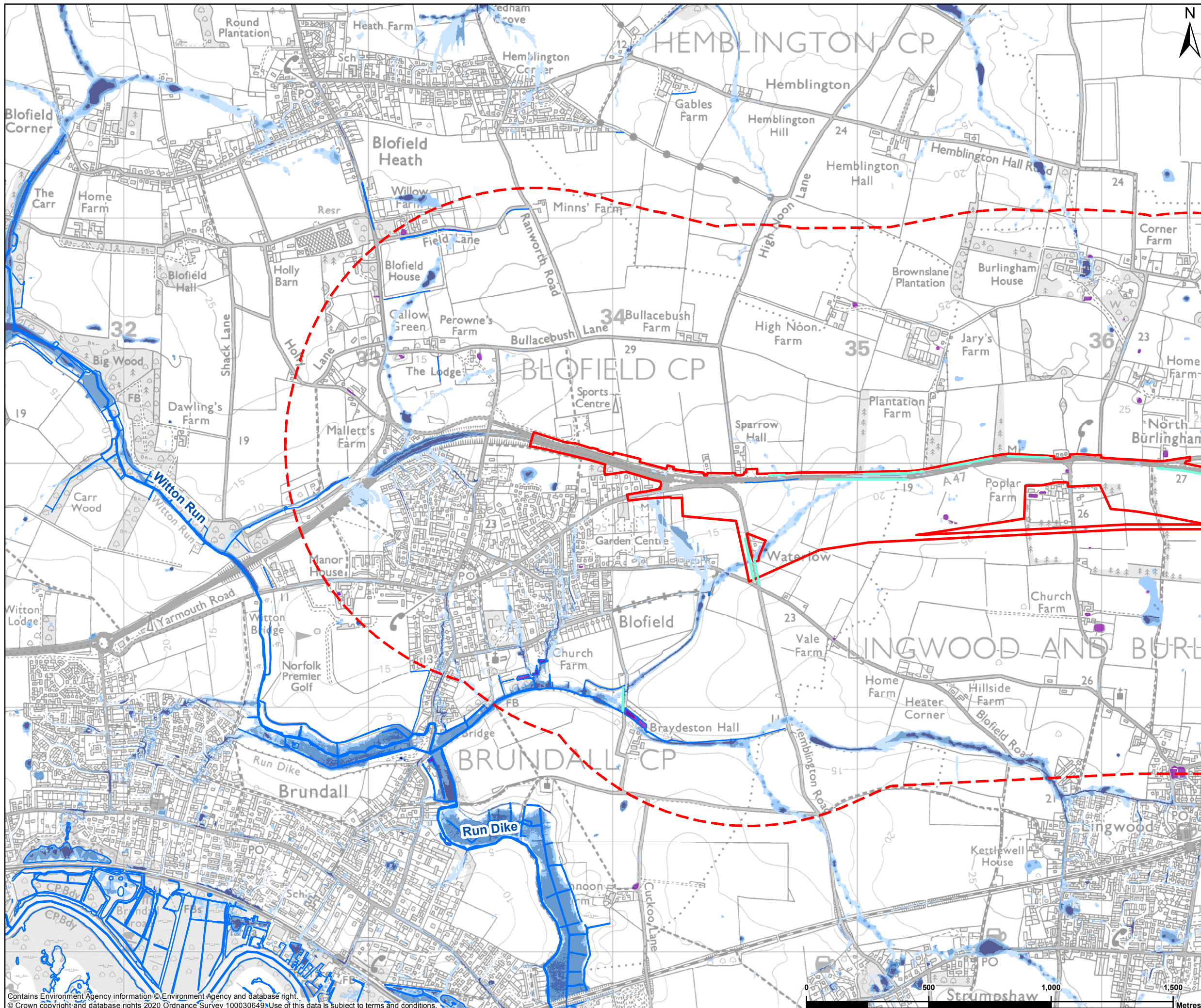
**DRAWING TITLE**  
 FIGURE 13.7 - SURFACE WATER FLOOD RISK KEY PLAN  
 TR010040/APP/6.3

**SUITABILITY**  
 FOR INFORMATION

<b>SHEET SIZE</b> A3	<b>SCALE</b> 1:80,000	<b>STATUS</b> S2
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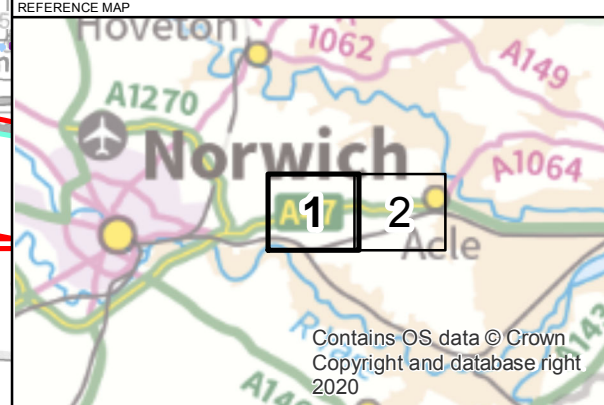
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**LEGEND**

- Red line boundary
- Study area
- Main river
- Watercourse
- Ditch (identified in site walkover survey)
- Pond
- Risk of flooding from surface water extent (0.1% annual chance)
- Risk of flooding from surface water extent (1% annual chance)
- Risk of flooding from surface water extent (3.3% annual chance)



P01	19/10/2020	AMENDMENTS TO RED LINE BOUNDARY	JB	CM	JB
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER

**SWECO**

CONTRACTOR

**GallifordTry**

CLIENT

**highways  
england**

PROJECT TITLE

A47 BLOFIELD TO NORTH BURLINGHAM

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

FIGURE 13.7 - SURFACE WATER FLOOD RISK  
SHEET 1 OF 2  
TR010040/APP/6.3

SUITABILITY

FOR INFORMATION

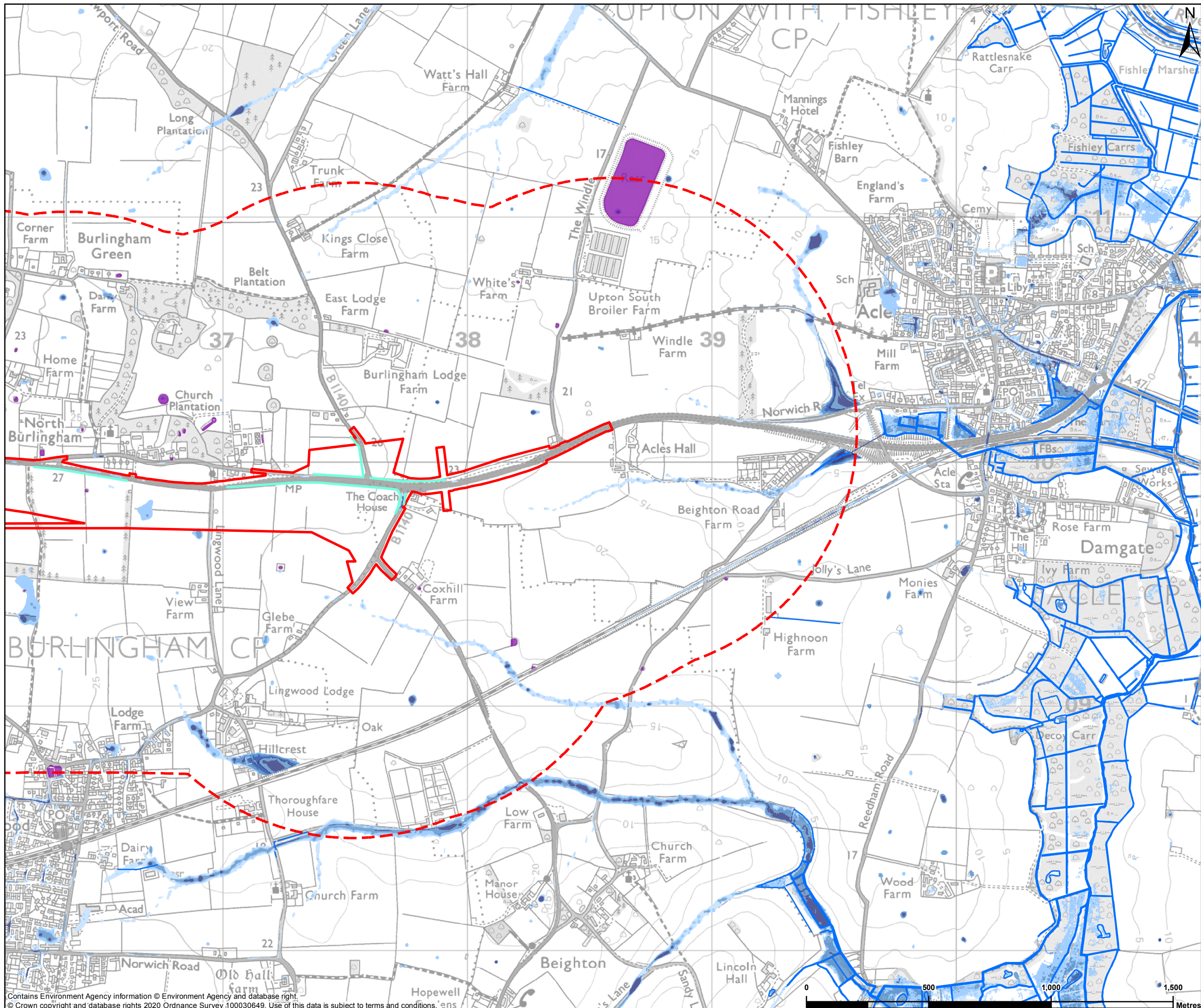
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**LEGEND**

- Red line boundary
- Study area
- Main river
- Watercourse
- Ditch (identified in site walkover survey)
- Pond
- Risk of flooding from surface water extent (0.1% annual chance)
- Risk of flooding from surface water extent (1% annual chance)
- Risk of flooding from surface water extent (3.3% annual chance)

**REFERENCE MAP**

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P01	19/10/2020	AMENDMENTS TO RED LINE BOUNDARY	JB	CM	JB
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER  
**SWECO**

CONTRACTOR  
**GallifordTry**

CLIENT  
**highways england**

PROJECT TITLE  
A47 BLOFIELD TO NORTH BURLINGHAM

PROJECT STAGE  
PCF STAGE 3

DRAWING TITLE  
FIGURE 13.7 - SURFACE WATER FLOOD RISK SHEET 2 OF 2 TR010040/APP/6.3

SUITABILITY  
FOR INFORMATION

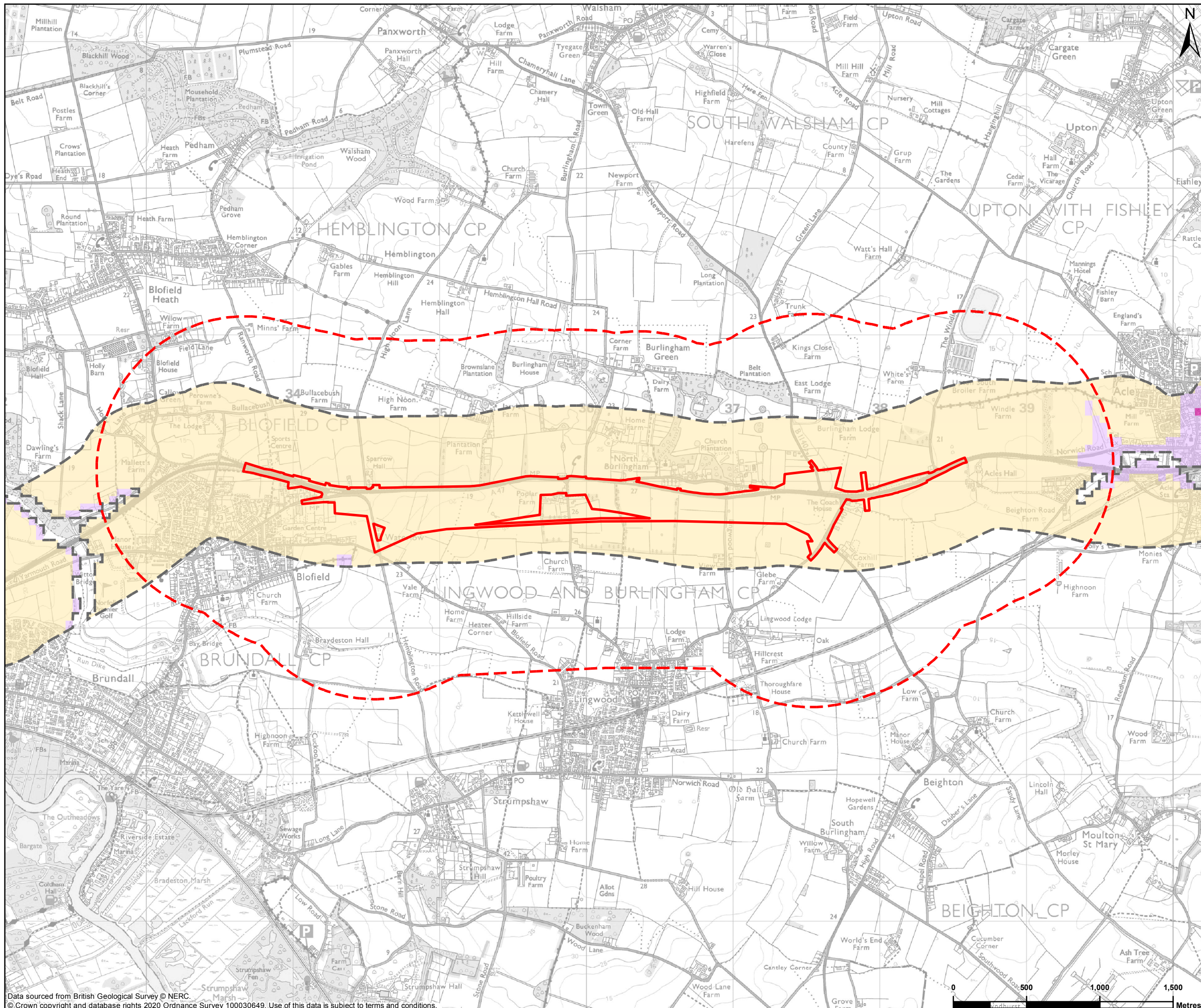
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DRAWING NUMBER  
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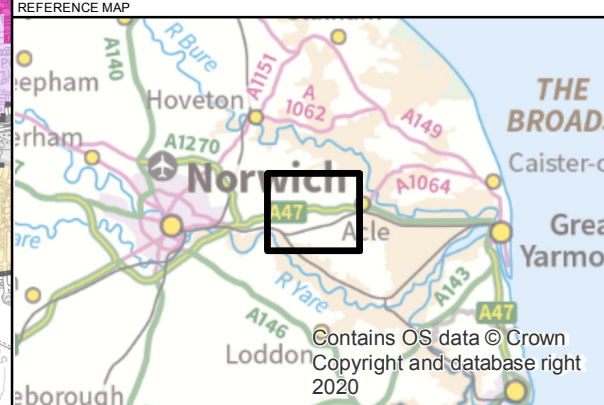
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**LEGEND**

- Red line boundary
- Study area
- BGS groundwater flooding susceptibility**
- Limited potential for groundwater flooding to occur
- Potential for groundwater flooding of property situated below ground level
- Potential for groundwater flooding to occur at surface
- Extents of dataset availability



P01	21/10/2020	AMENDMENTS TO RED LINE BOUNDARY	JB	CM	JB
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

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**highways england**

PROJECT TITLE  
A47 BLOFIELD TO NORTH BURLINGHAM

PROJECT STAGE  
PCF STAGE 3

DRAWING TITLE  
FIGURE 13.8 - SUSCEPTIBILITY TO GROUNDWATER FLOODING TR010040/APP/6.3

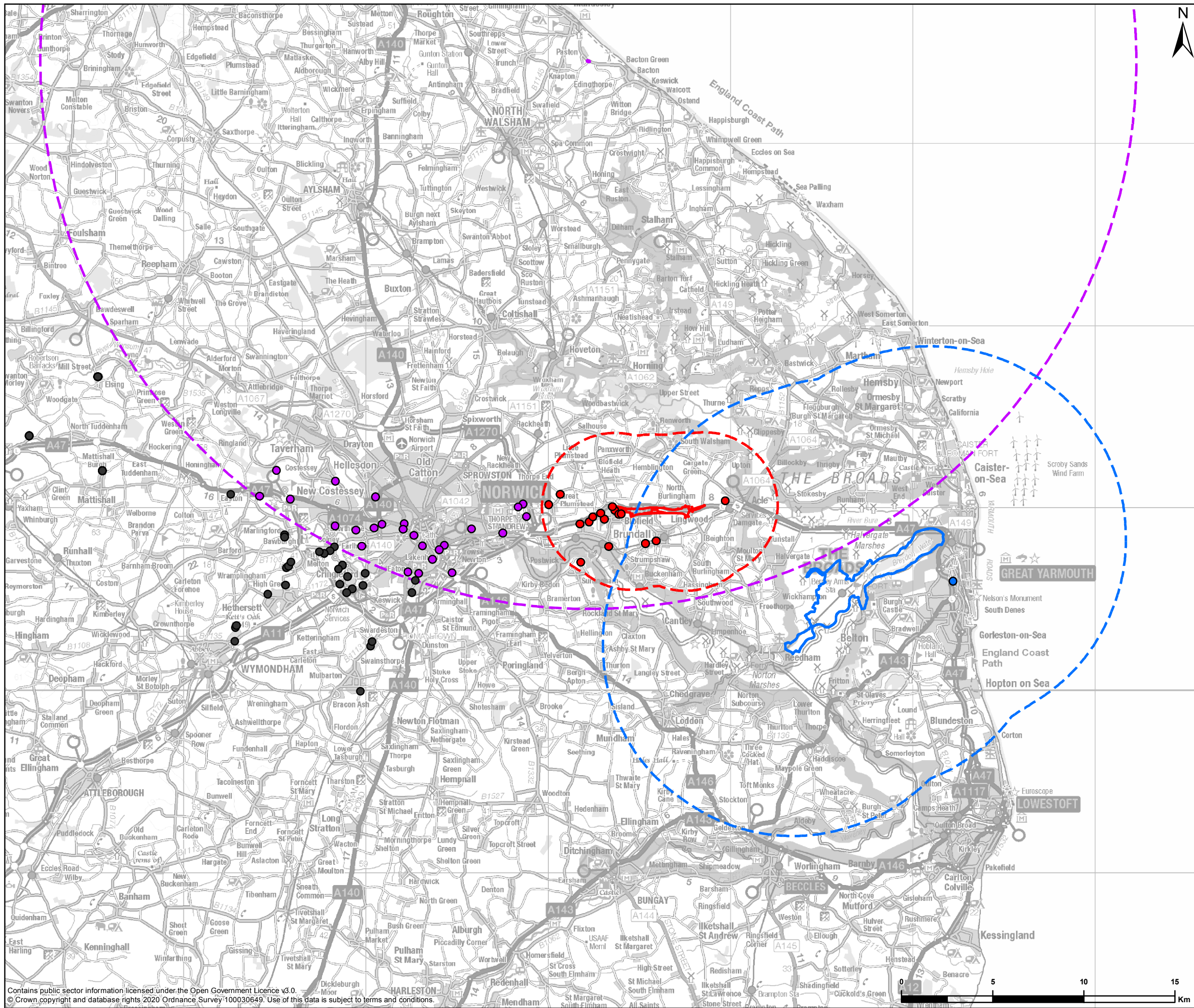
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FOR INFORMATION

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DRAWING NUMBER  
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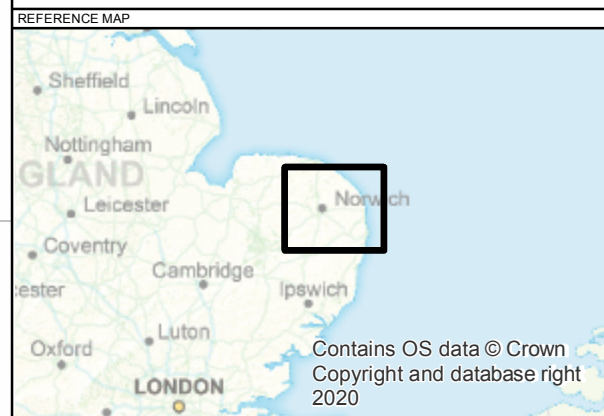
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**LEGEND**

- Red line boundary
- Study area
- Development location
- Development location within Study area
- Development location within Breydon Water SPA 10km buffer
- Development location within Paston Great Barn SAC 30km buffer
- Breydon Water SPA
- Breydon Water SPA 10km buffer
- Paston Great Barn SAC
- Paston Great Barn SAC 30km buffer



P01	26/10/2020	AMENDMENTS TO RED LINE BOUNDARY	PC	EC	MM
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER  
**SWECO**

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**GallifordTry**

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**highways england**

PROJECT TITLE  
A7 BLOFIELD TO NORTH BURLINGHAM

PROJECT STAGE  
PCF STAGE 3

DRAWING TITLE  
FIGURE 15.1 - CUMULATIVE EFFECTS  
TR010040/APP/6.3

SUITABILITY  
FOR INFORMATION

SHEET SIZE	SCALE	STATUS
A3	1:200,000	S2

DRAWING NUMBER  
HE551490-GTY-EGN-000-DR-GI-30004

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