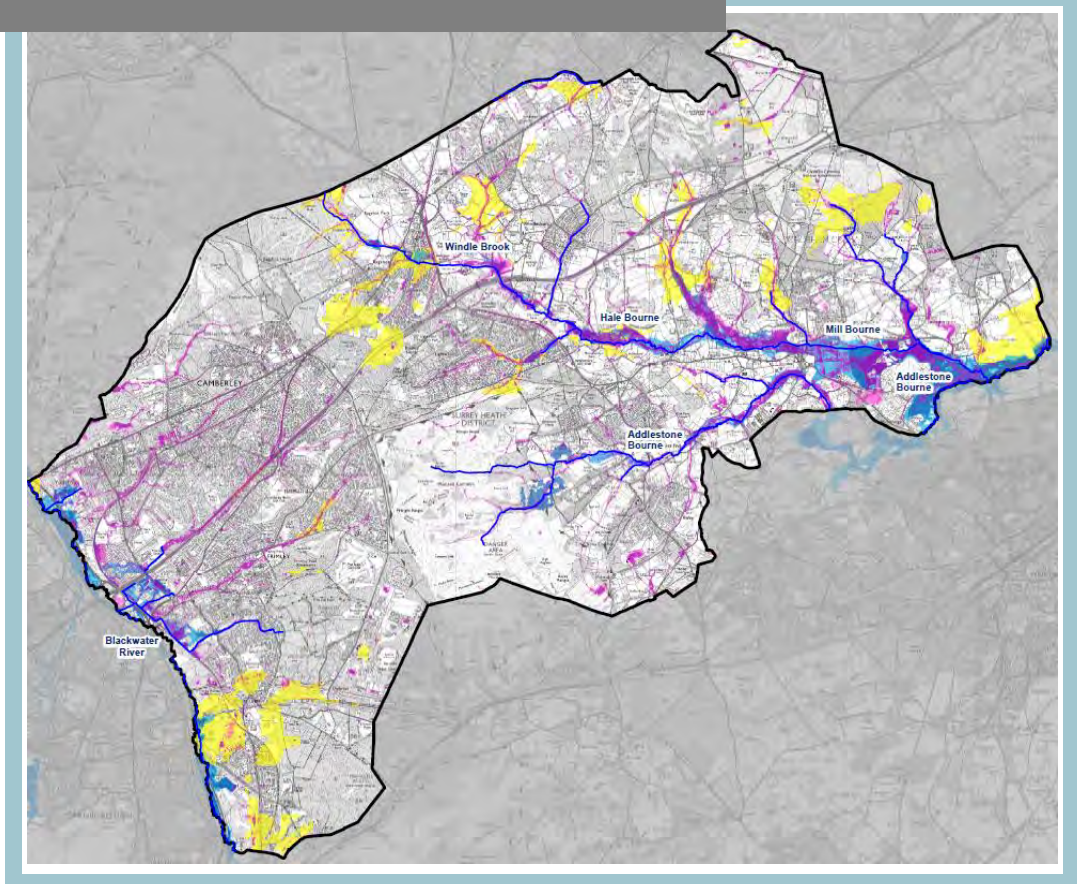

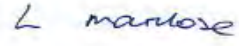



Surrey Heath Borough Council Strategic Flood Risk Assessment Volume 3 SFRA Maps

October 2015



Quality Management

Job No	CS074594		
Project	Surrey Heath Borough Council SFRA Update		
Location	P:\environment\ZWET\CS078748_Woking_SurreyHeath_SFRA\Reports and Outputs\SurreyHeath		
Title	Volume 3 – SFRA Maps		
Document Ref	Surrey Heath Borough Council SFRA Report Volume 3 SFRA Maps	Issue / Revision	Final
Date	October 2015		
Prepared by 2	Hayley Todd	Signature (for file)	
Checked by	Louise Markose	Signature (for file)	
Authorised by	Kerry Foster	Signature (for file)	

Revision Status / History

Rev	Date	Issue / Purpose/ Comment	Prepared	Checked	Authorised
1	March 2015	Draft for Submission to SHBC and Environment Agency	CJ	LM	MA
2	July 2015	Final Draft for Submission to SHBC and Environment Agency	HT	LM	KF
3	October 2015	Final Submission	GA	LM	KF

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Figure series 6 – Historical Fluvial Flooding

Figure series 7 – Environment Agency Flood Maps for Planning

Figure series 8 – Surface Water Flood Risk

Figure series 9 – Infiltration SuDS Suitability Map

Figure series 10 – Preliminary Drainage Areas

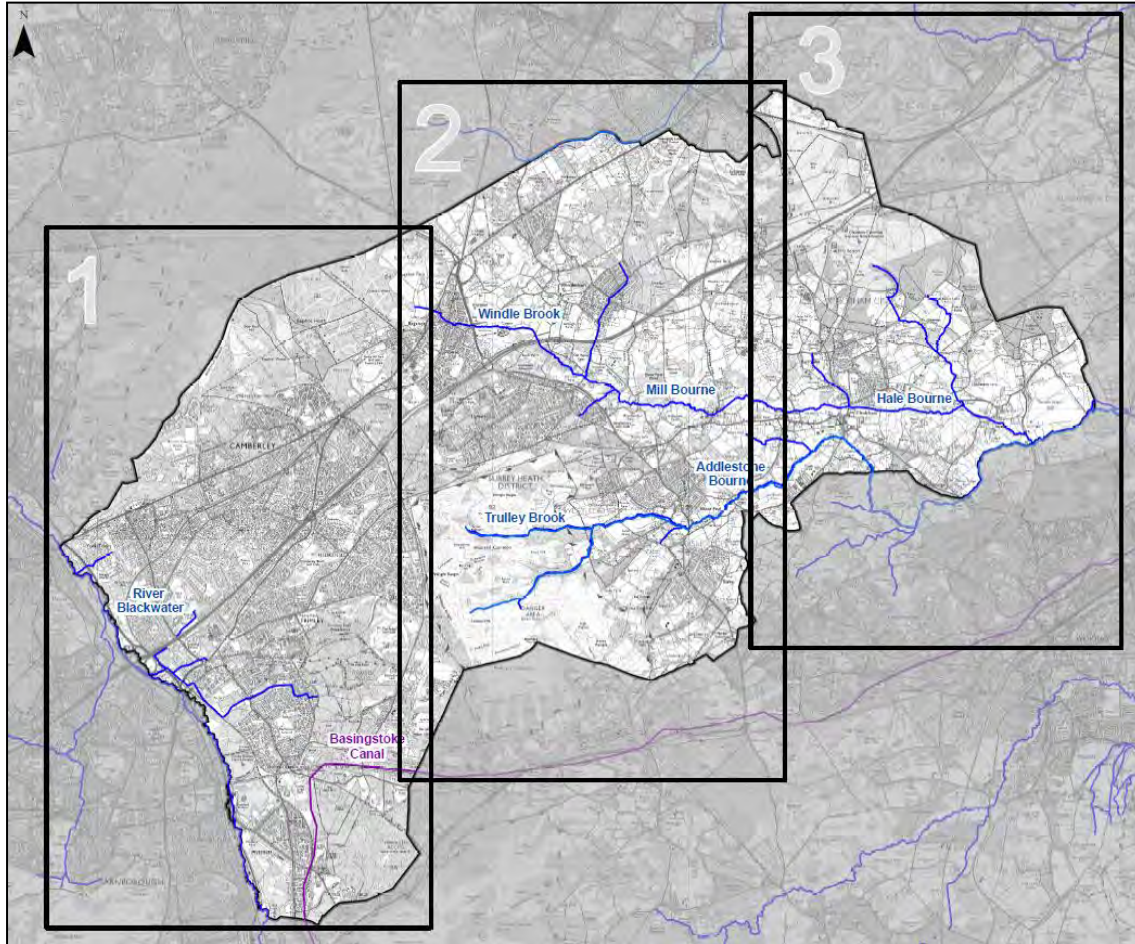
Figure series 11 – Historical Sewer Flooding Incidents

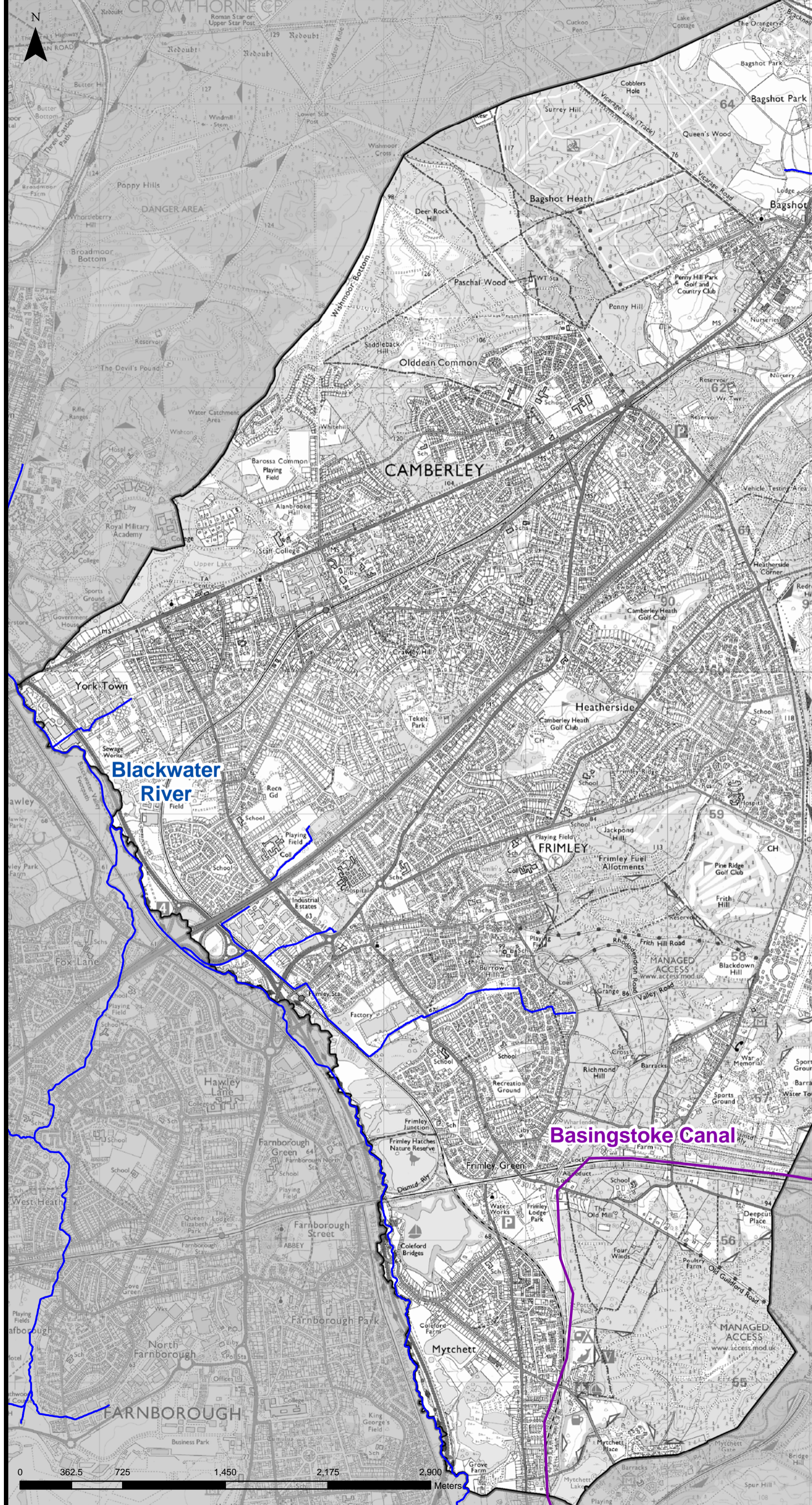
Figure series 12 – Susceptibility to Groundwater Flooding

Figure series 13 – Flood Risk from Artificial Sources

Figure series 14 – Areas at High Risk of Flooding

Figure Series Key Plan

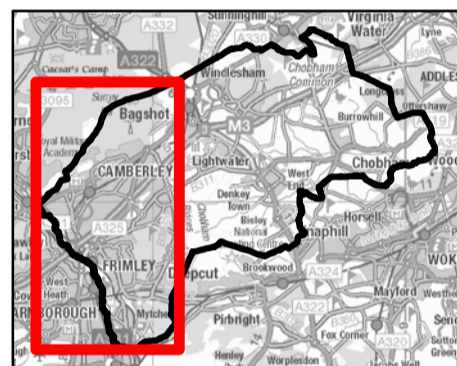




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Legend

- Main Rivers
- Basingstoke Canal
- Borough Administrative Boundary



Surrey Heath SFRA



Scale at A3
1:26,000

Drawn by
HT

Date
June 2015

Approved by
LM

**Figure 1.1
Study Area**

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CAPITA

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London
EC2V 7NQ

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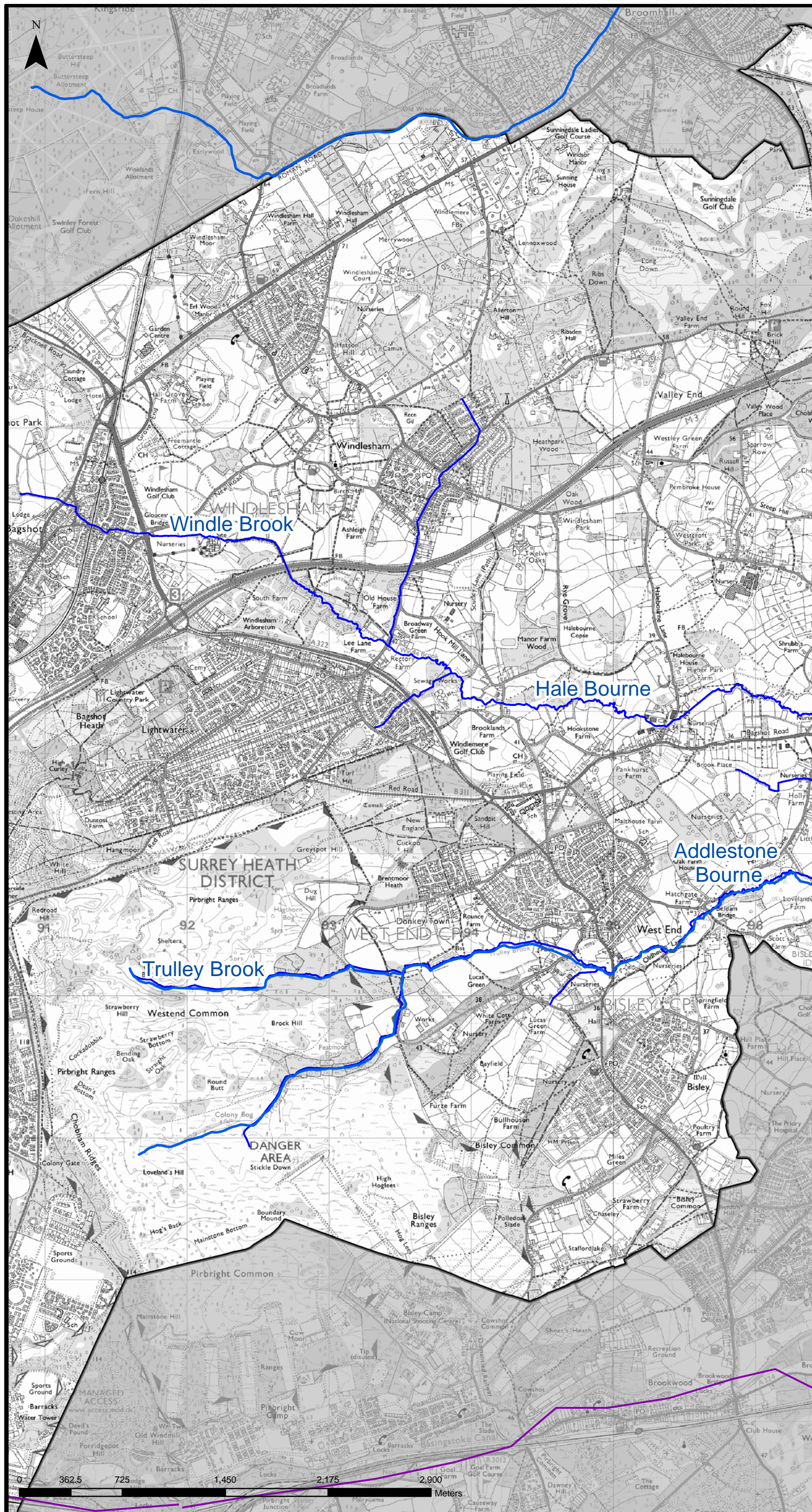
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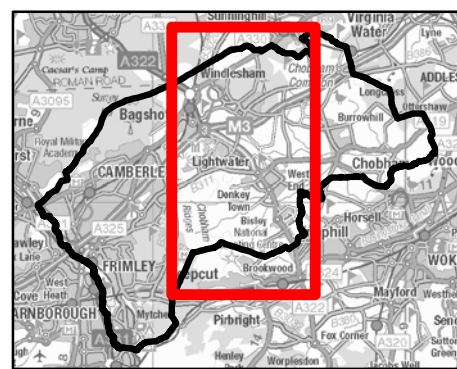
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Legend

- Basingstoke Canal
- Borough Administrative Boundary



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**Figure 1.2
Study Area**

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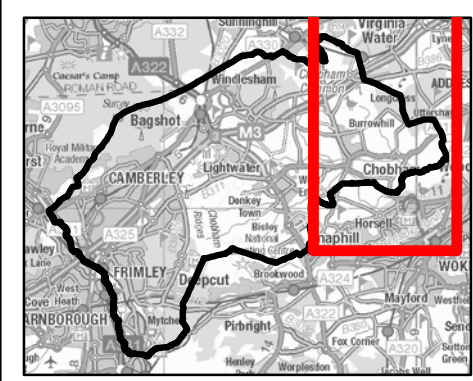
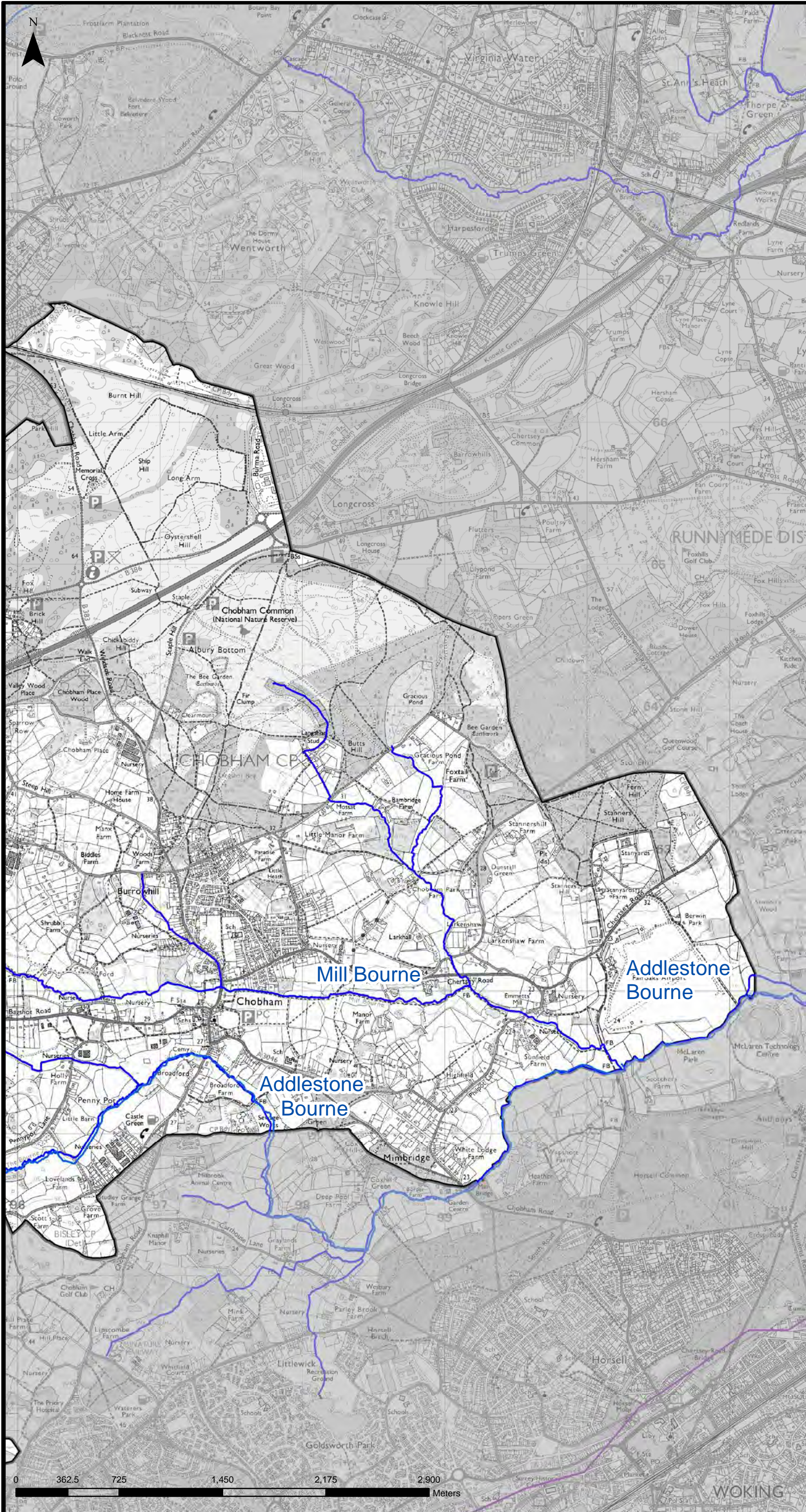
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Legend

-  Main Rivers
-  Borough Administrative Boundary



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**Figure 1.3
Study Area**

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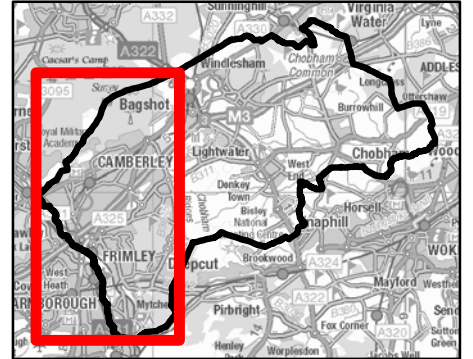
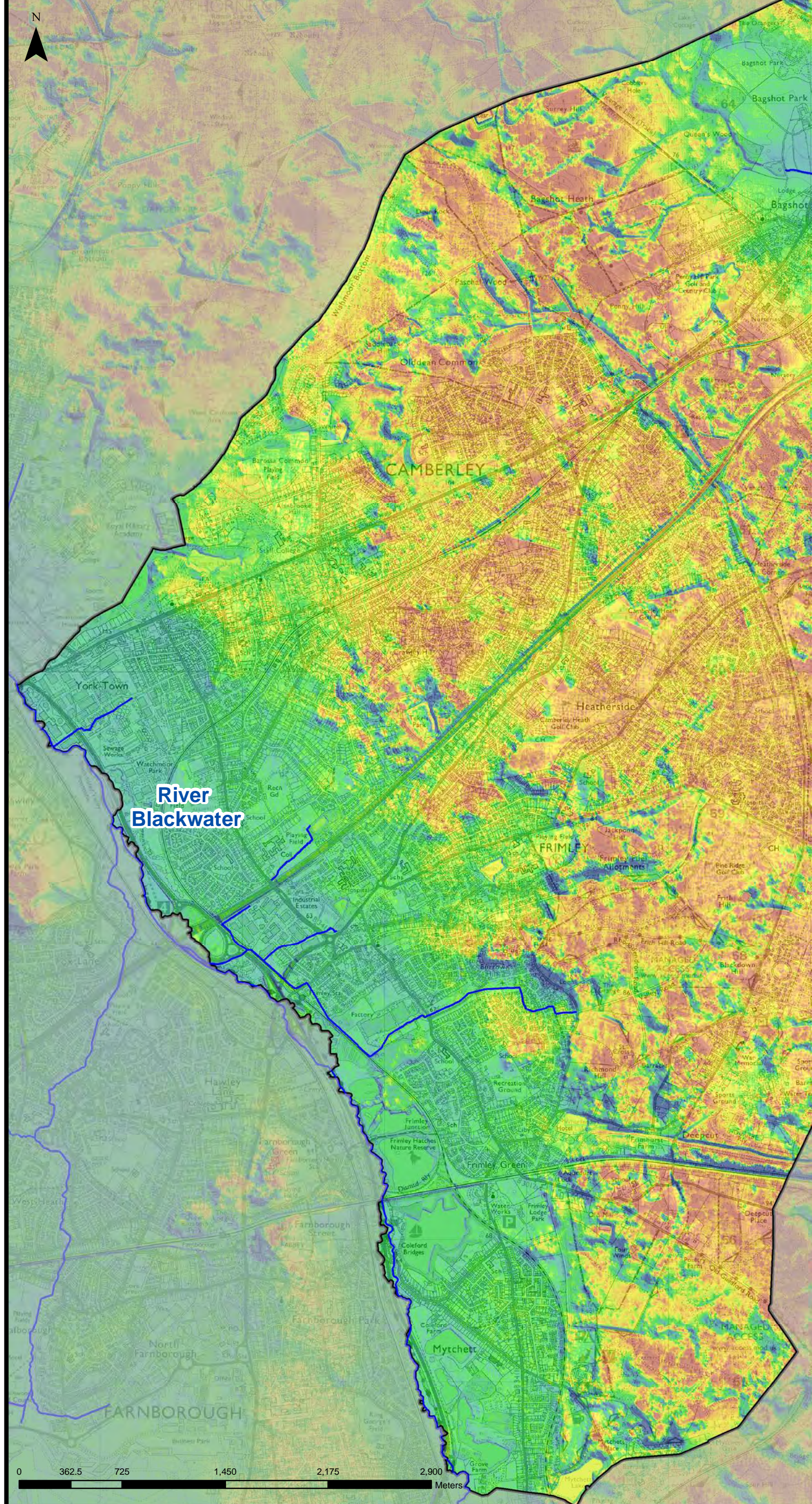
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Legend

-  Main Rivers
-  Borough Administrative Boundary
- Value**
-  High : 255
- Low : 0



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Date June 2015	Approved by LM

**Figure 2.1
Topography**

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EC2V 7NQ

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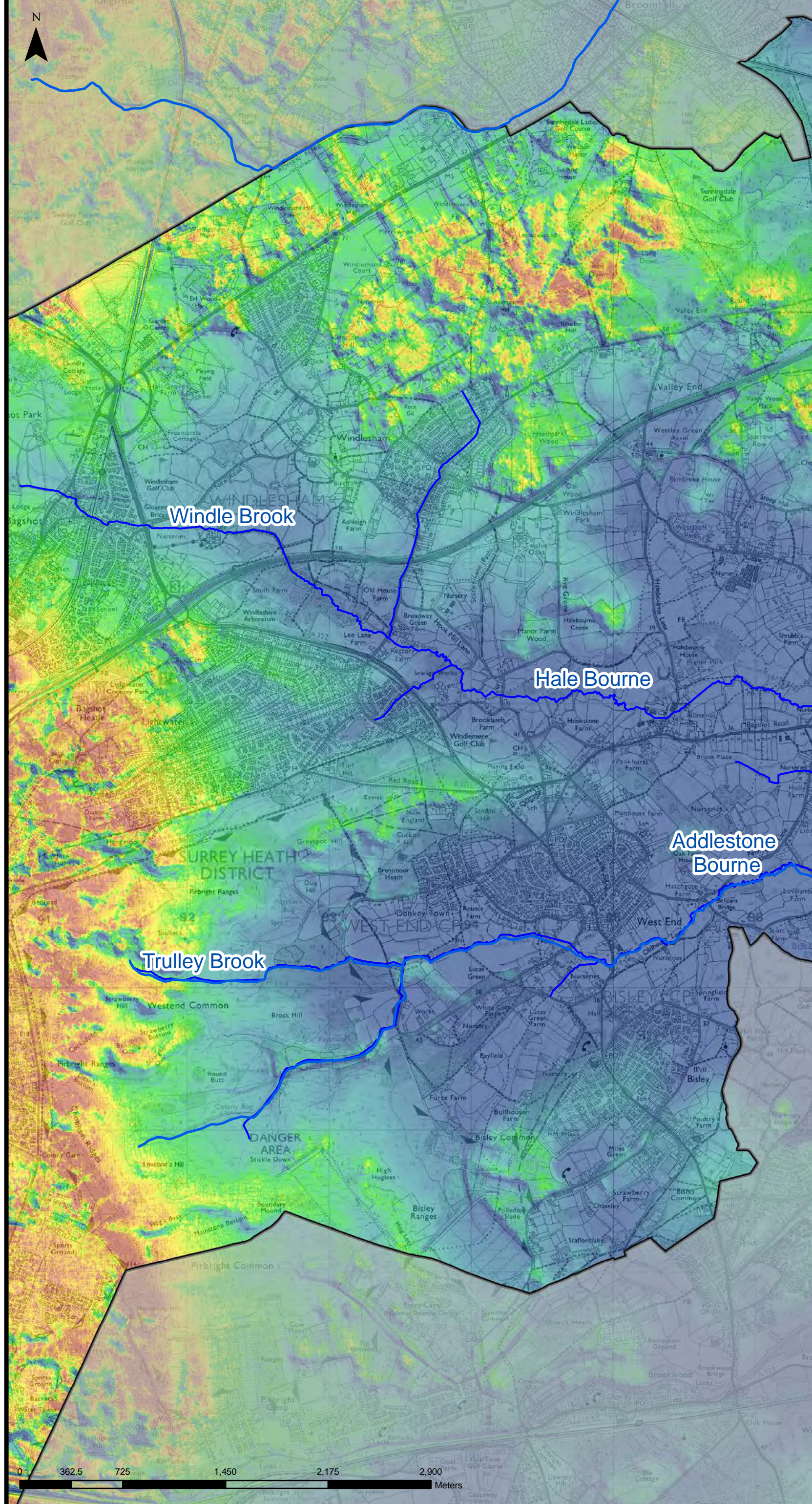
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Legend

-  Main Rivers
-  Borough Administrative Boundary
- Value**
-  High : 255
-  Low : 0



Surrey Heath SFRA



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Date June 2015	Approved by LM

**Figure 2.2
Topography**

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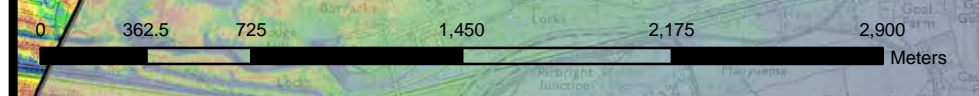
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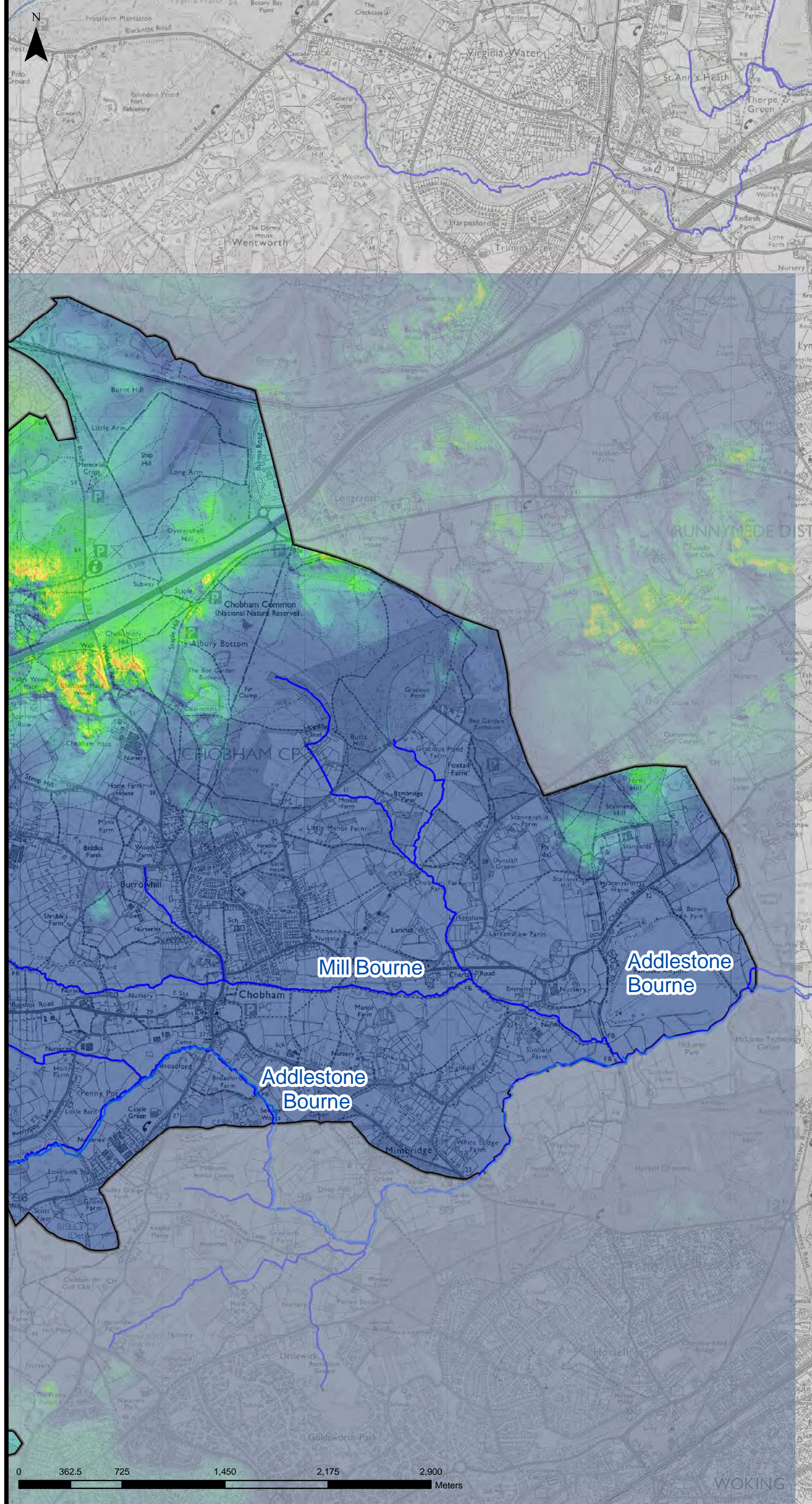
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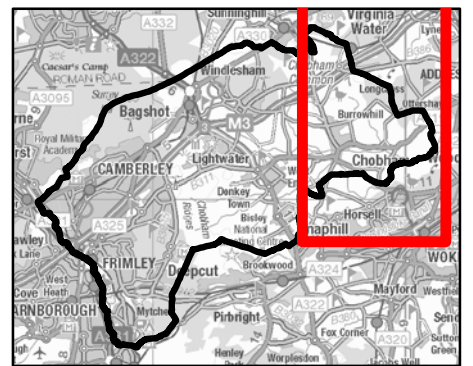
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Legend

-  Main Rivers
-  Borough Administrative Boundary
- Value**
-  High : 255
- Low : 0



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**Figure 2.3
Topography**

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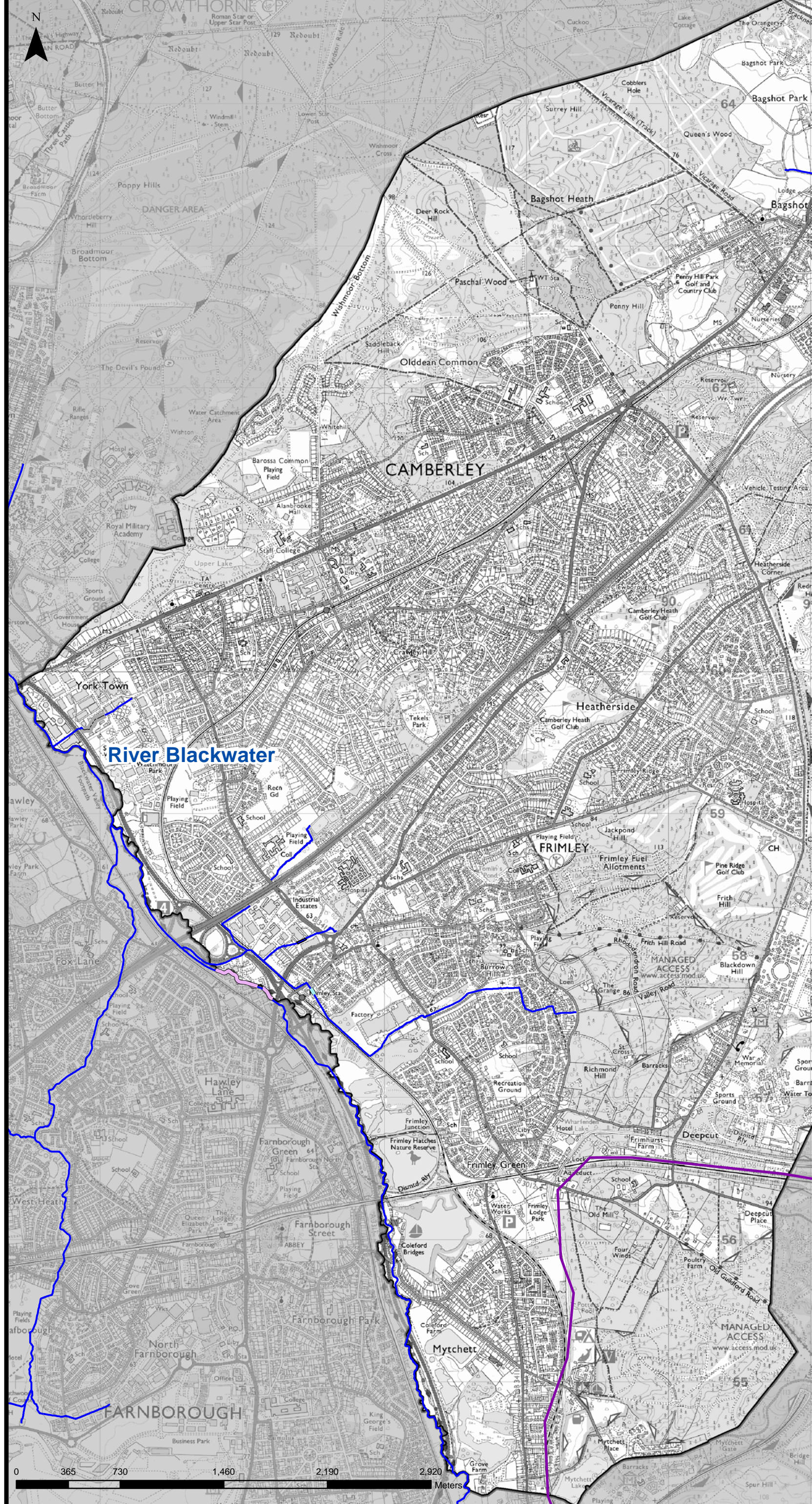
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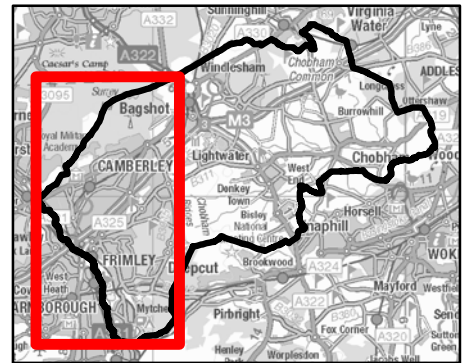
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Legend

- Main Rivers
- Basingstoke Canal
- Borough Administrative Boundary
- AIMS Defences**
- Engineered channel
- Gabion bank protection.
- Raised Wall
- Two-stage Channel



Surrey Heath SFRA



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Date July 2015	Approved by LM

**Figure 3.1
Defences**

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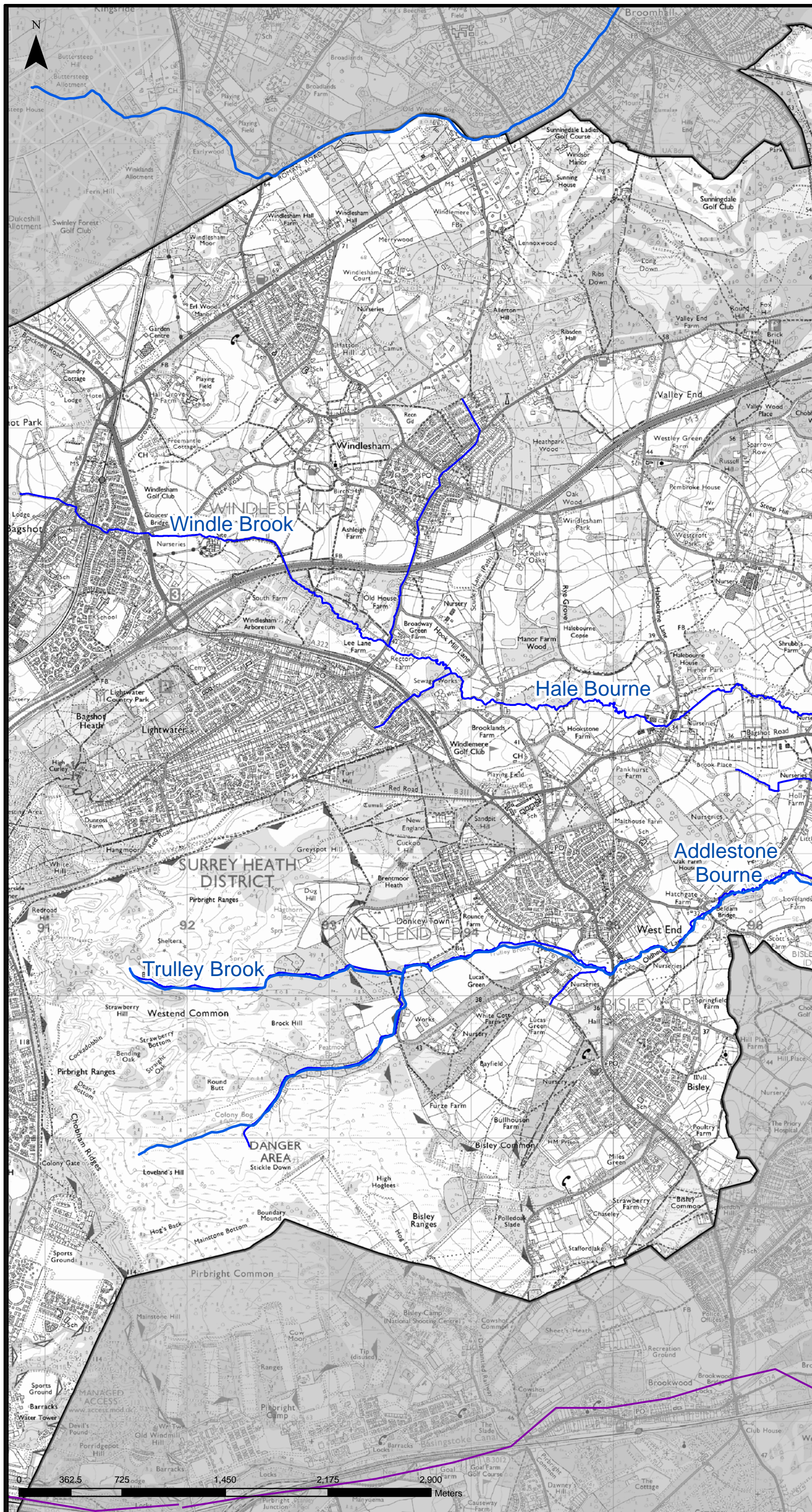
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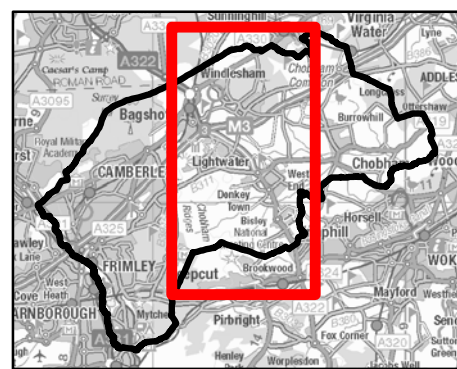
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Legend

-  Basingstoke Canal
-  Borough Administrative Boundary
- AIMS Defences**
-  Engineered channel
-  Gabion bank protection.
-  Raised Wall
-  Two-stage Channel



Surrey Heath SFRA



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**Figure 3.2
Defences**

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London
EC2V 7NQ

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CS078748/Fig3_2

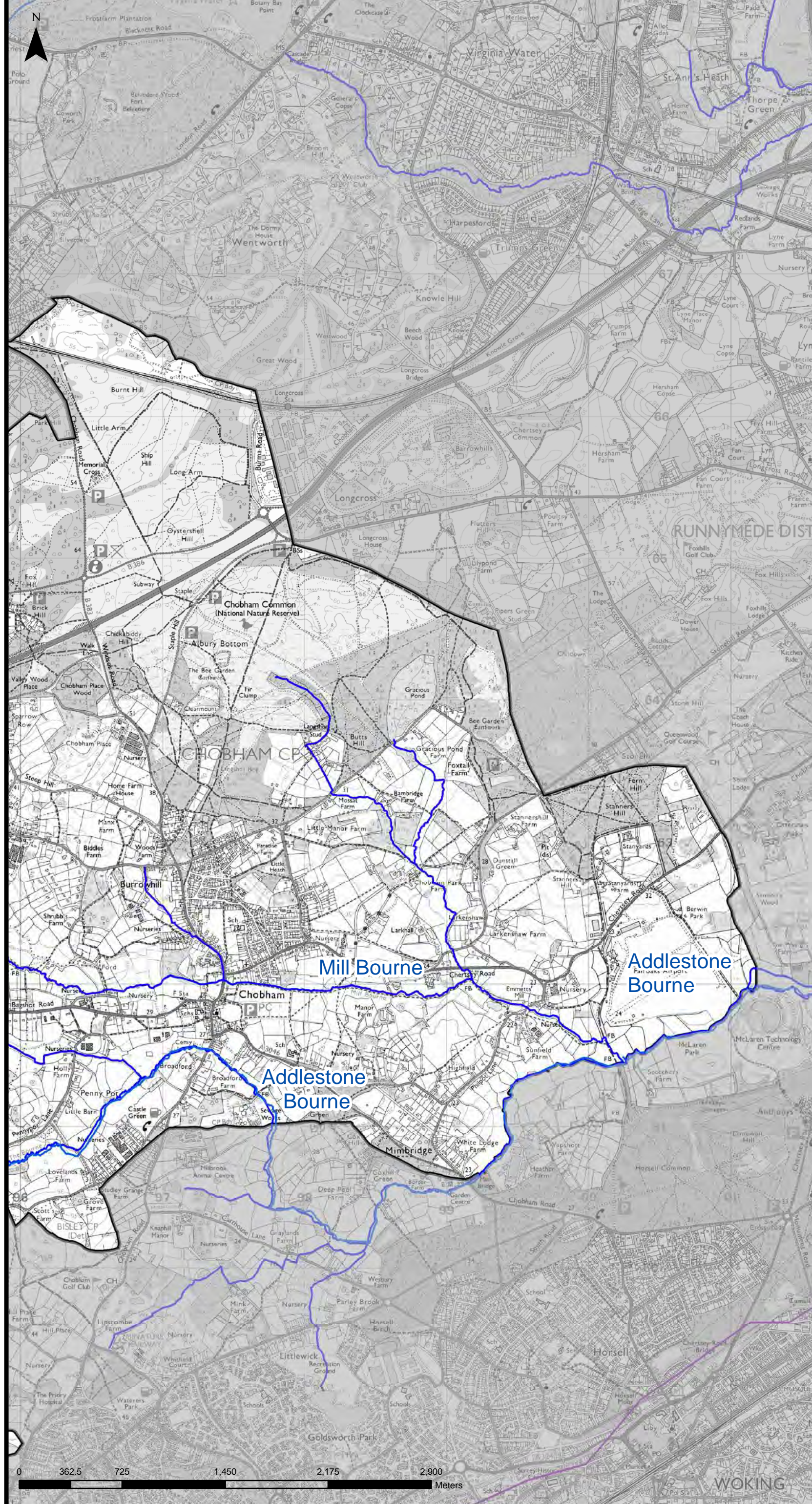
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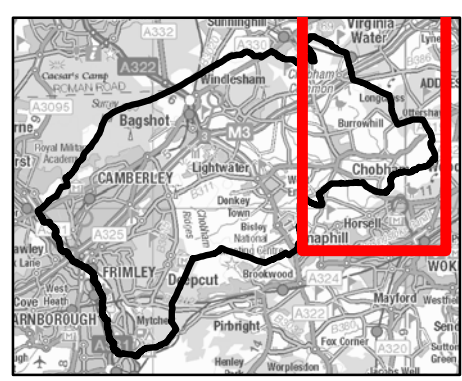
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- Legend**
- Main Rivers
 - Borough Administrative Boundary
 - AIMS Defences**
 - Engineered channel
 - Gabion bank protection.
 - Raised Wall
 - Two-stage Channel



Surrey Heath SFRA



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**Figure 3.3
Defences**

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EC2V 7NQ

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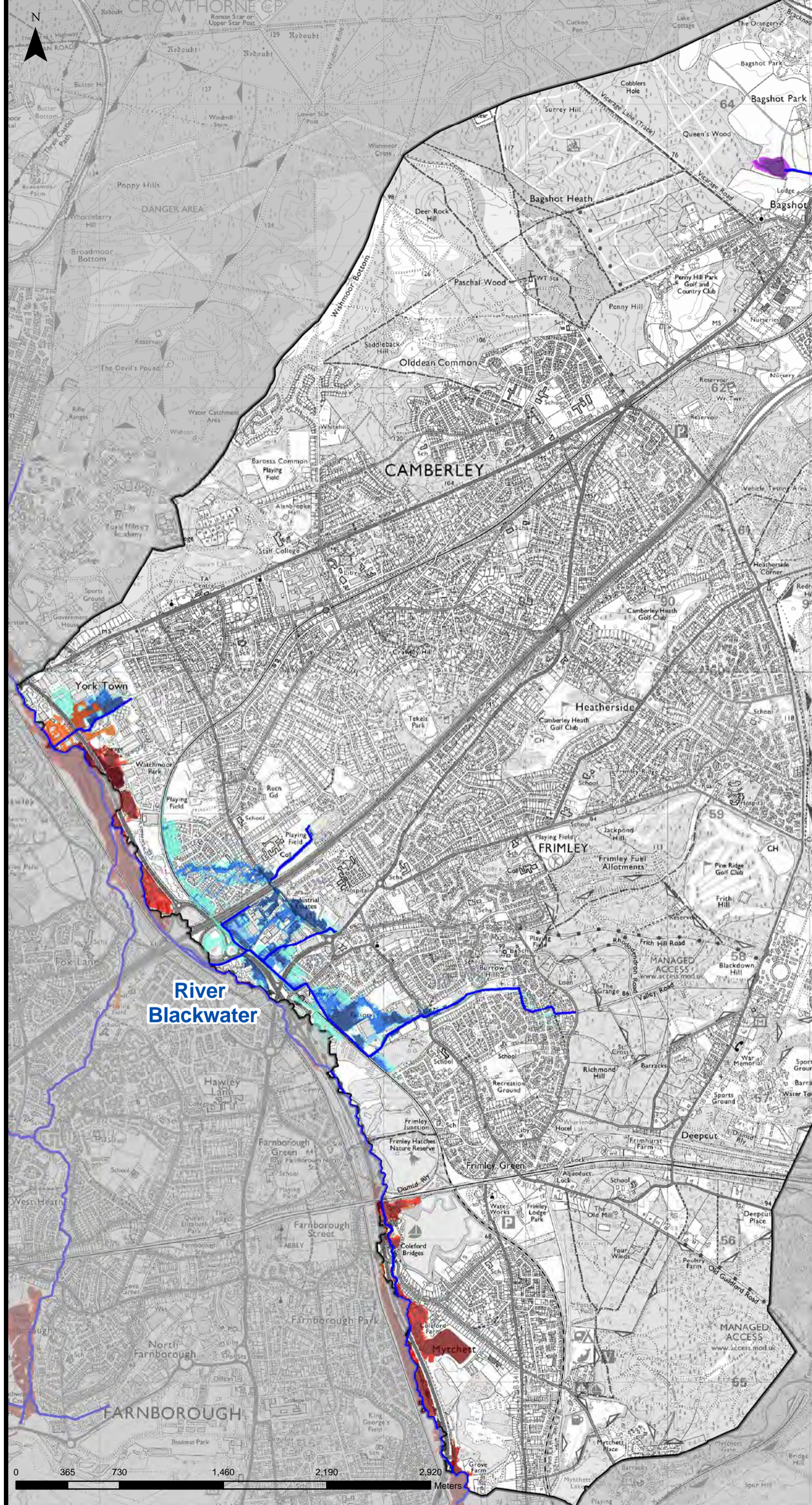
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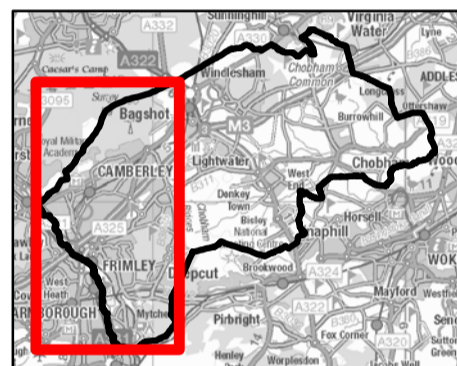




THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Main Rivers
- Borough Administrative Boundary
- Blackwater Tributaries (2014)**
- 5% AEP event
- 1% AEP event
- 1% AEP event +Climate Change
- 0.1% AEP event
- Blackwater (2007)**
- 5% AEP event
- 1% AEP event
- 1% AEP event +Climate Change



Surrey Heath SFRA



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1:26,000

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Date
June 2015

Approved by
LM

**Figure 4.1
Detailed Hydraulic
Modelling Flood Extents**

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London
EC2V 7NQ

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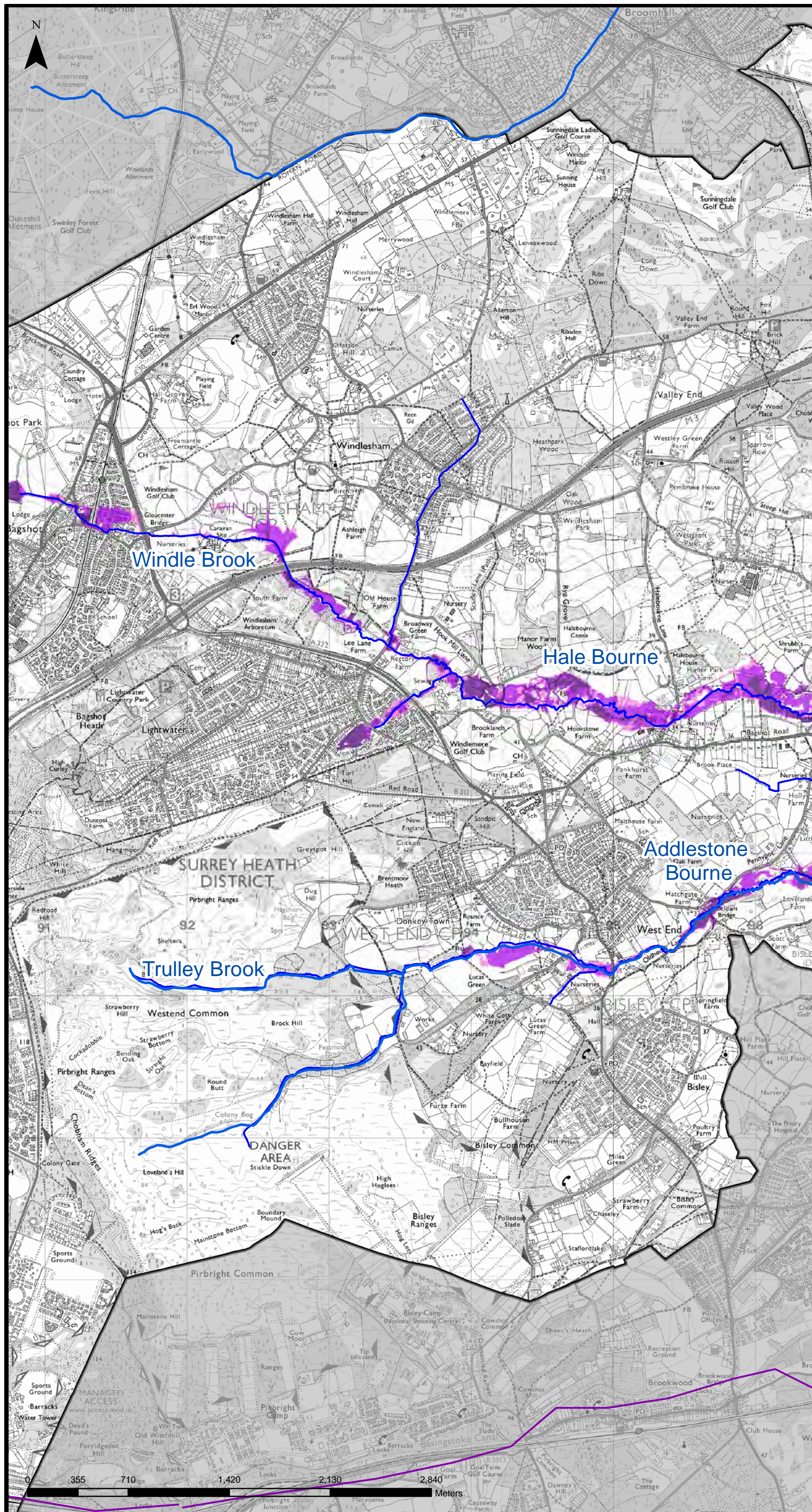
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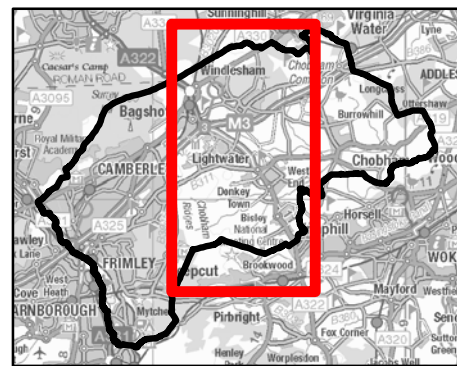
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Legend

-  Basingstoke Canal
-  Borough Administrative Boundary
- Addlestone Bourne (2007)**
-  5% AEP event
-  1% AEP event
-  1% AEP event +Climate Change



Surrey Heath SFRA



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Date June 2015	Approved by LM

**Figure 4.2
Detailed Hydraulic
Modelling Flood Extents**

Consultant

CAPITA

Capita
65 Gresham Street
London
EC2V 7NQ

DRAWING NUMBER CS078748/Fig_4_2	REV 1
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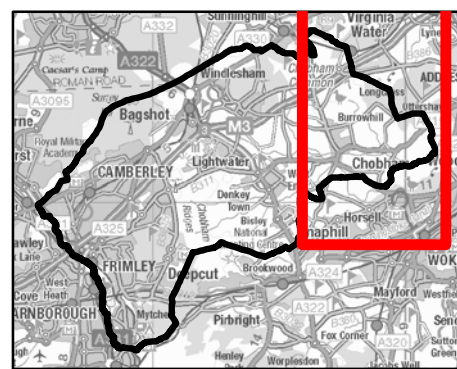
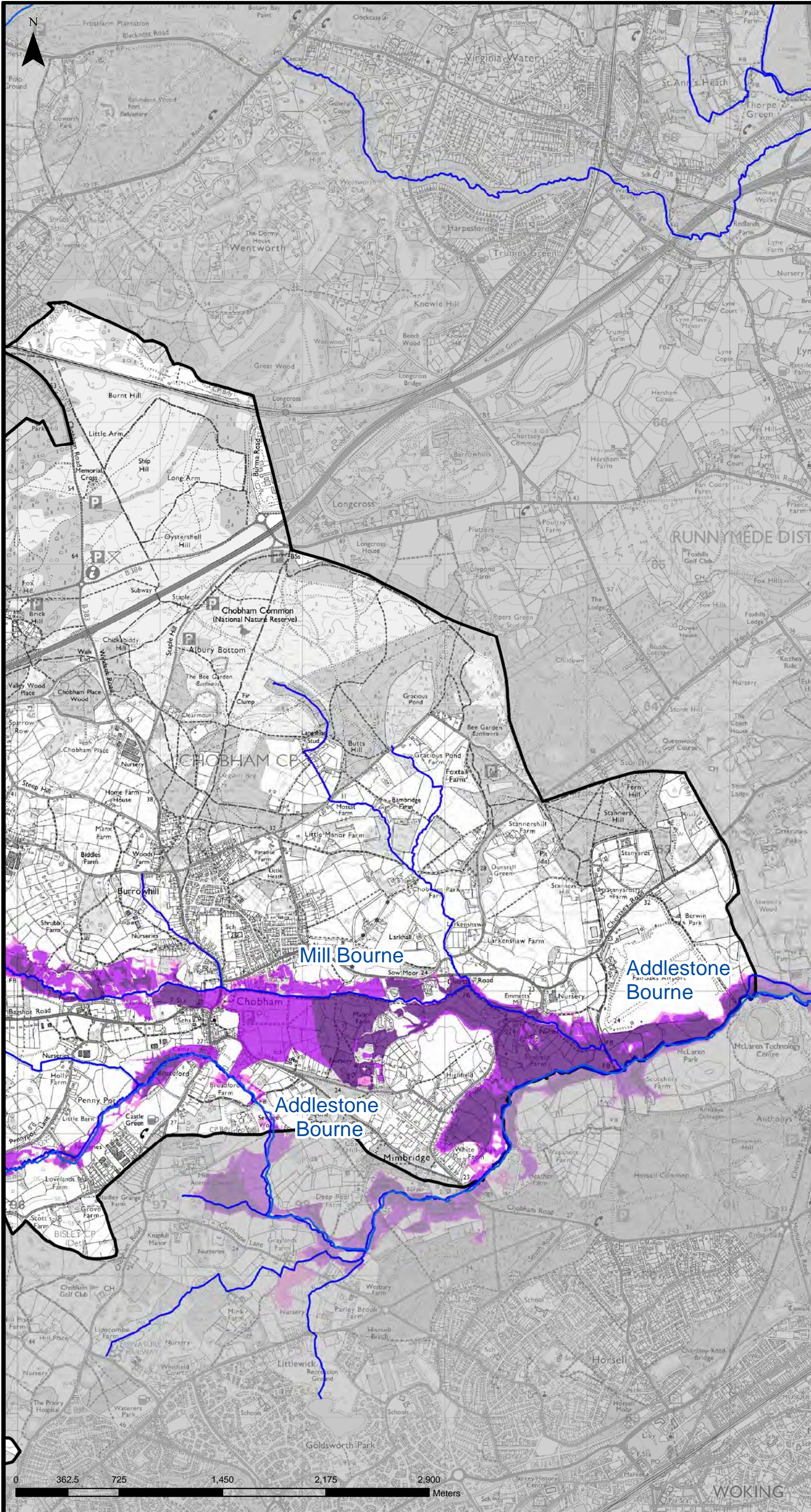
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Legend

-  Main Rivers
-  Borough Administrative Boundary
- Addlestone Bourne (2007)**
-  5% AEP event
-  1% AEP event
-  1% AEP event +Climate Change



Surrey Heath SFRA



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Date
February 2015

Approved by
LM

**Figure 4.3
Detailed Hydraulic
Modelling Flood Extents**

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EC2V 7NQ

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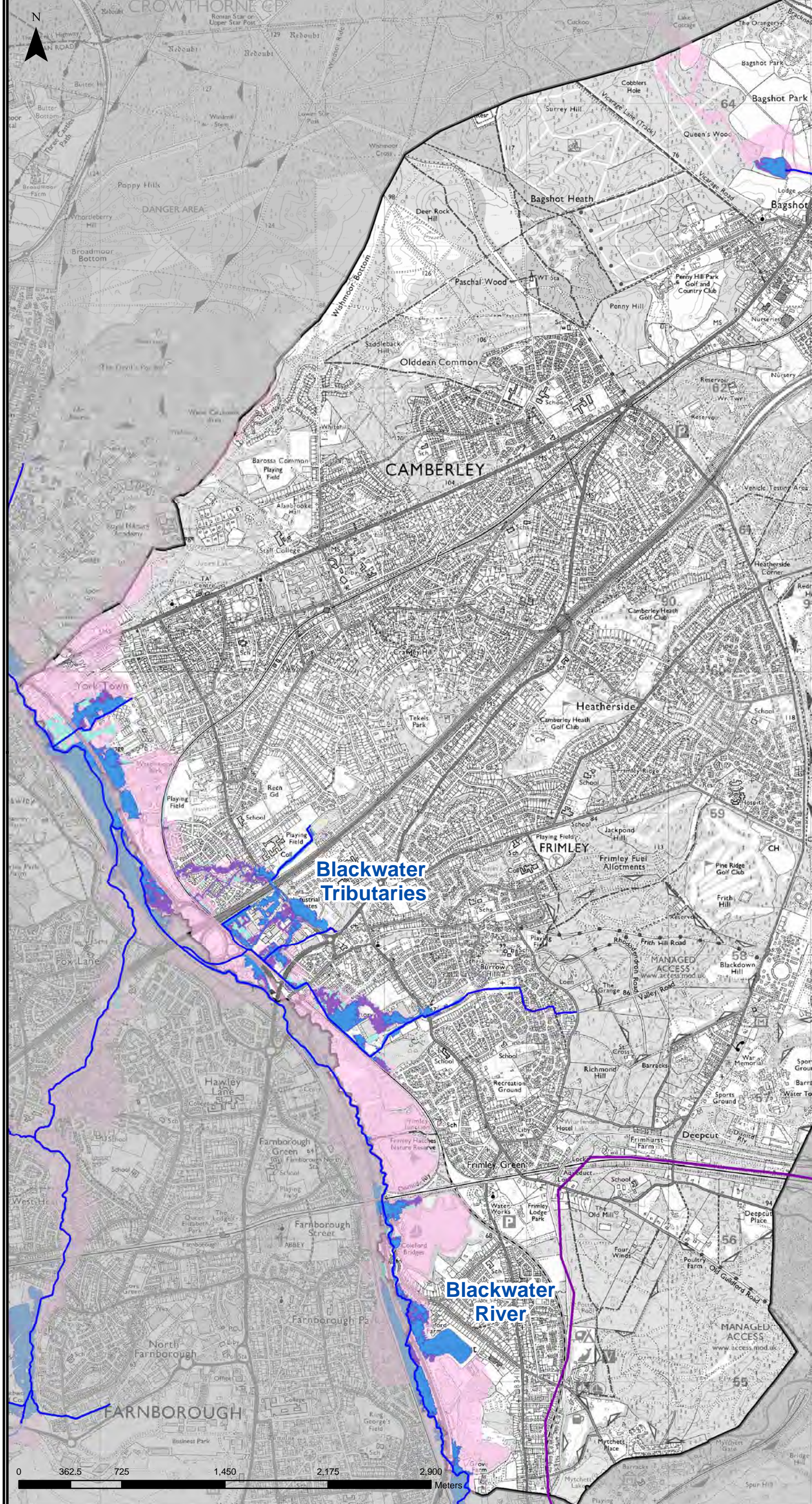
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Legend

- Main Rivers
- Basingstoke Canal
- Borough Administrative Boundary
- Flood Zone 3b

Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 20 year modelled event

Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3

Flood Zone 3a

Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 100 year modelled event

Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3

Flood Zone 3 Inc. Climate Change

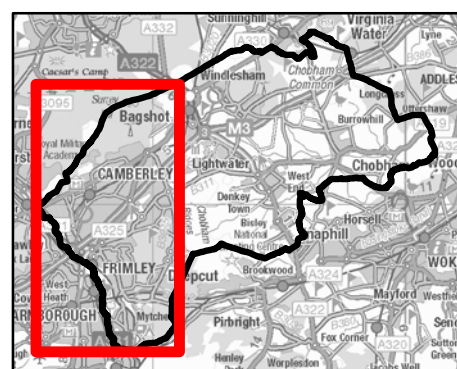
Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 100 year + Climate Change modelled event

Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3

Flood Zone 2

Along watercourses where hydraulic modelling has been completed (Blackwater tribs***) = 1 in 1000 year modelled event

Along watercourses where modelling has not been completed (Addlestone Bourne, Mill Bourne, Addlestone Bourne tribs and the Blackwater) = EA Flood Zone 2



Surrey Heath SFRA



Scale at A3
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Date
June 2015

Approved by
LM

**Figure 5.1
SFRA Flood Zones**

Consultant

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Capita
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London
EC2V 7NQ

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CS078748/Fig_5_1

REV
1

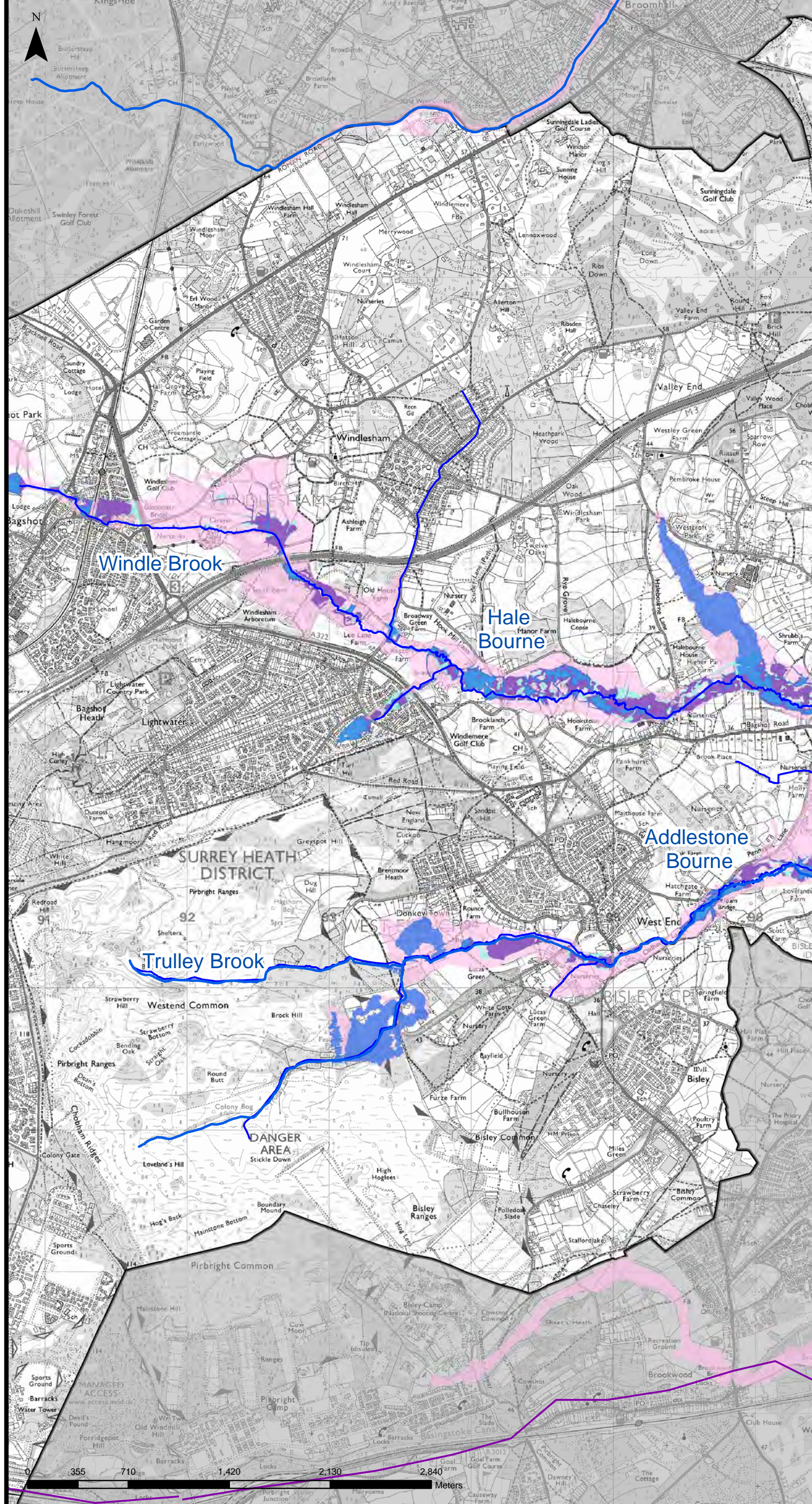
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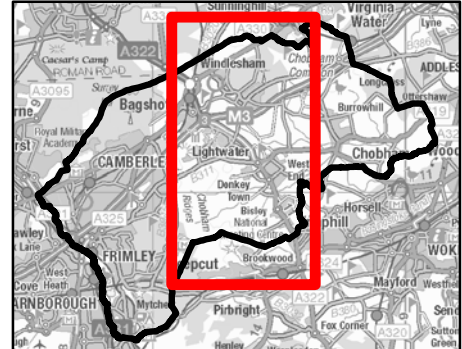


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Legend

- Main Rivers
 - Borough Administrative Boundary
 - Flood Zone 3b
- Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 20 year modelled event*
- Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3*
- Flood Zone 3a
- Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 100 year modelled event*
- Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3*

- Flood Zone 3 Inc. Climate Change
- Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 100 year + Climate Change modelled event*
- Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3*
- Flood Zone 2
- Along watercourses where hydraulic modelling has been completed (Blackwater tribs***) = 1 in 1000 year modelled event*
- Along watercourses where modelling has not been completed (Addlestone Bourne, Mill Bourne, Addlestone Bourne tribs and the Blackwater) = EA Flood Zone 2*



Surrey Heath SFRA



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Date June 2015	Approved by LM

**Figure 5.2
SFRA Flood Zones**

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London
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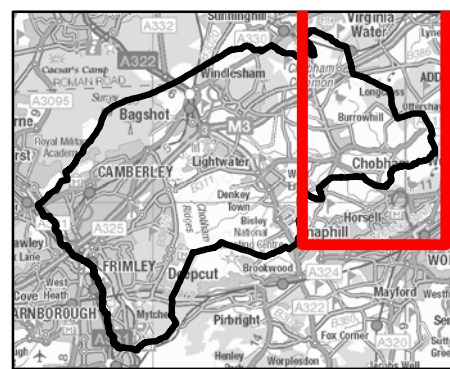
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Legend

-  Main Rivers
-  Borough Administrative Boundary
-  Flood Zone 3b
 Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 20 year modelled event
 Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3
-  Flood Zone 3a
 Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 100 year modelled event
 Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3
-  Flood Zone 3 Inc. Climate Change
 Along watercourses where hydraulic modelling has been completed (Addlestone Bourne, Mill Bourne, Blackwater and the Blackwater tribs*) = 1 in 100 year + Climate Change modelled event
 Along watercourses where modelling has not been completed (Addlestone Bourne tribs**) = EA Flood Zone 3
-  Flood Zone 2
 Along watercourses where hydraulic modelling has been completed (Blackwater tribs***) = 1 in 1000 year modelled event
 Along watercourses where modelling has not been completed (Addlestone Bourne, Mill Bourne, Addlestone Bourne tribs and the Blackwater) = EA Flood Zone 2



Surrey Heath SFRA



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**Figure 5.3
SFRA Flood Zones**

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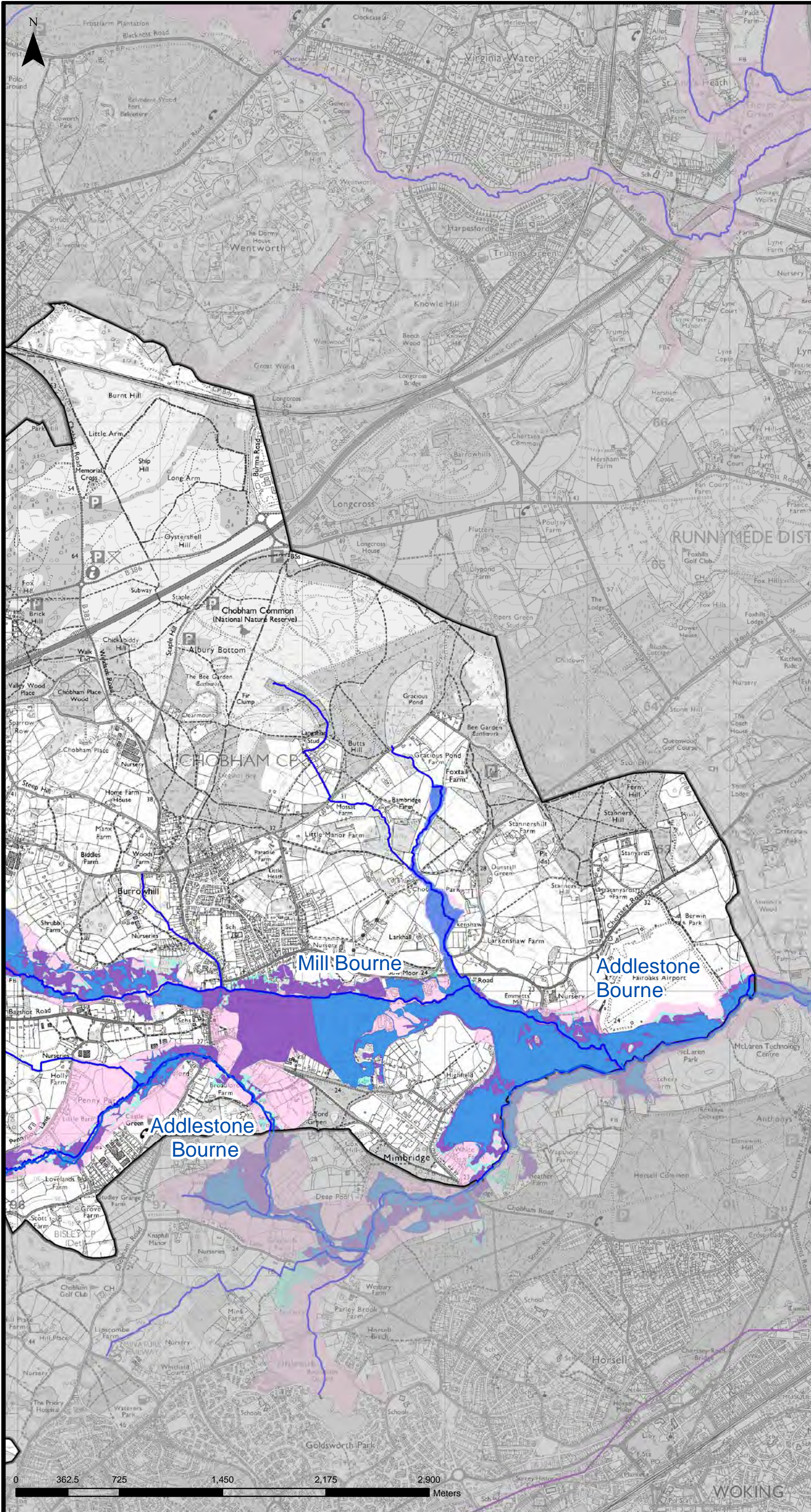
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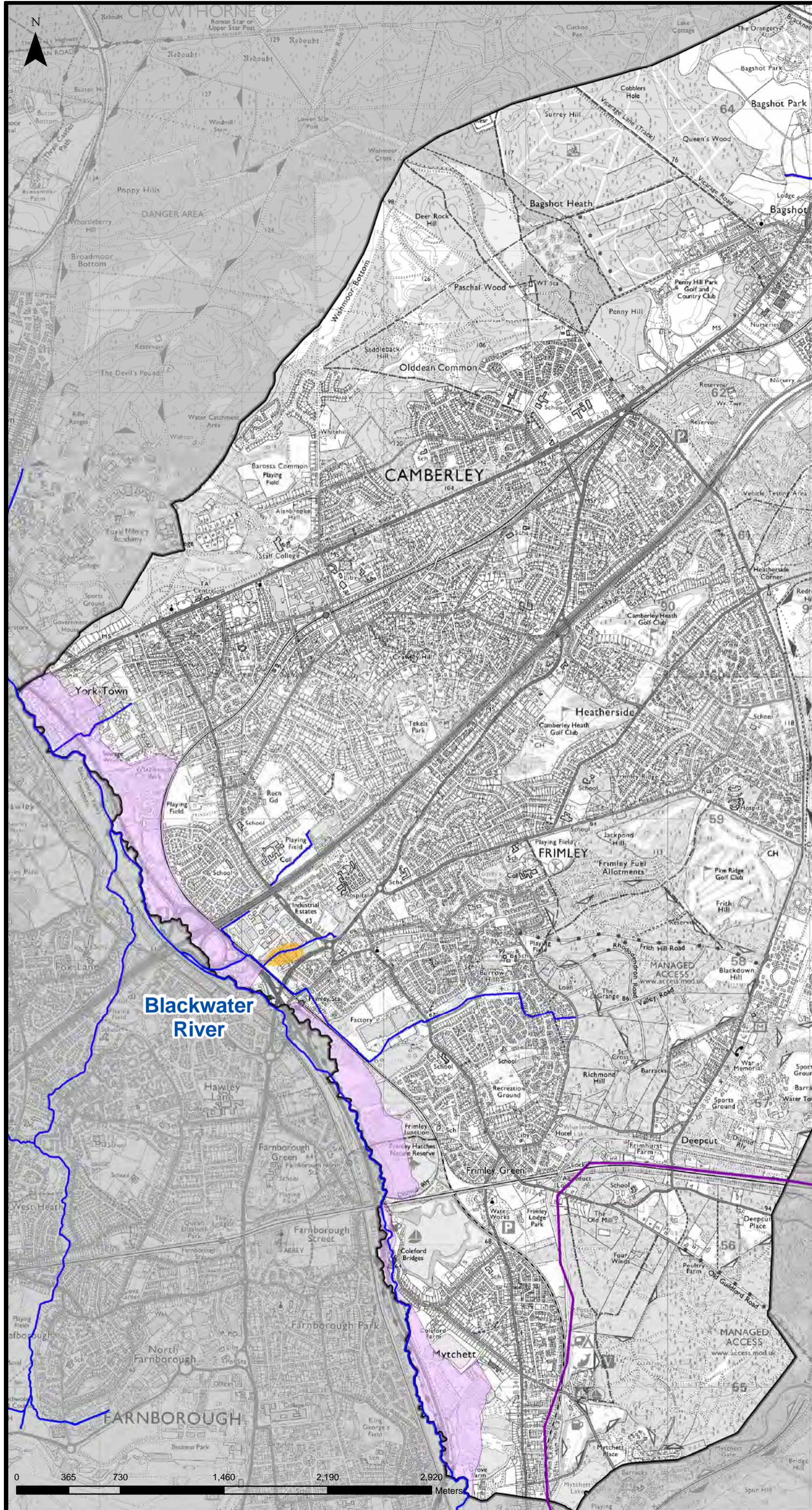
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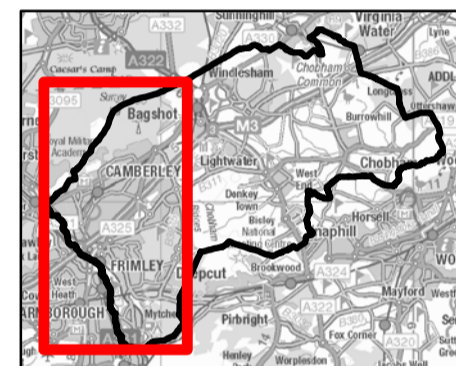
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Legend

- Main Rivers
- Basingstoke Canal
- Borough Administrative Boundary
- Flood Outlines post-2003*
- Recorded Flood Outlines****
- January 2003
- November 1974
- September 1968
- March 1947

*Approximate outline based on Surrey County Council property flooding database. Extents based on flood incidents in 2006, 2007, 2009 and 2013/14 that have been reported as having a fluvial main river source.

**Environment Agency dataset



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Date
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**Figure 6.1
Historical Fluvial Flooding**

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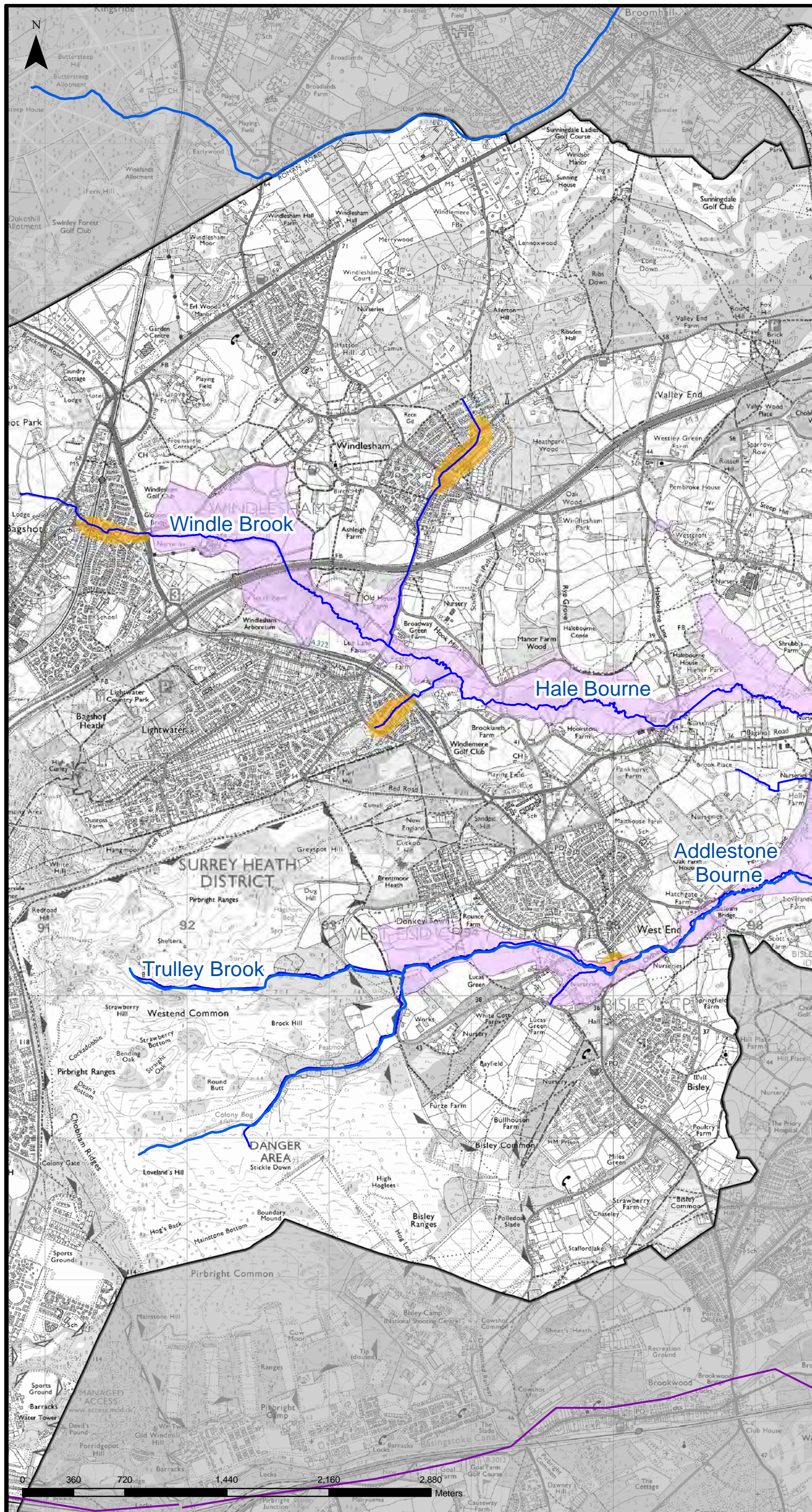
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0 365 730 1,460 2,190 2,920 Meters



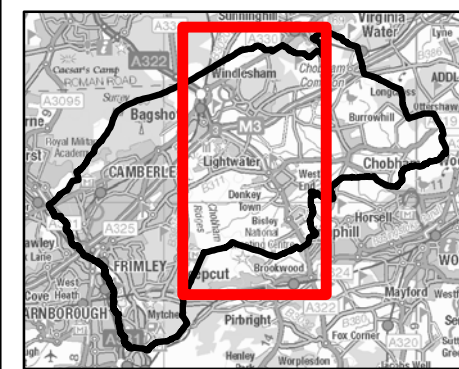
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Legend

-  Main Rivers
-  Borough Administrative Boundary
-  Flood Outlines post-2003*
- Recorded Flood Outlines****
-  January 2003
-  November 1974
-  September 1968
-  March 1947

*Approximate outline based on Surrey County Council property flooding database. Extents based on flood incidents in 2006, 2007, 2009 and 2013/14 that have been reported as having a fluvial main river source.

**Environment Agency dataset



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**Figure 6.2
Historical Fluvial Flooding**

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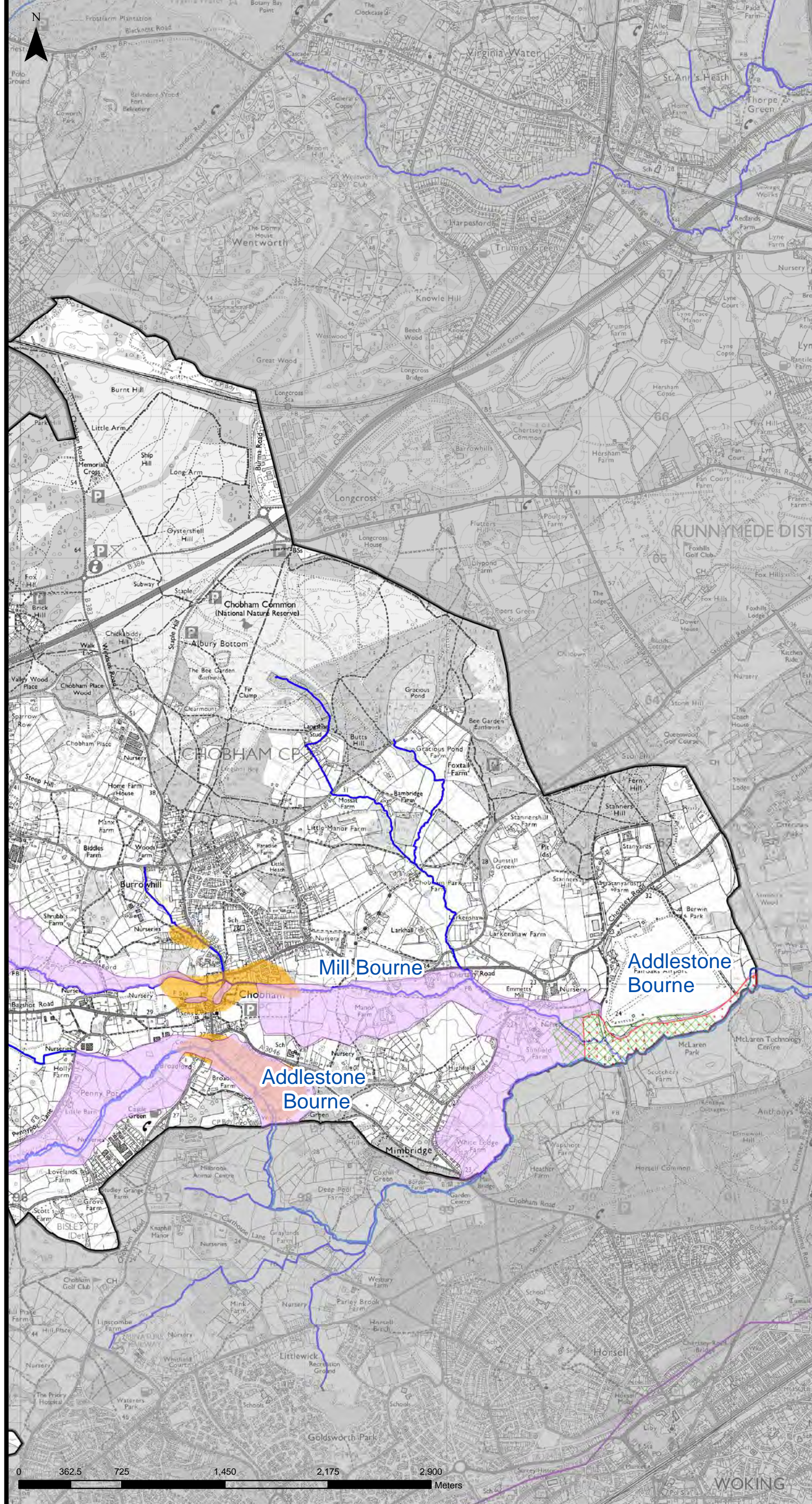
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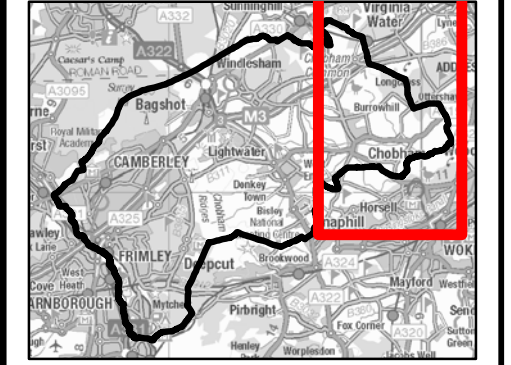
- Main Rivers
- Borough Administrative Boundary
- Flood Outlines post-2003*

Recorded Flood Outlines**

- January 2003
- November 1974
- September 1968
- March 1947

*Approximate outline based on Surrey County Council property flooding database. Extents based on flood incidents in 2006, 2007, 2009 and 2013/14 that have been reported as having a fluvial main river source.

**Environment Agency dataset



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Figure 6.3
Historical Fluvial Flooding

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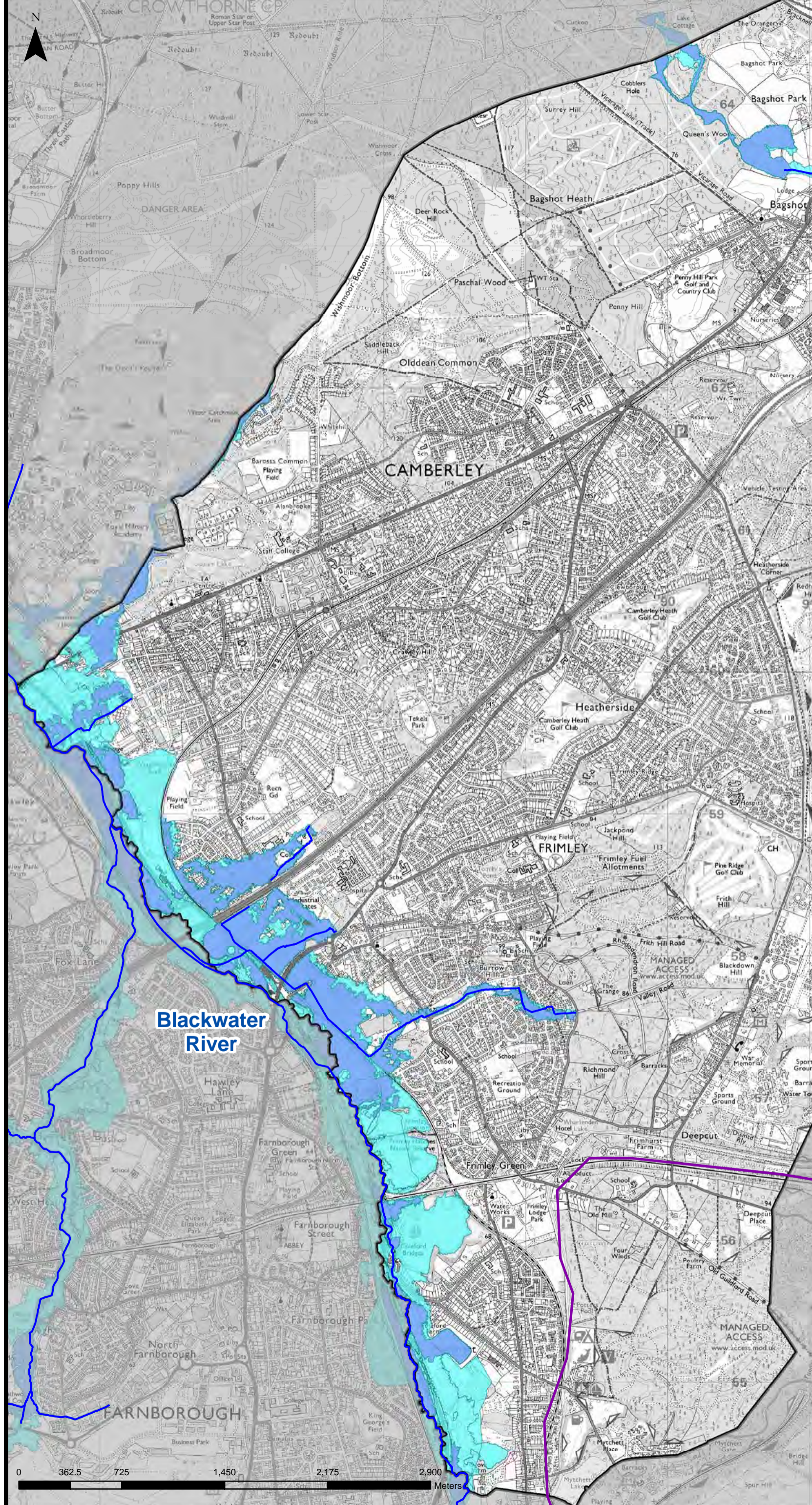
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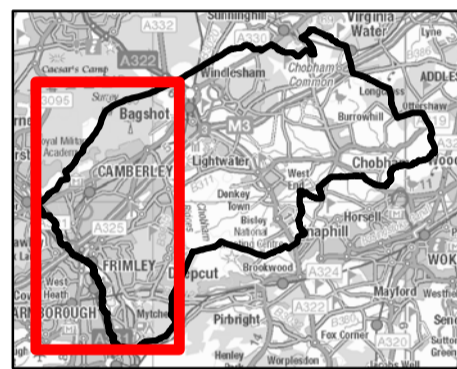
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Legend

- Main Rivers
- Basingstoke Canal
- Borough Administrative Boundary
- Environment Agency Flood Zone 3
- Environment Agency Flood Zone 2



Surrey Heath SFRA



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**Figure 7.1
Environment Agency
Flood Map for Planning**

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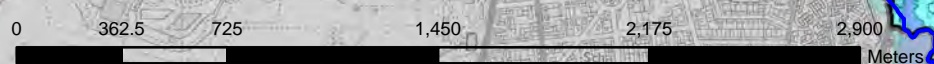
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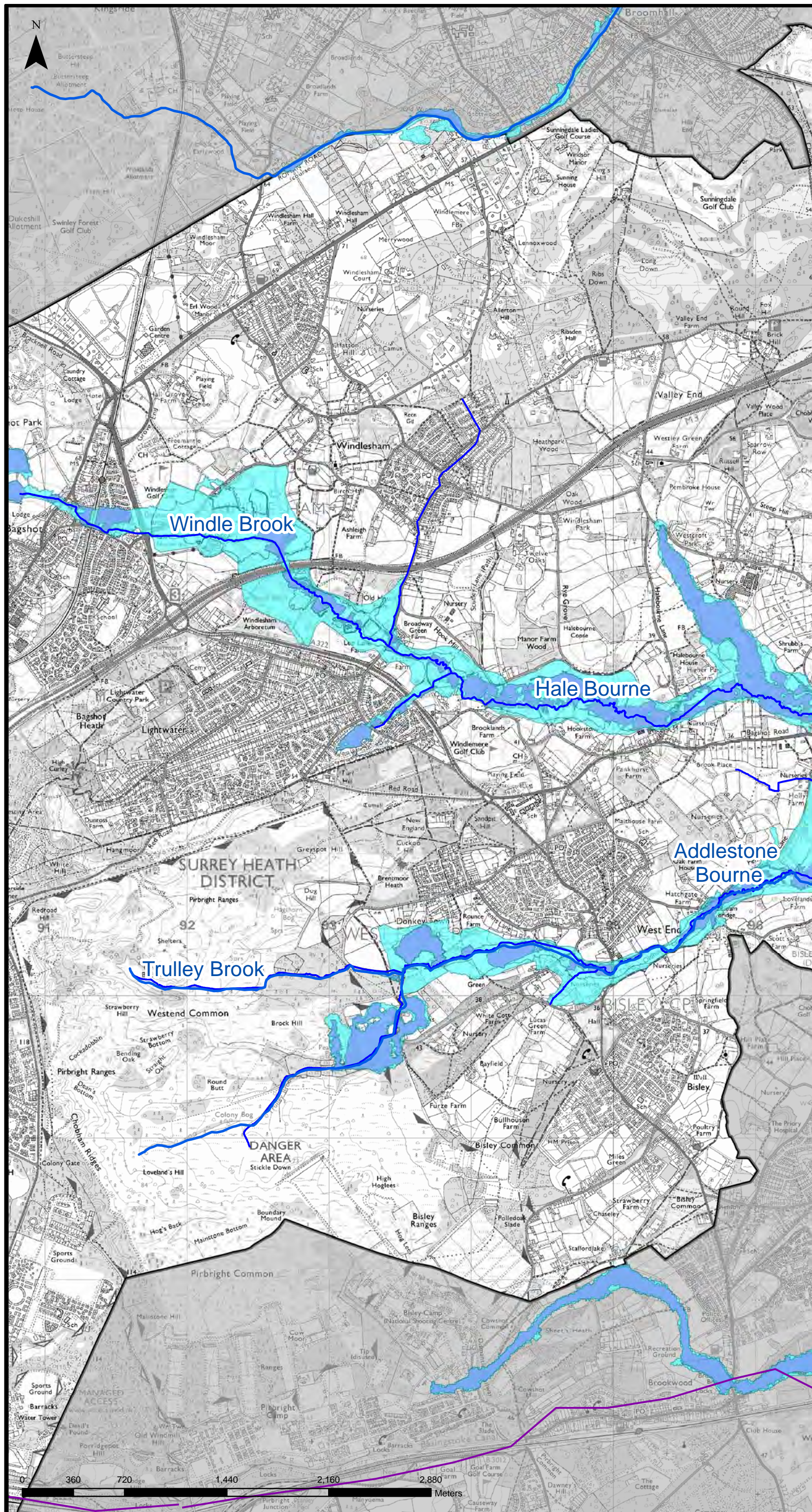
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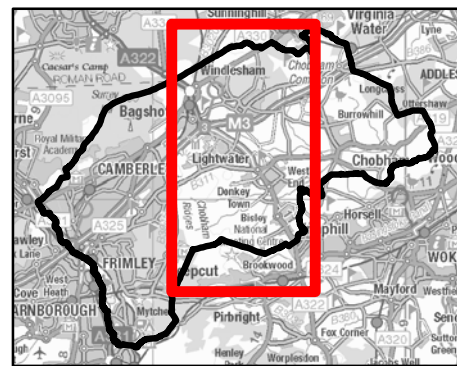




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Legend

- Main Rivers
- Basingstoke Canal
- Borough Administrative Boundary
- Environment Agency Flood Zone 3
- Environment Agency Flood Zone 2



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**Figure 7.2
Environment Agency
Flood Map for Planning**

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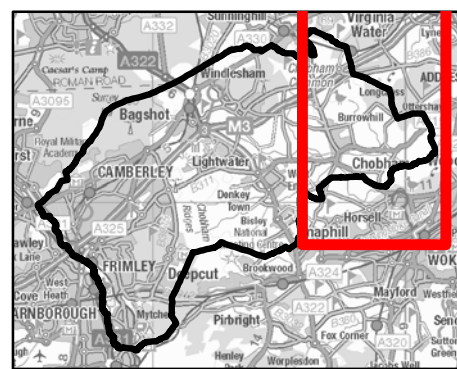
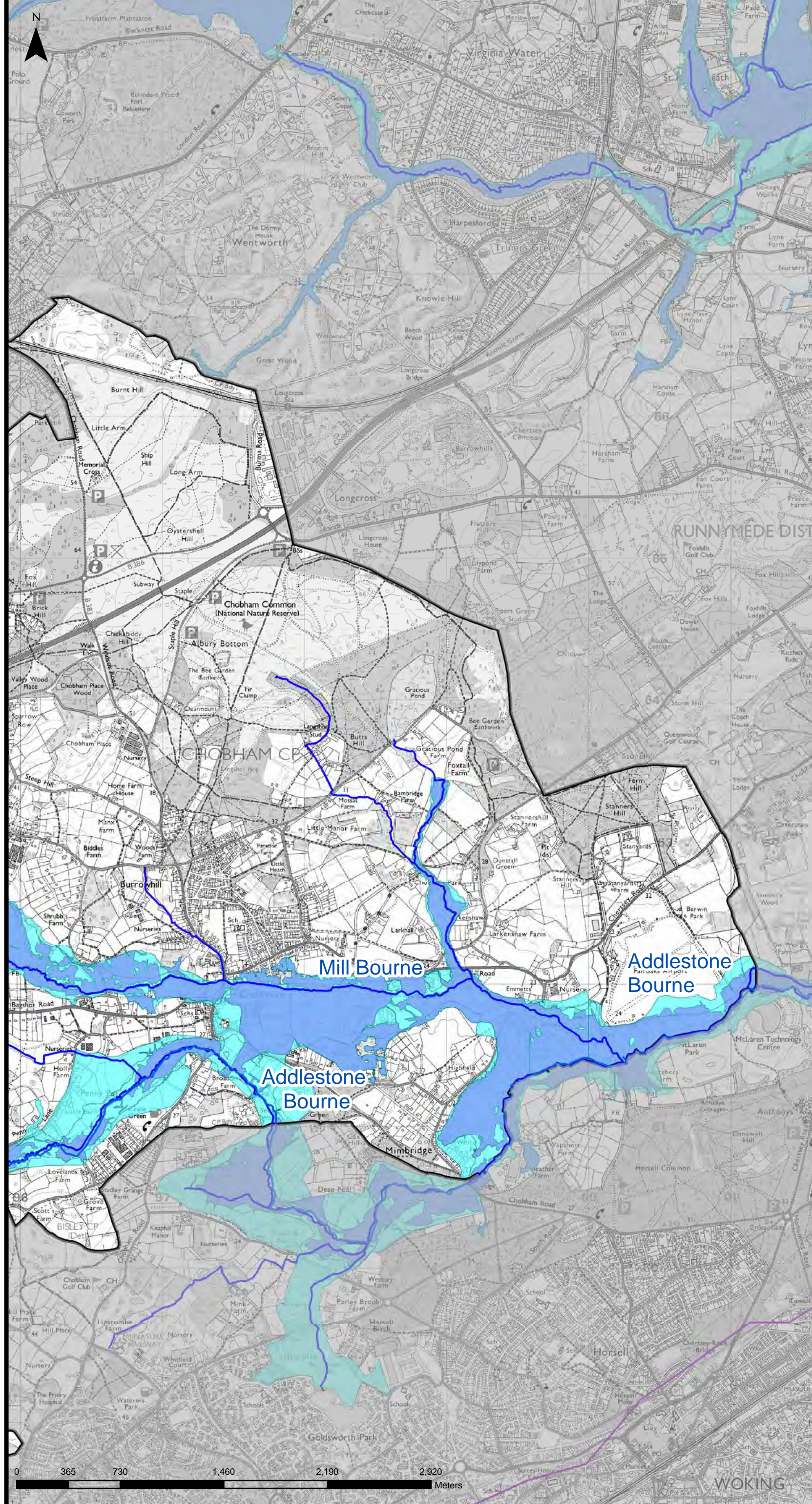
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Legend

-  Main Rivers
-  Borough Administrative Boundary
-  Environment Agency Flood Zone 3
-  Environment Agency Flood Zone 2



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**Figure 7.3
Environment Agency
Flood Map for Planning**

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