

River Tame Flood Risk Management Strategy

**Environmental Report
May 2009**

Contents

Chapter 7 - Implementation and Monitoring Plan

FIGURES



7 Implementation and Monitoring Plan

This section deals with:

- The environmental monitoring at a strategic level
- Future agreements and approvals required

7.1 Introduction

A fundamental part of the SEA process, required by the SEA Directive, is a monitoring system that allows the actual impacts of strategic measures to be tested against the predicted impacts. The monitoring process also helps to ensure that mitigation is effective, that no unforeseen impacts occur and that existing arrangements for monitoring are not duplicated. Monitoring can also be used to address gaps in data, or uncertainty highlighted by the assessment, to provide a more comprehensive baseline for the next Strategy.

The term 'implementation' in Article 10 of the SEA Directive is taken to mean the realisation of the projects envisaged in the strategy. This includes both their construction and operation. When the River Tame Flood Risk Management Strategy is adopted, these projects will progress into our project appraisal process including an environmental impact assessment.

7.2 Monitoring Parameters

The adopted parameters for monitoring are taken directly from the environmental objectives and indicators in table 1 of this report.

The significant adverse and beneficial effects are also included in Table 20 below to allow the predicted effects to be compared with actual effects. Additional columns can be added onto the end of the table once monitoring is carried out. These could include:

- Results from monitoring
- Target achieved (Y/N)
- Further action required

7.3 The Next Steps – Agreements and Approvals

Consultation will be carried out on this Environmental Report and the draft Tame Strategy between 18 May 2009 and 10 August 2009. During this consultation period we will be holding a series of workshops with local communities and stakeholder organisations.

If you have any comments on the Strategy and Environmental Report please contact:

River Tame Strategy Consultation
Environment Agency
Olton Court, 10 Warwick Road, Olton, Solihull, B92 7H2

E-mail: rivertamestrategy@environment-agency.gov.uk

Tel: 08708 506 506

Following consultation the Strategy will be finalised, and submitted for Environmental Agency internal approval.

A post adoption statement will then be published in Autumn 2009 which will indicate how the comments received have been taken into account during development of the Strategy.

Following agreement the Strategy will begin to be implemented. Detailed design will be required in order to implement many of the preferred options. It is likely that the majority of schemes will require:

- Environmental Impact Assessment under SI 1783 (improvement works which are progressed as permitted development.
- Planning Permission

We have indicated in this report areas in which potential environmental risks have been passed to this next 'tier' (i.e. Environmental Impact Assessment) within the assessment framework. These include:

- Investigation of potential constraints offered by the presence of unknown/buried archaeological remains
- Protected species surveys to identify specific impacts and the need for mitigation measures

- Unforeseen in-combination effects that become apparent as programmes change or existing uncertainties are further understood.

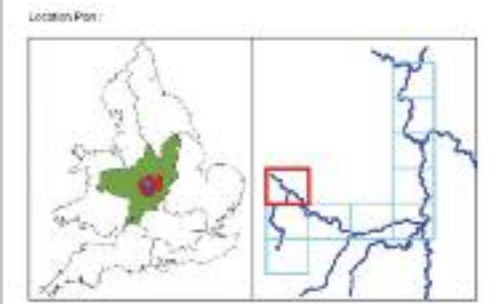
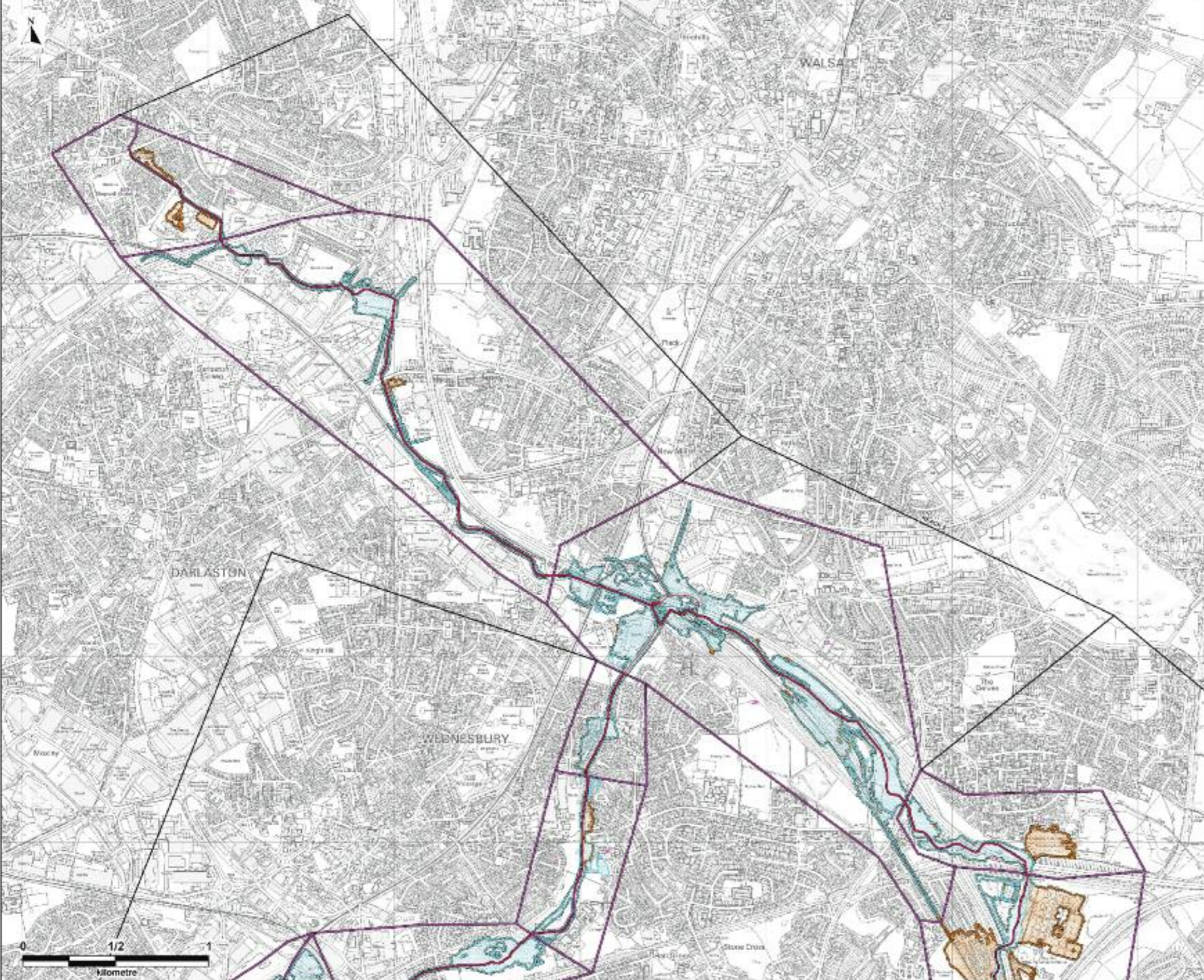
Table 20: Proposed Monitoring Plan

Strategic Environmental Objective	Sub-Objectives	Indicator	Proposed Monitoring	Responsibility for monitoring and timescales
To protect and, where possible, enhance biodiversity	To avoid damage to designated wildlife sites	Reported condition status of designated sites	Condition of designated sites	EA/ Natural England. Annual update.
	To contribute to achieving UKBAP and local BAP objectives	Reported progress against BAP objectives and targets	Progress against BAP objectives/ targets for water related habitats/ species. Area of water related BAP habitat created / enhanced.	EA/ Natural England. Annual update.
	To enhance biodiversity in the urban environment	Areas of habitat and urban greenspace creation or enhancement	Area of water related BAP habitat and urban greenspace created / enhanced.	EA/ Natural England Annual update.
To avoid and, where possible, enhance possible effects on human health and population	To protect people and their property from the adverse effects of flooding	Numbers of people and properties affected by flooding	Numbers of people and properties protected from flooding. Numbers of properties covered by flood warning scheme. Numbers of properties signed up to flood warning scheme.	EA. Updated every 5 years
	To protect and enhance recreation and amenity facilities	Number and area of recreational and amenity facilities	Recreational sites enhanced as a result of flood risk management activities.	EA. Updated every 5 years
To protect and enhance land quality	To protect valuable land from adverse effects of flooding and safeguard soil quality and quantity	Area of valuable agricultural land at risk from flooding	Area of valuable agricultural land at risk of flooding. Area of floodplain agricultural land used for activities compatible with flood risk.	EA. Updated every 5 years
To protect and enhance water	Contribute to maintaining or improving water quality standards where feasible. Support achievement of GES/GEP under the Water Framework Directive.	General Quality Assessment Classification Grade. Achievement of Water Framework Directive objectives	Length of river achieving WFD objectives.	EA. Annual update
	Protect geomorphological features for the river and floodplain and, where possible, provide opportunities for enhancement.	Length of natural or unmodified river and area of unmodified floodplain	Length of river achieving WFD objectives. Length of river in which greater connectivity between river and floodplain achieved.	EA. Annual update
To protect existing material assets	To protect infrastructure	Critical infrastructure (rail, road, water treatment works etc.) at risk from flooding	Key strategic transport networks and infrastructure protected from adverse effects of flooding.	EA. Updated every 5 years
To protect and enhance cultural heritage features	To minimise adverse effects on undiscovered or buried archaeology	Area and quality of potential archaeological assets threatened	Proposed flood risk management schemes for which appropriate archaeological study / watching brief carried out.	EA/ English Heritage. Updated every 5 years
	To protect designated archaeological and historic features within the floodplain	Number of Scheduled Monuments and other designated features at risk from adverse effects of flooding	Number of Scheduled Monuments and other designated features at risk from adverse effects of flooding	EA/ English Heritage. Updated every 5 years
To protect and enhance landscape character/visual amenity	To avoid detrimental effects and enhance landscape character objectives	Number of valuable landscape features protected or enhanced	Number of sites at which landscape character improvements achieved.	EA/ Natural England. Updated every 5 years

Figures

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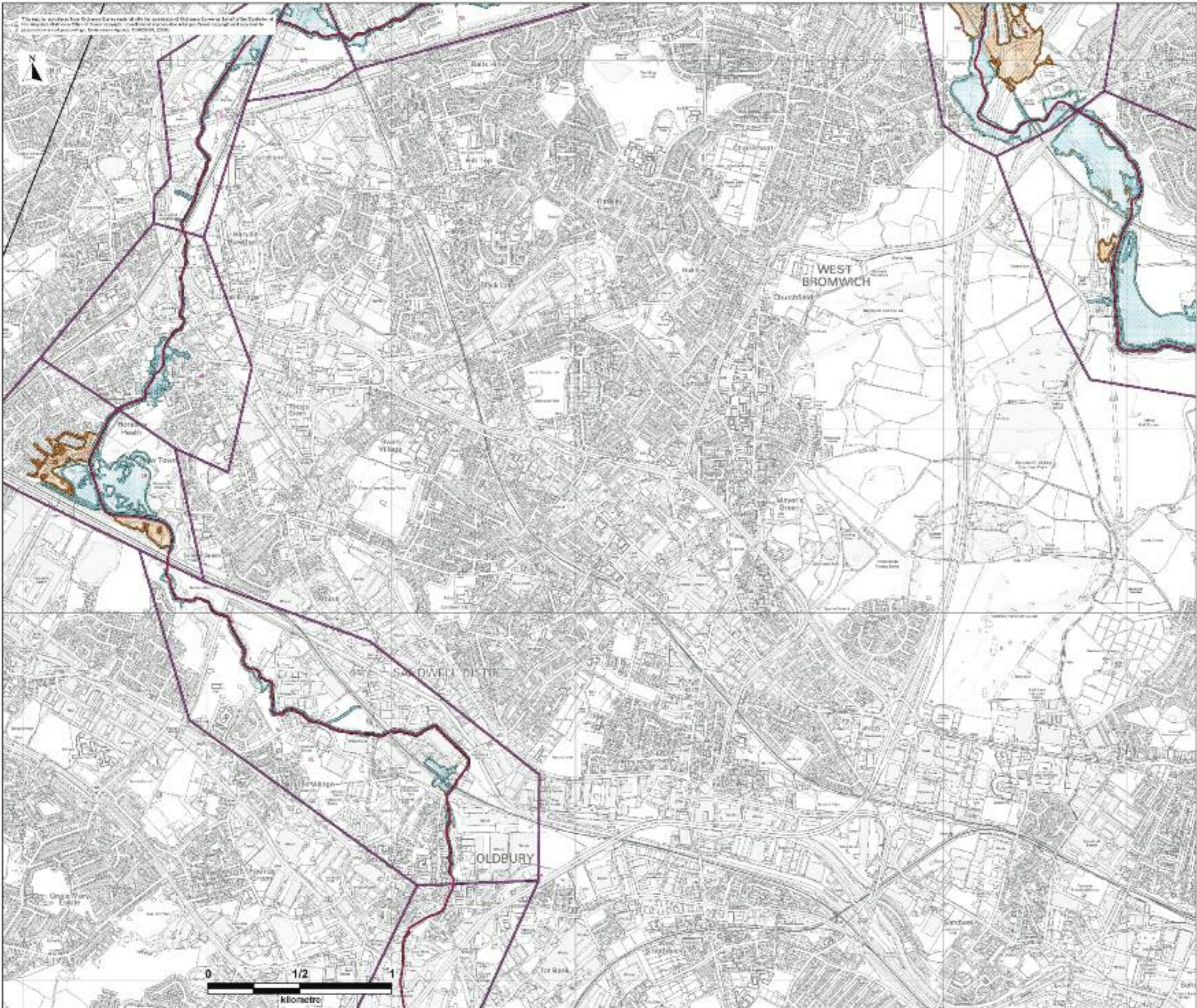
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RIVER TAME STRATEGY

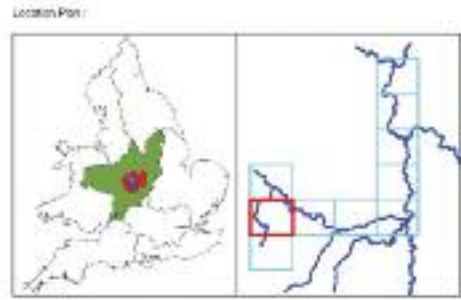
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**RIVER TAME
100 YEAR (DEFENDED) & 100 YEAR
(UNDEFENDED) FLOOD OUTLINES**

Drawn By:	A. Ryan	Date:	12 December 2018
Checked By:	C. Wirth	Date:	12 December 2018
Approved By:	J. H. Patten	Date:	12 December 2018
Drawing No:	WNRTSLU - FIGURE - 1a	Revision:	FINAL
Drawing Scale:	1:2,500	Sheet No.:	1 of 10
		Plot Ratio:	1:4 @ A1



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Drawn:

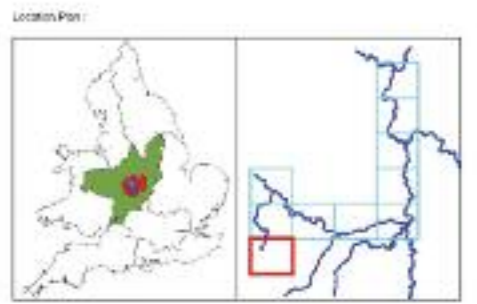
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Approved By:	J. R. per	Date:	12 December 2018

Drawing No:	WNRTSLU - FIGURE - 1b	Revision:	1	Status:	FINAL
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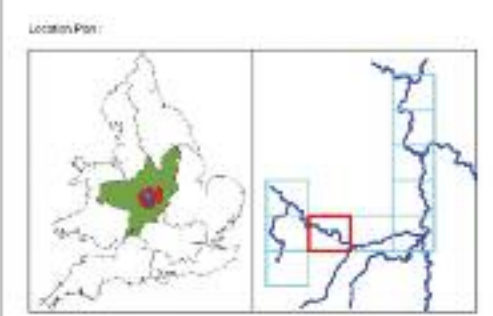
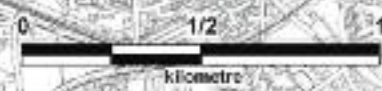
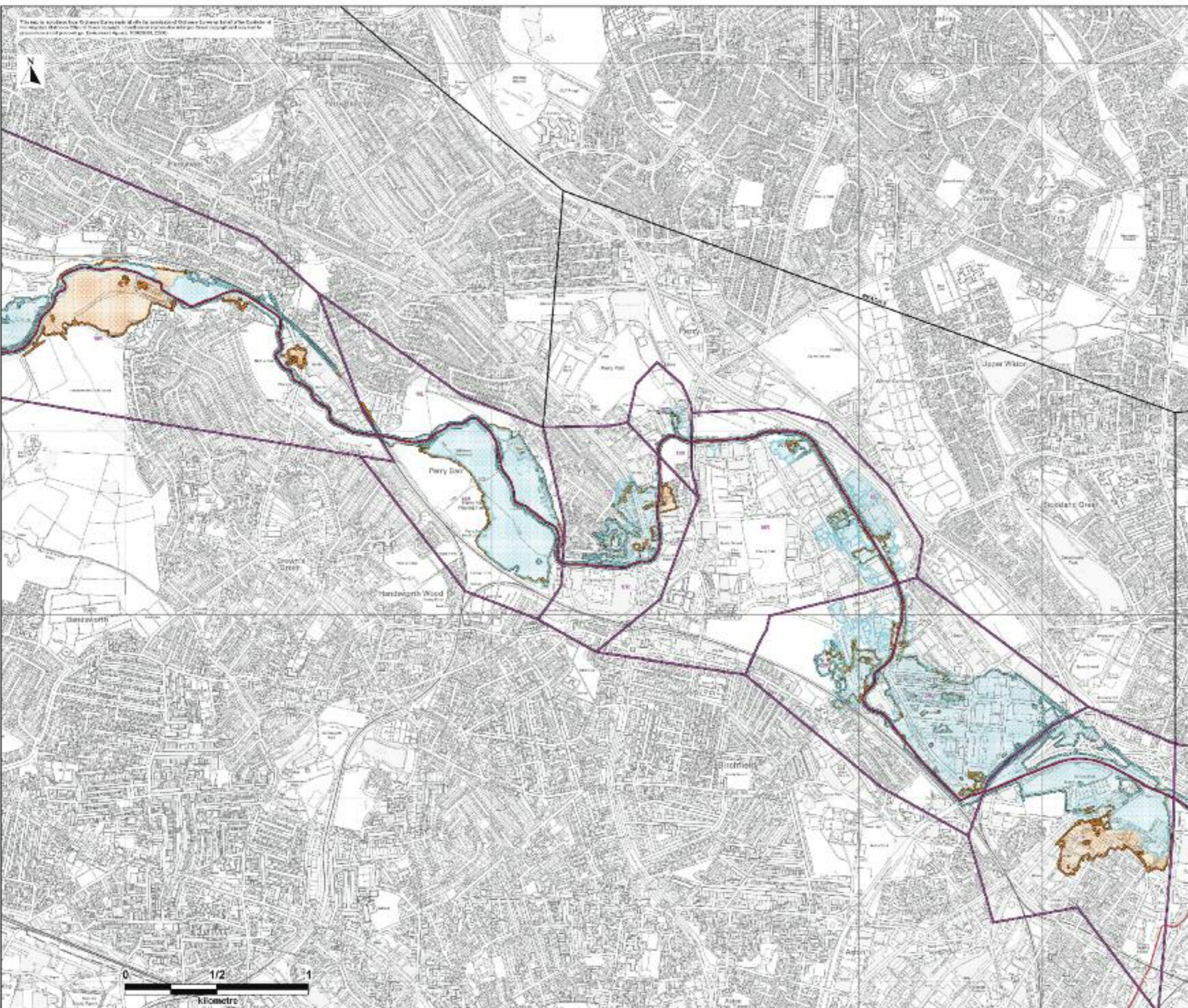
RIVER TAME 100 YEAR (DEFENDED) & 100 YEAR (UNDEFENDED) FLOOD OUTLINES

Drawn By:	A. Rye	Date:	12 December 2018
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- Legend
- Min Run
 - 100 YR (100 Year Flood Outline) Defended
 - 100 YR (100 Year Flood Outline) Undefended
 - Fetch
 - River Catch

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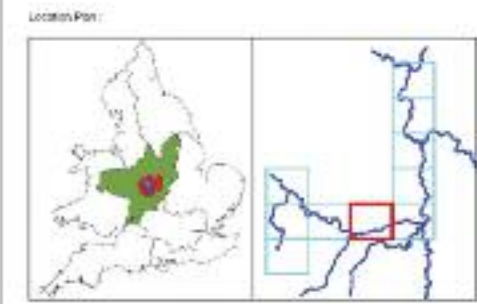
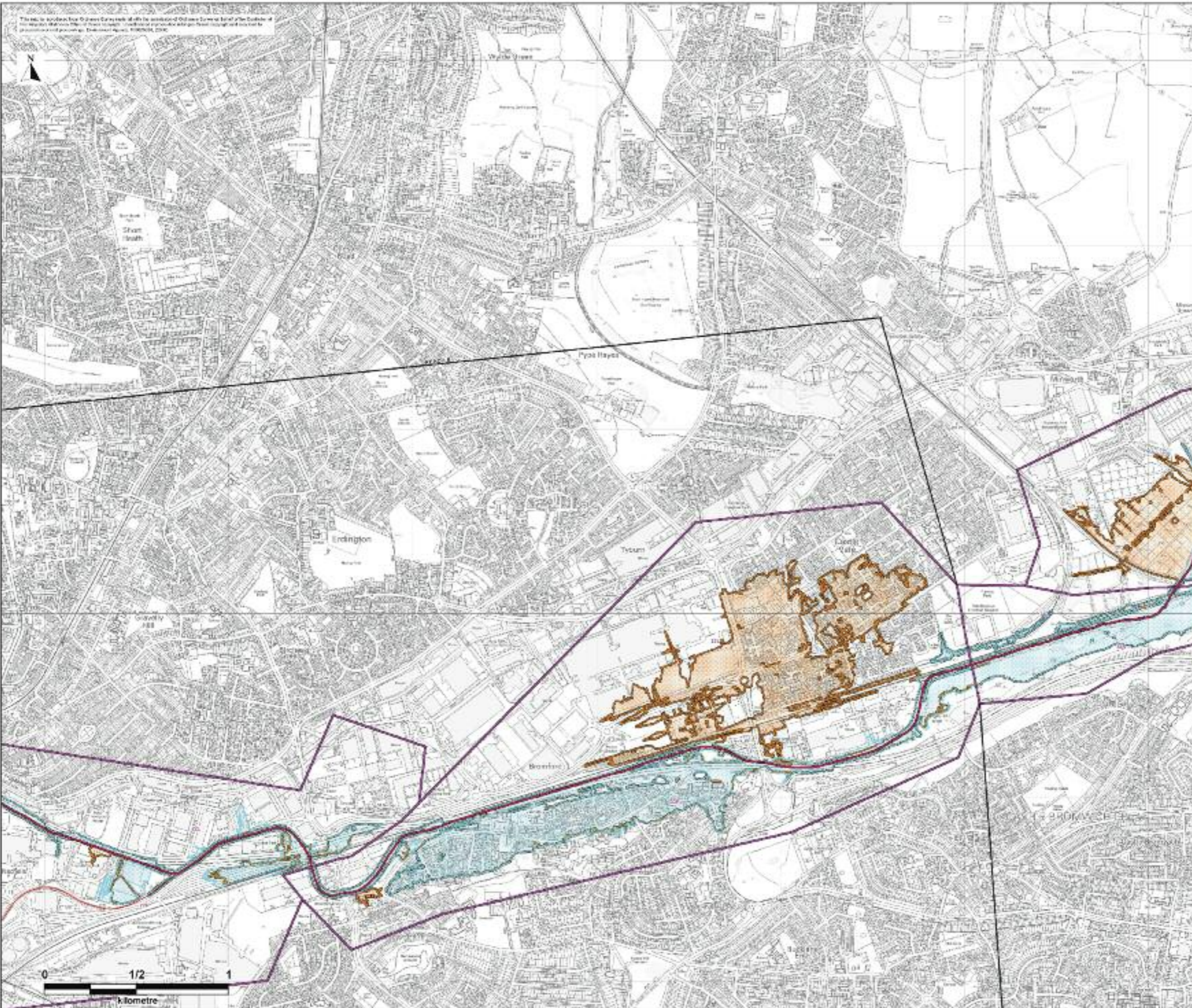
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100 YEAR (DEFENDED) & 100 YEAR
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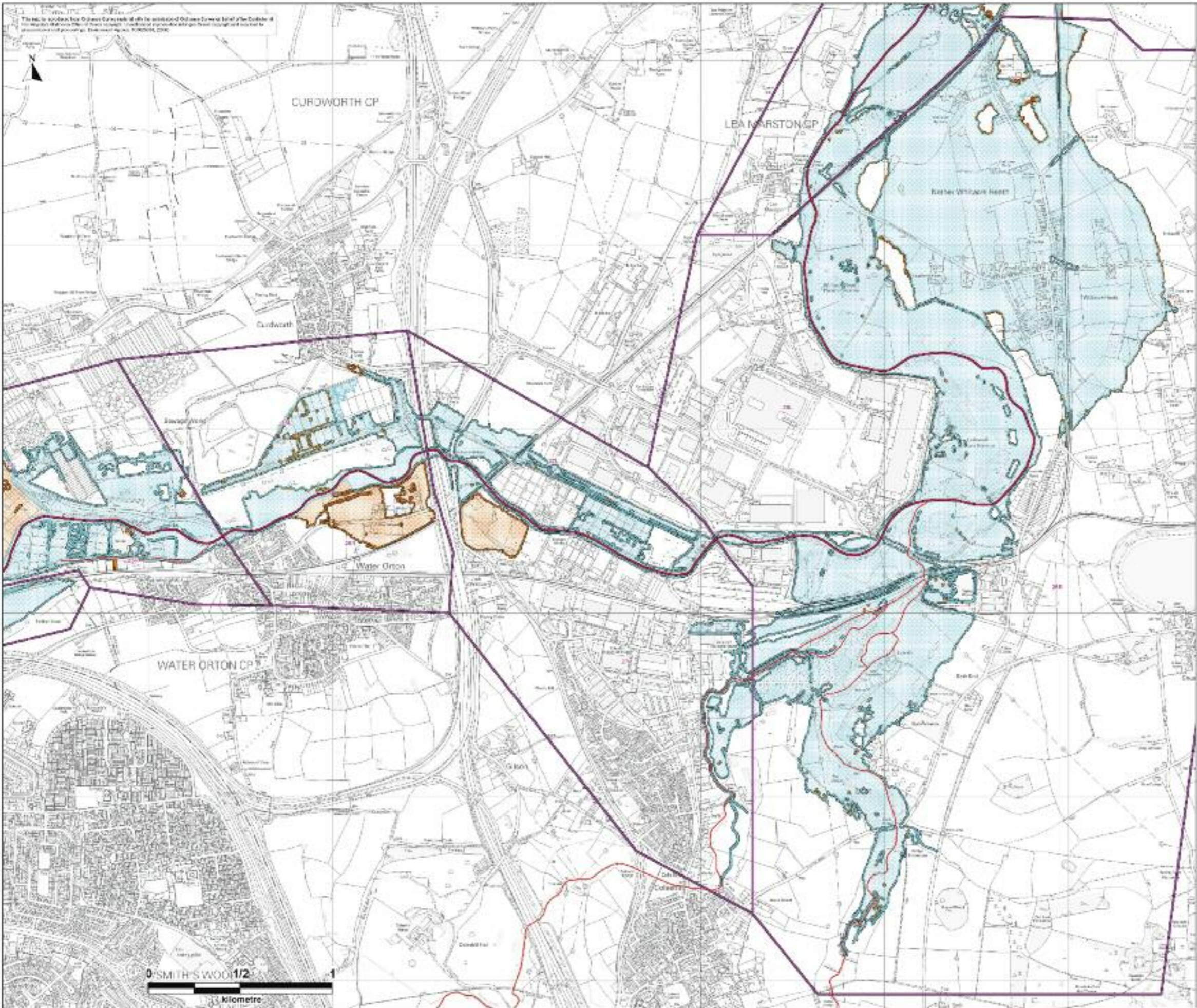
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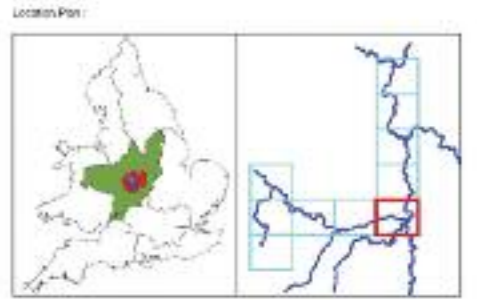
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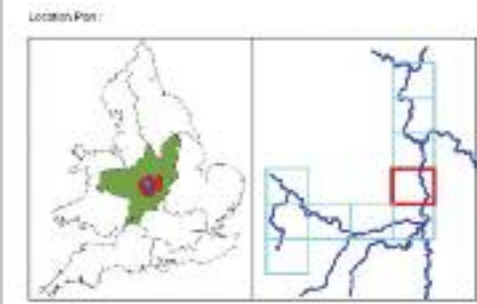
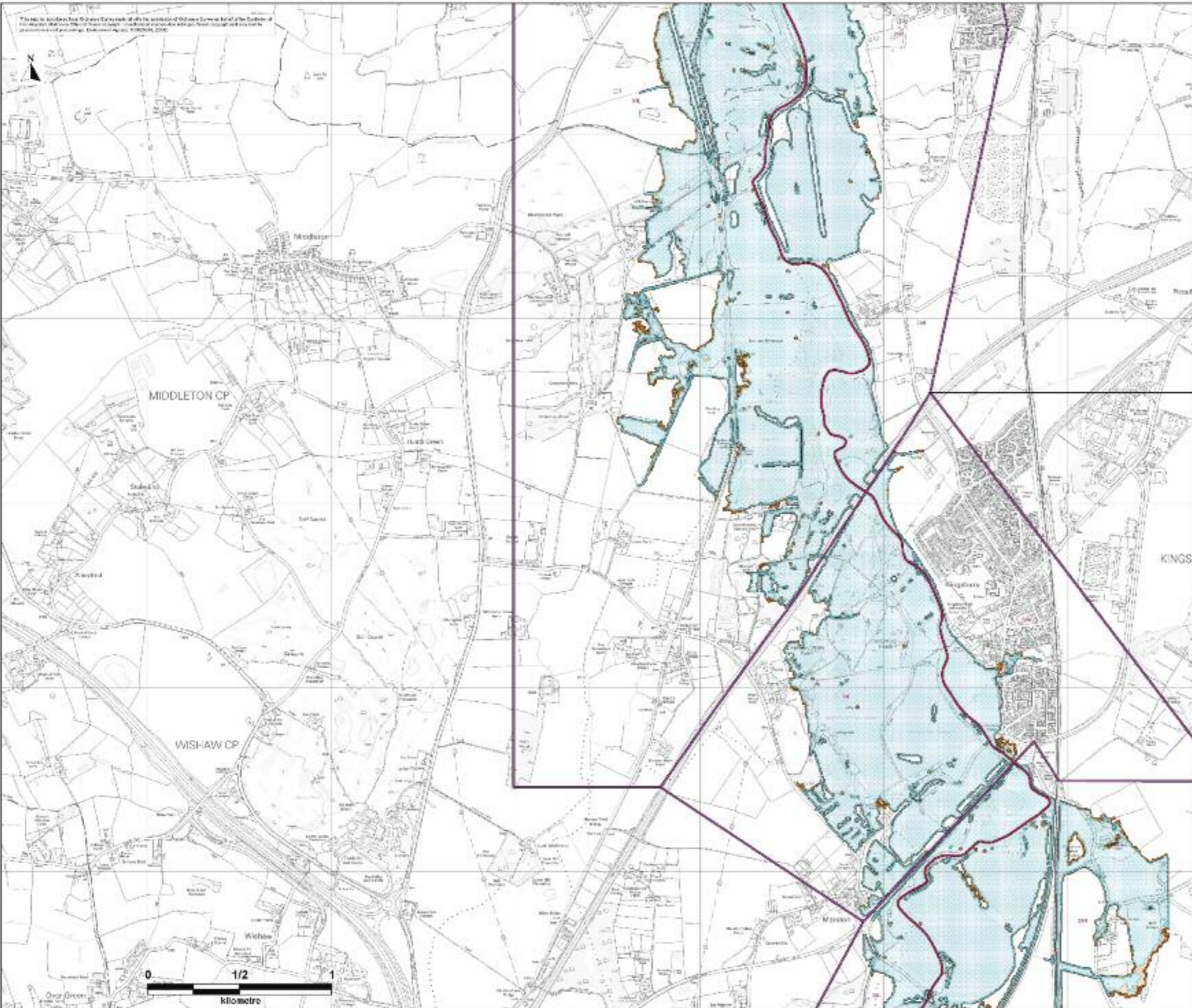
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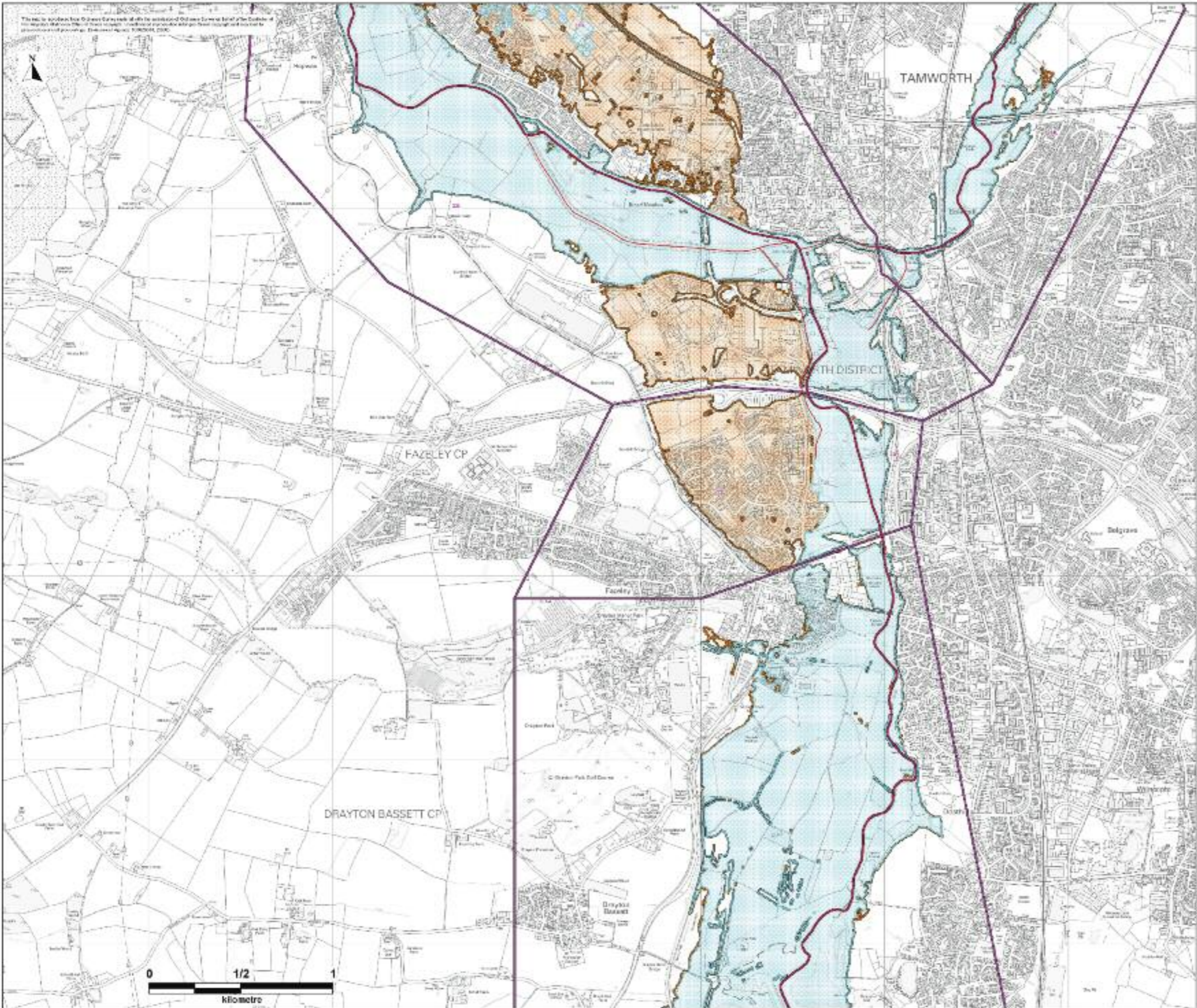
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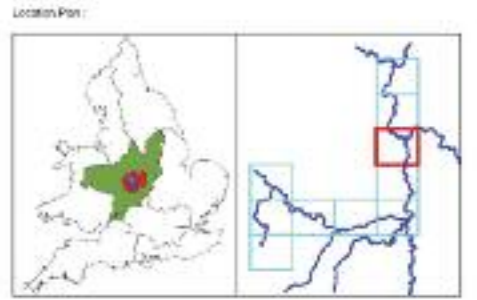
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100 YEAR (DEFENDED) & 100 YEAR
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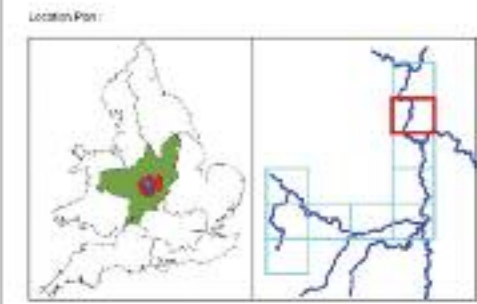
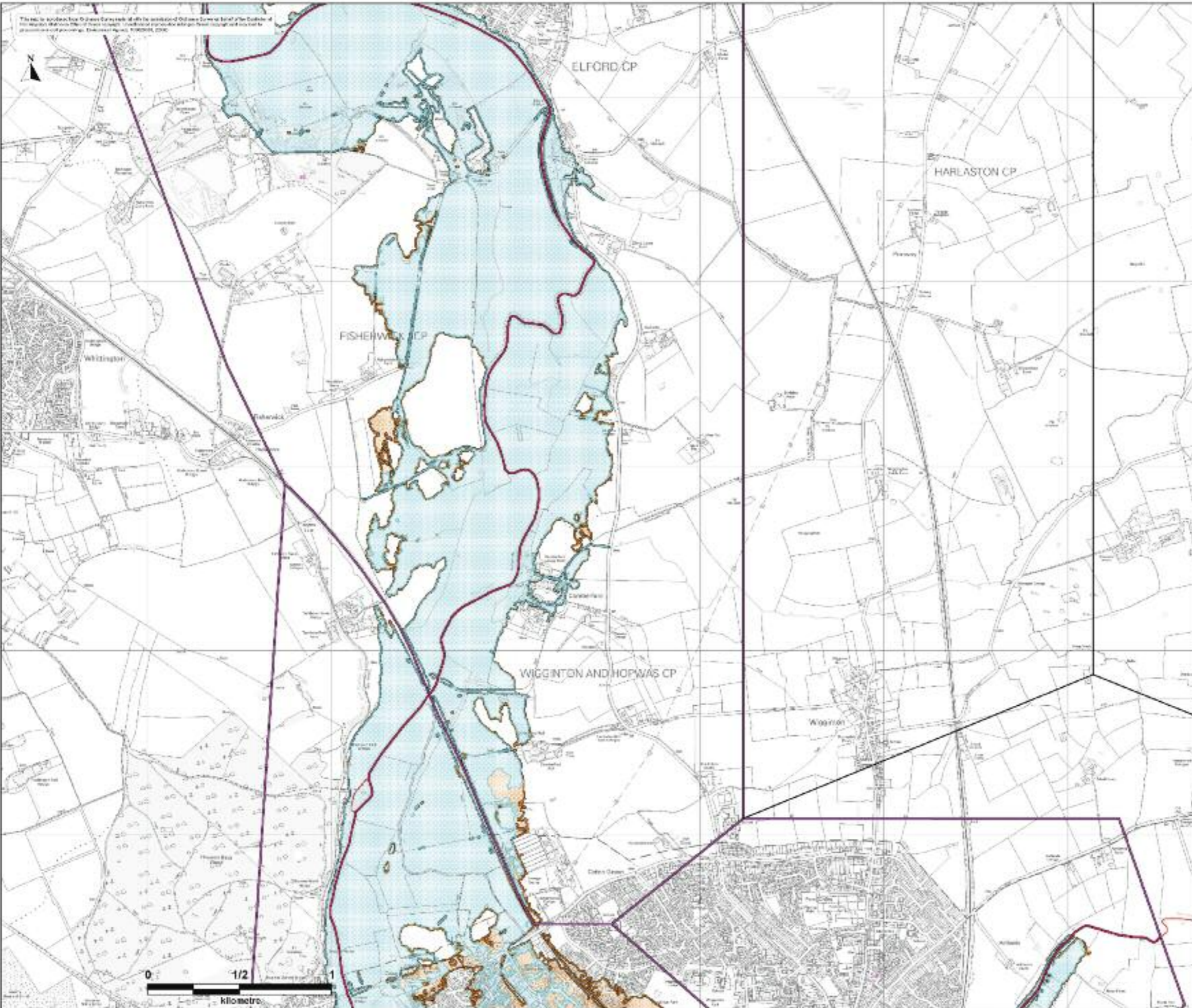
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Drawing:

**RIVER TAME
100 YEAR (DEFENDED) & 100 YEAR
(UNDEFENDED) FLOOD OUTLINES**

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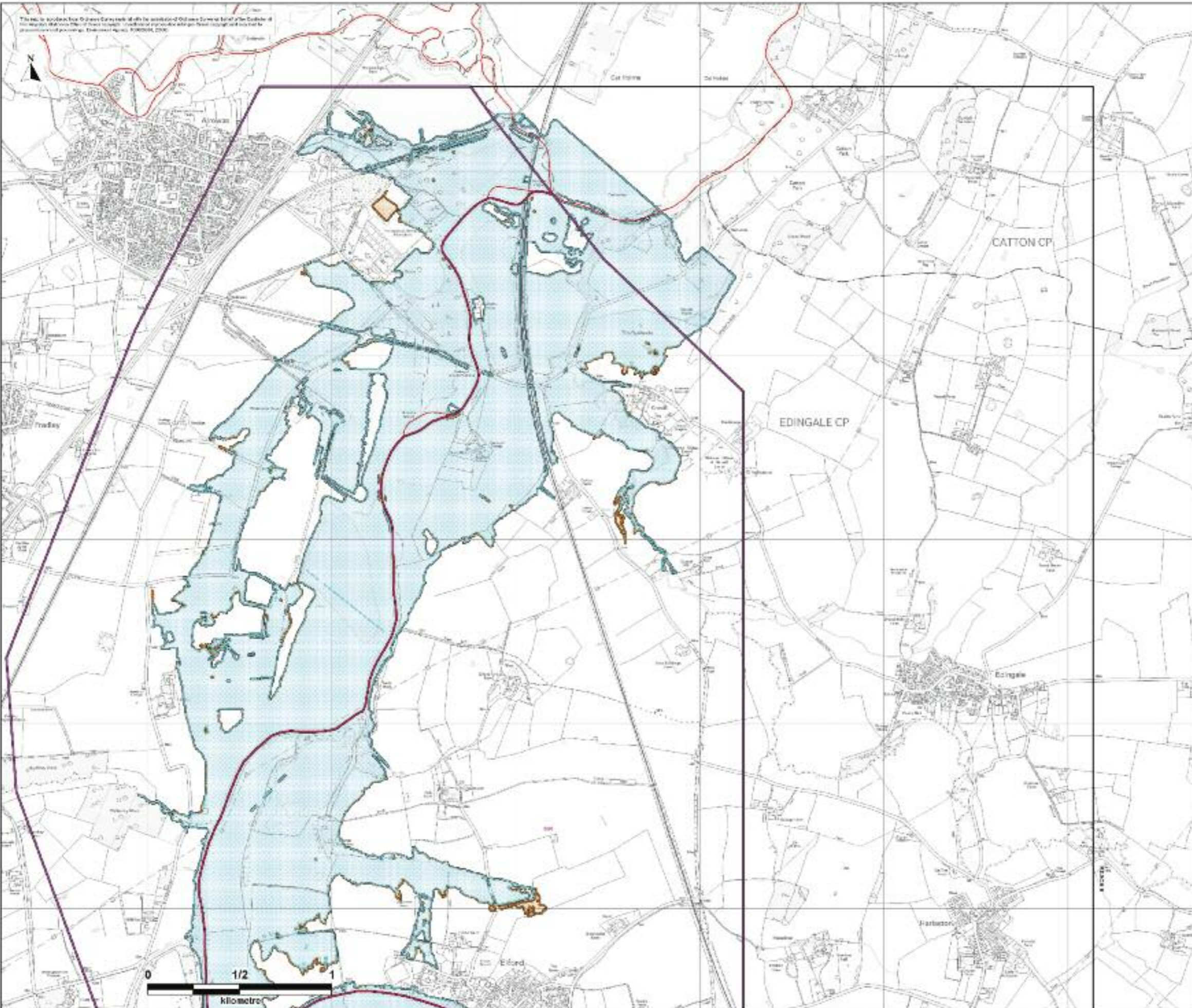
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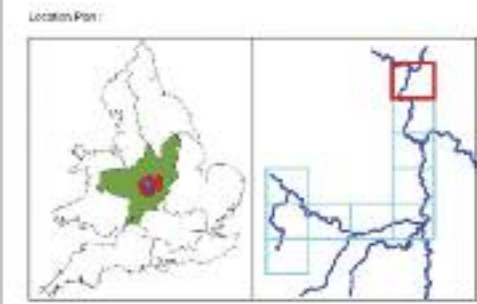
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**RIVER TAME
100 YEAR (DEFENDED) & 100 YEAR
(UNDEFENDED) FLOOD OUTLINES**

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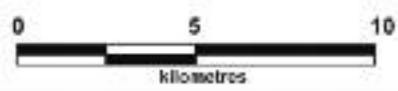
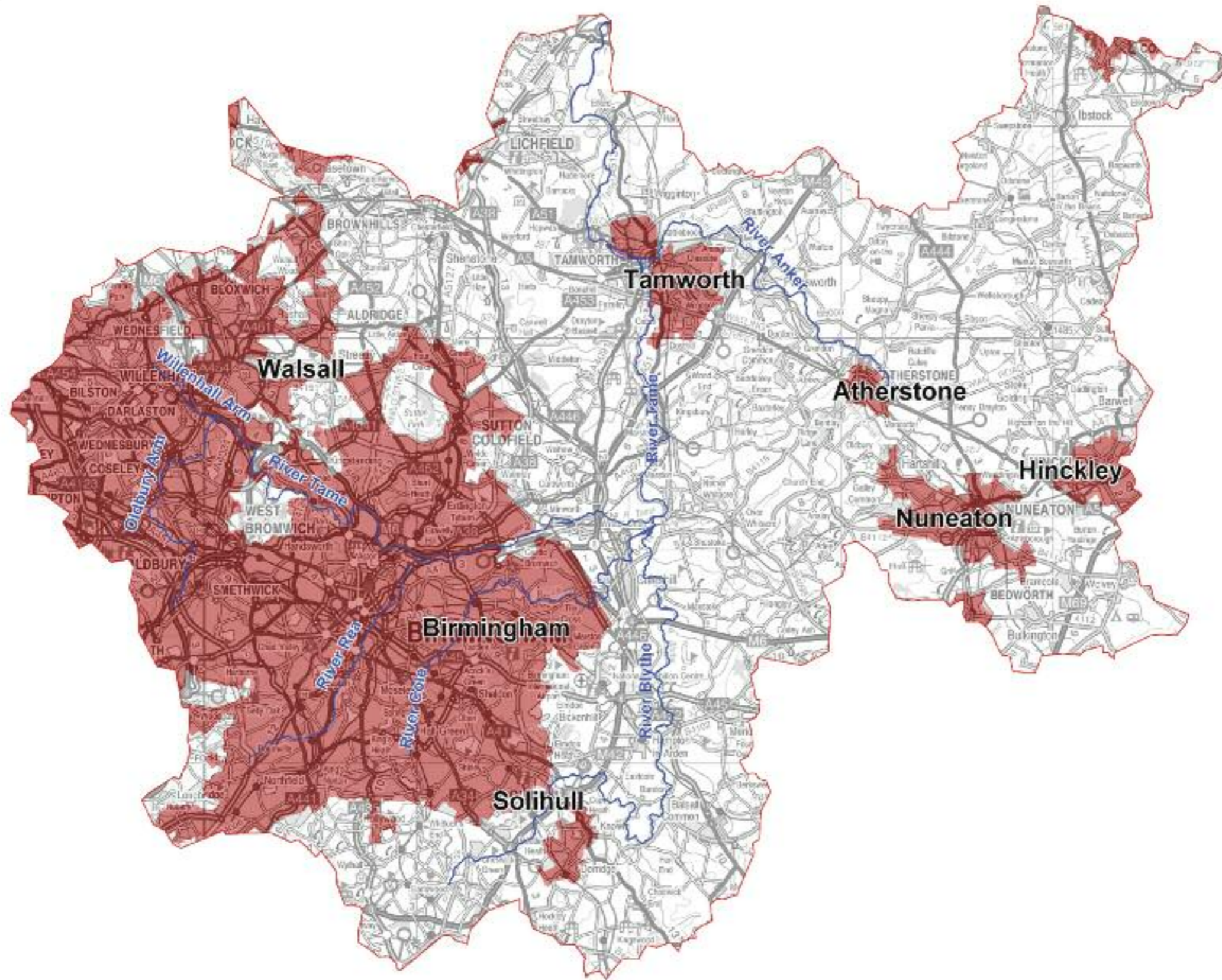
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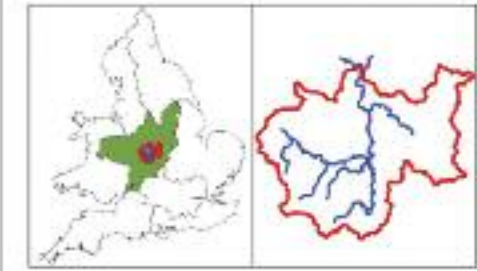
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Location Plan:



Minor River



Tame Catchment Boundary



Urban Area



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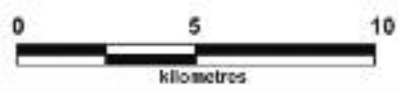
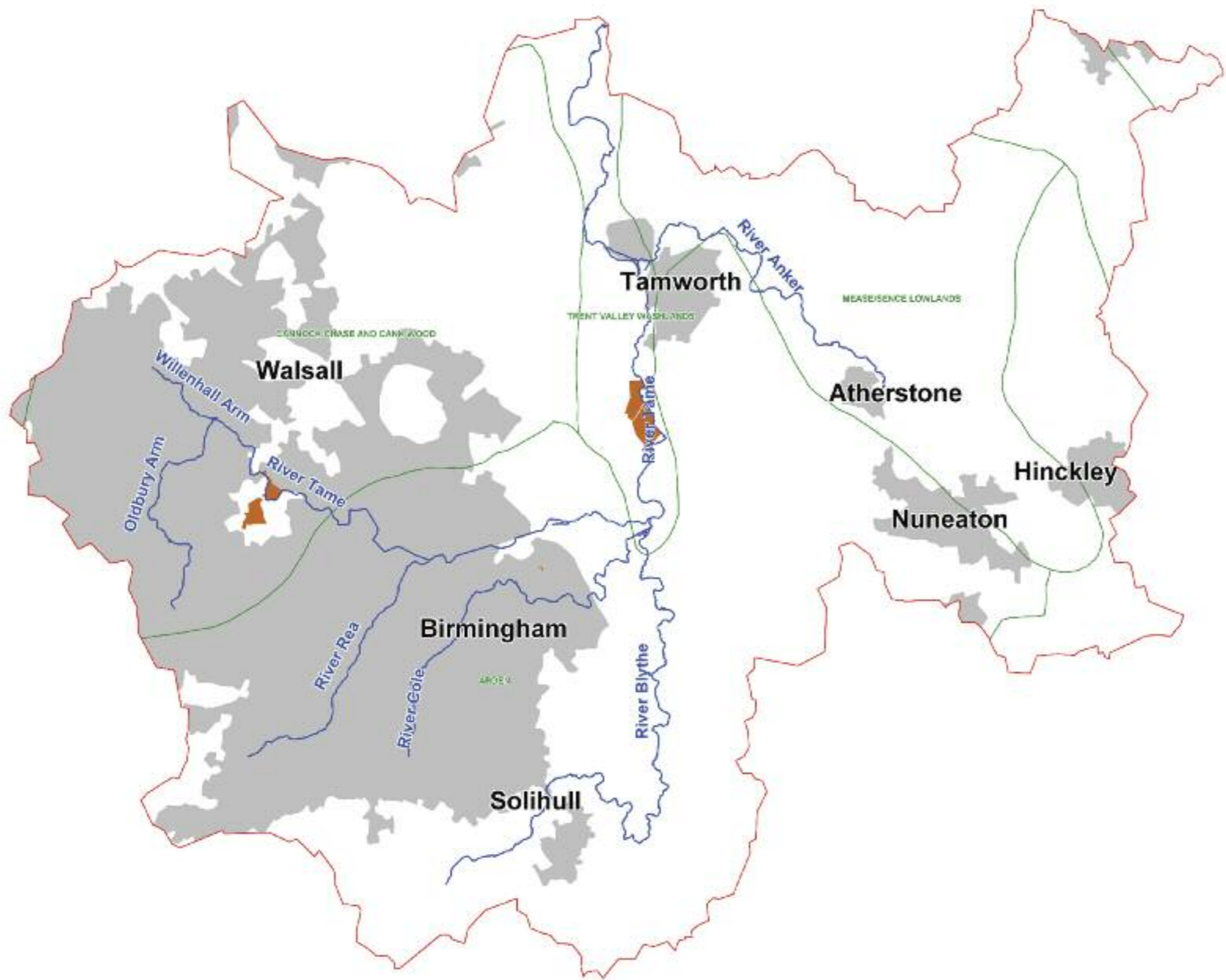
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**RIVER TAME
CATCHMENT OVERVIEW
URBAN AREAS**

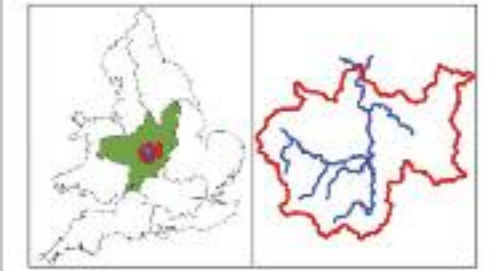
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WINRTSLU - FIGURE - 2

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Location Plan:



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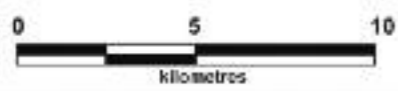
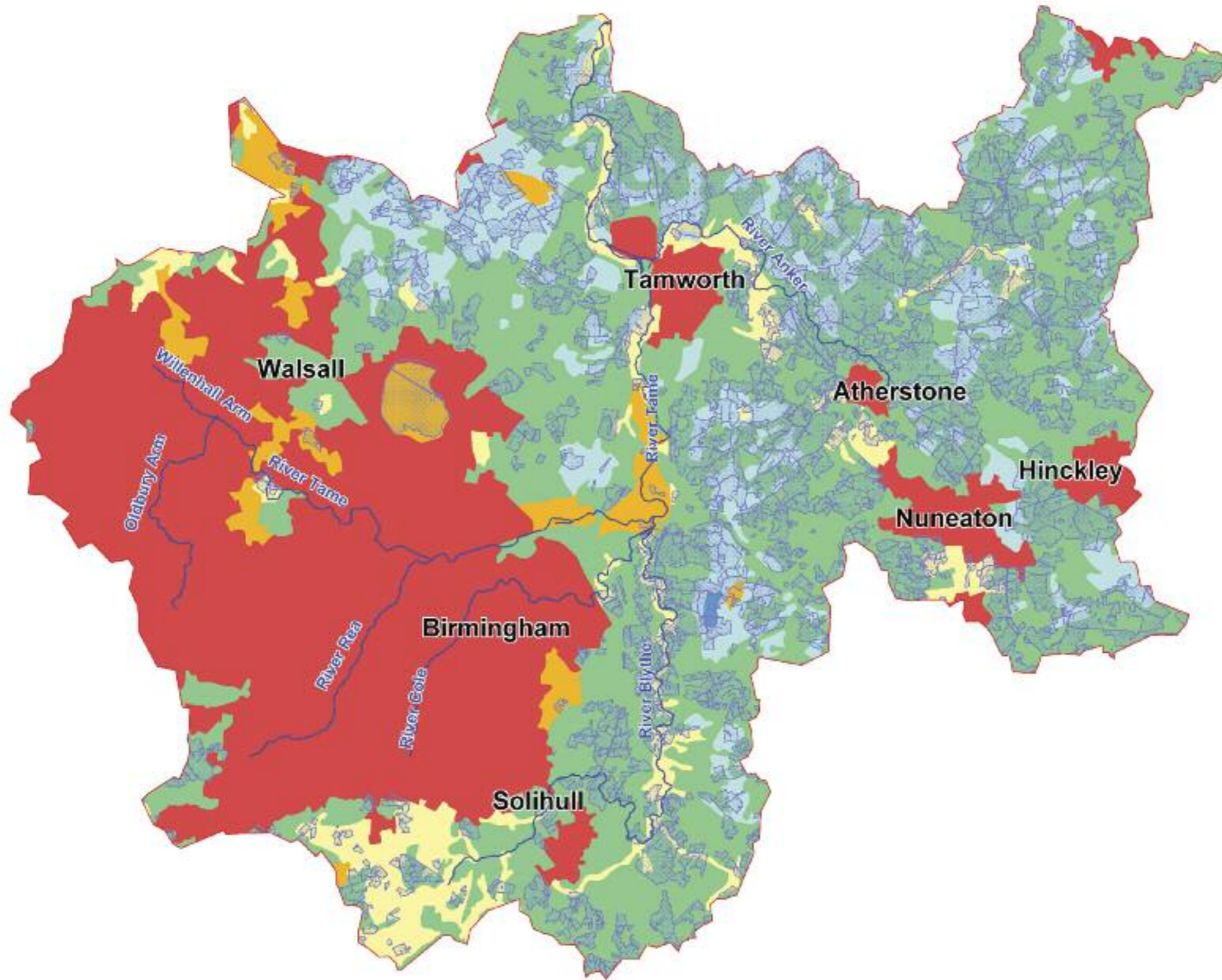
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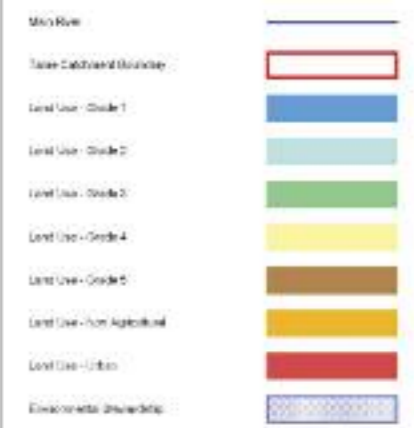
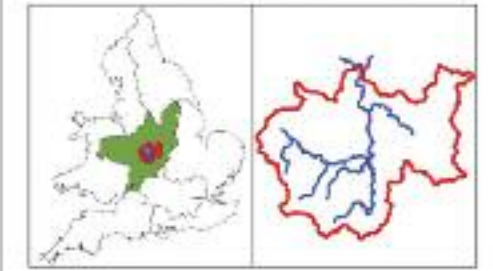
Client:
**RIVER TAME
LANDSCAPE CHARACTER DESIGNATIONS**

Drawn By:	A. R. J. (jr)	Date:	12 December 2018
Checked By:	C. W. (C)	Date:	12 December 2018
Approved By:	J. R. (jr)	Date:	12 December 2018
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WVRTSLU - FIGURE - 3			FINAL
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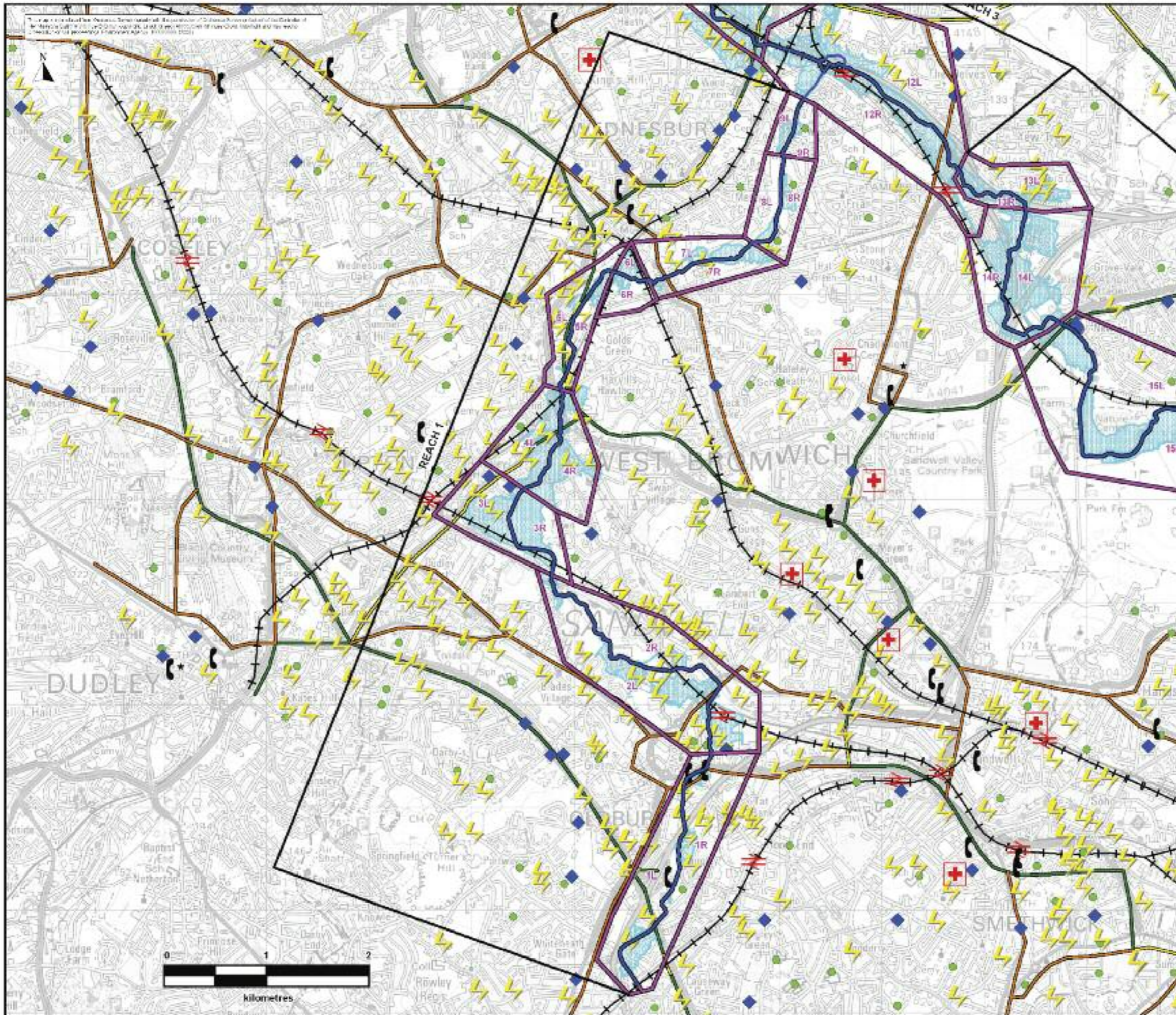
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Project:
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Client:
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AGRICULTURAL LAND CLASSIFICATION &
ENVIRONMENTAL STEWARDSHIP**

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Checked By:	C. W. J.	Date:	12 December 2018
Approved By:	J. R. P.	Date:	12 December 2018

Drawing No: **WNRTSLU - FIGURE - 4** Revision: **FINAL**



Location Plan

Legend

- Reach
- Flood Cell
- Watercourse
- 1% AEP 100 Year Flood Outline
- Power & Gas Stations
- Schools
- Care Homes
- Traffic Stations
- Temporary Exchanges
- Emergency Response Centres
- Waste & Water Treatment Works
- Hospitals
- Primary Road, Single Carriageway
- Primary Road, Dual Carriageway
- Railway Train
- A Road, Single Carriageway

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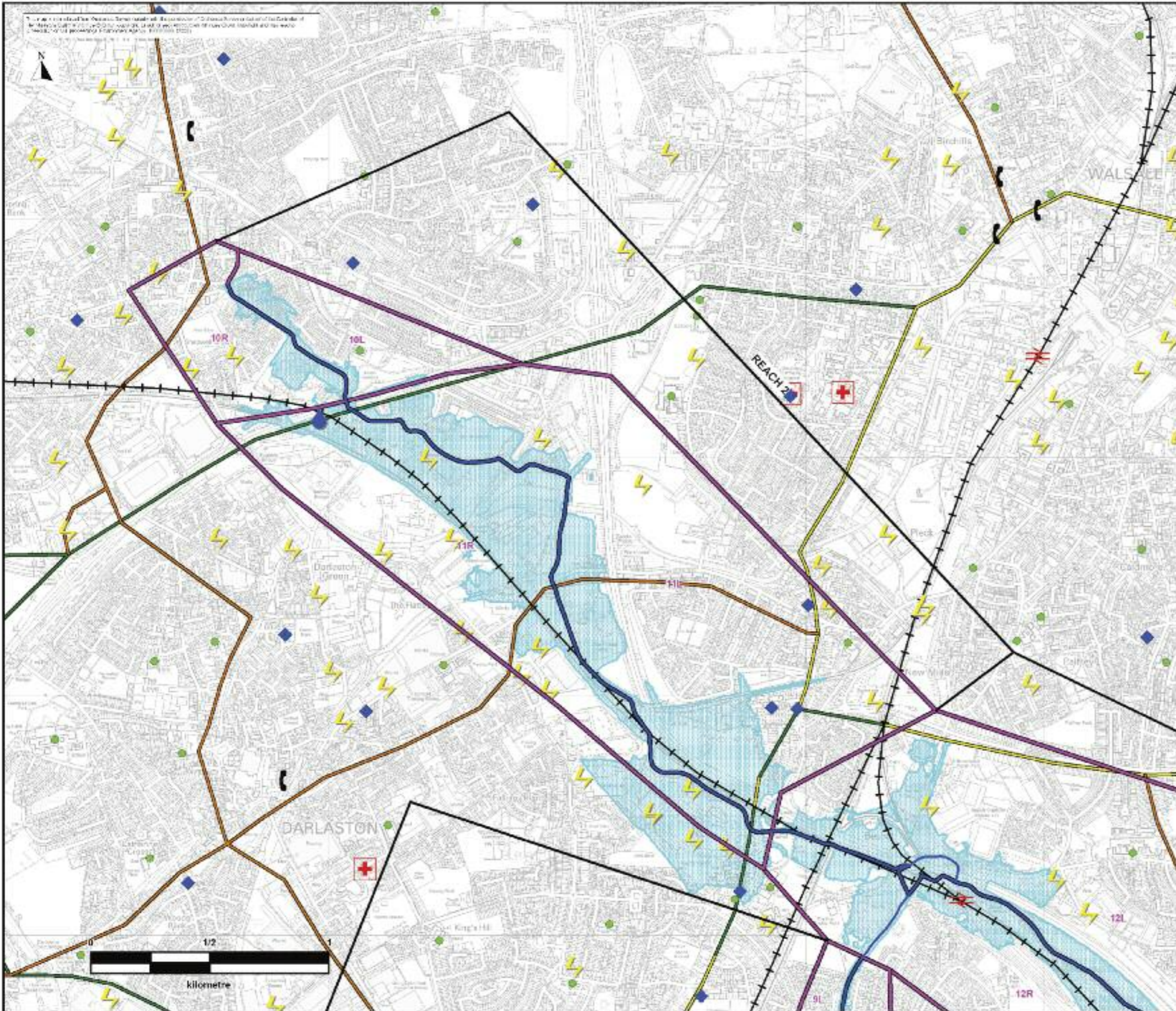
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 1**

Drawn By: A.J. Owen	Date: 30 December 2010
Checked By: C. Wilson	Date: 30 December 2010
Approved By: J.R. Parkin	Date: 30 December 2010

Drawing No:	Revision:	Status:
WN/RTSU - FIGURE - 5a	-	FINAL

Drawing Scale: 1:25,000 Sheet No: 1 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach
- Flood Cell
- Watercourse
- 1% AEP 100 Year Flood Outline Contour
- Power & Gas Stations
- Schools
- Care Homes
- Railway Stations
- Temporary Exchanges
- Emergency Response Centres
- Sewage & Water Treatment Works
- Hospitals
- Primary Road, Single Carriageway
- Primary Road, Dual Carriageway
- Railway Line
- A Road, Single Carriageway

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 Dudley Park
 Letchford
 WOTR 519

Project:

RIVER TAME STRATEGY

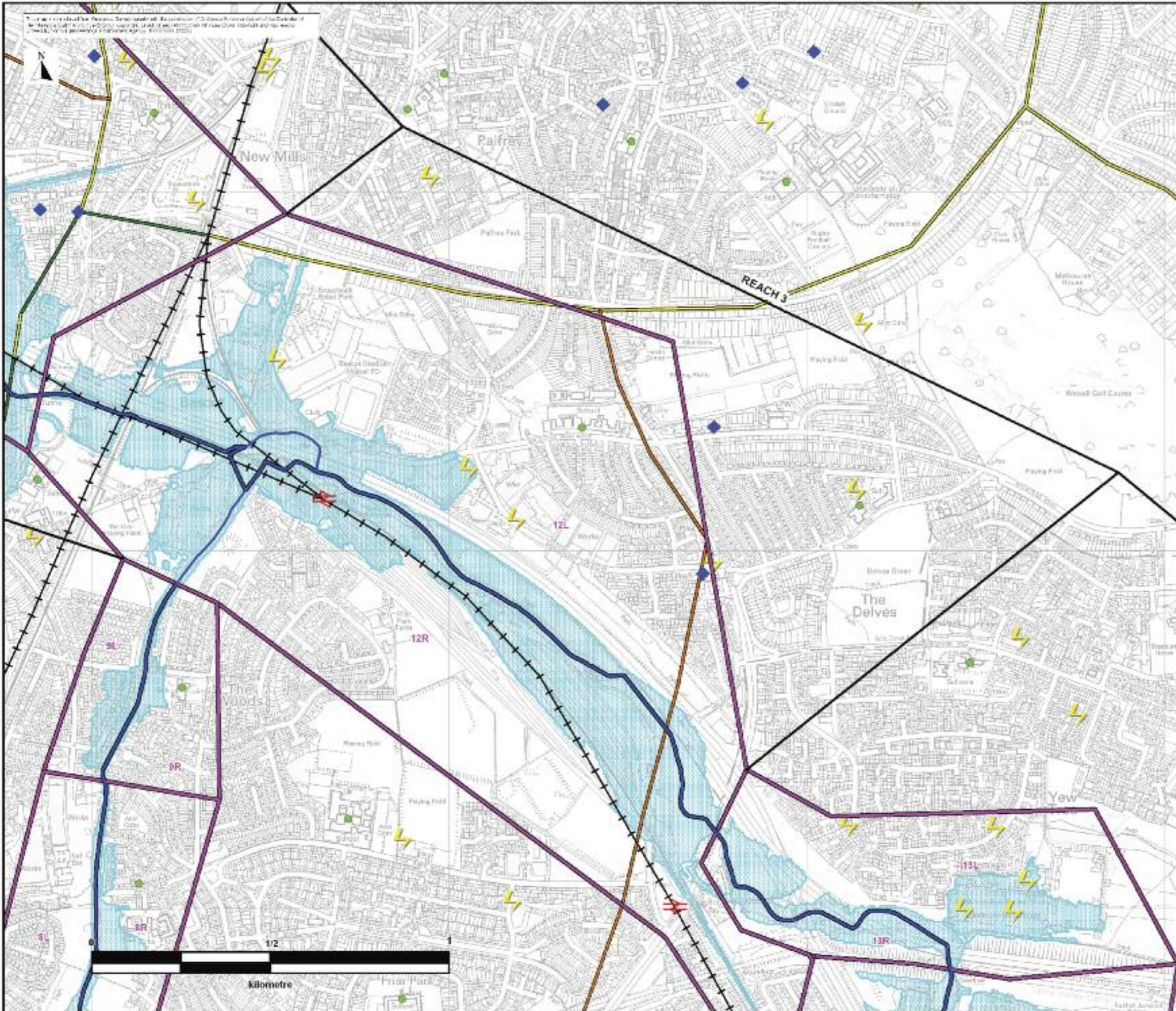
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 2**

Drawn By: A.J. Sykes	Date: 30 December 2009
Checked By: C. Wilson	Date: 30 December 2009
Approved By: J.R. Parkin	Date: 30 December 2009

Drawing No: WN/RTSU/ - FIGURE - 5b	Revision: -	Status: FINAL
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Drawing Scale: 1:15,000 Sheet No: 1 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach
- Flood Cell
- Watercourse
- 1% AEP 100 Year Flood Outlines
- Road & Gas Stations
- Schools
- Car Motels
- Traffic Stations
- Transfer Exchanges
- Emergency Response Centres
- Waste & Water Treatment Works
- Hospitals
- Primary Road, Single Carriageway
- Primary Road, Dual Carriageway
- Railway Train
- A Road, Single Carriageway

Rev.	Dr.	Date	Description

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Environment Agency

Lyndon House
85 Hagley Road
Edgbaston
Birmingham
B15 2JG

Central House
Village Green
Radley Park
Leeds
LS16 5JG

Project:

RIVER TAME STRATEGY

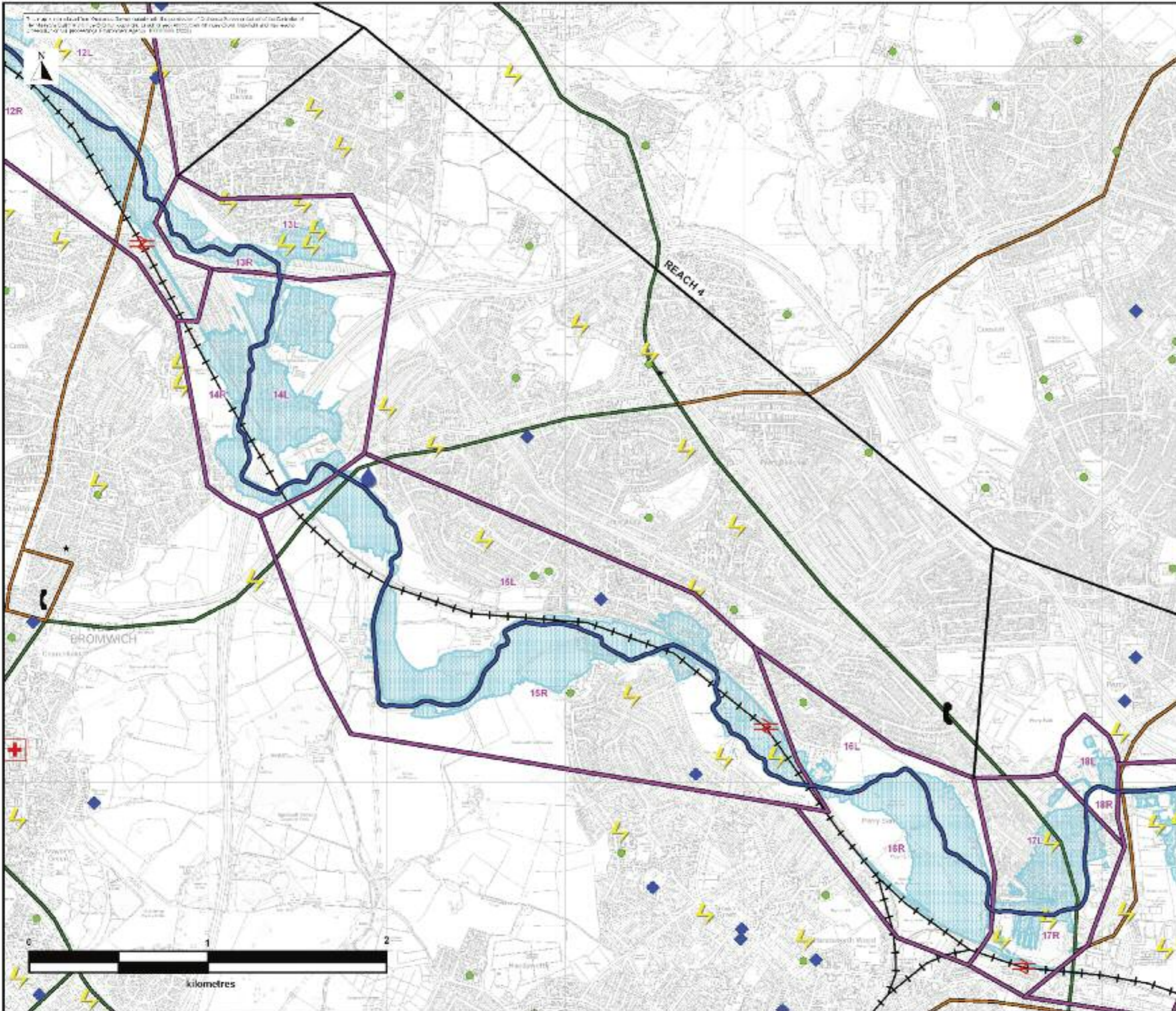
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 3**

Drawn By: A.J. Sykes	Date: 10 December 2010
Checked By: C. Wilson	Date: 10 December 2010
Approved By: J.R. Parkin	Date: 10 December 2010

Drawing No: WN/RTSU/ - FIGURE - 5c	Revision: -	Status: FINAL
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Drawing Scale: 1:10,000 Sheet No: 2 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach
- Flood Cell
- Watercourse
- 1% AEP 100 Year Flood Outline
- Power & Gas Stations
- Schools
- Care Homes
- Railway Stations
- Temporary Floodgates
- Emergency Response Centres
- Sewage & Water Treatment Works
- Hospitals
- Primary Road, Single Carriageway
- Primary Road, Dual Carriageway
- Railway Track
- A Road, Single Carriageway

Rev.	Dr.	Date	Description

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85 Hagley Road
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Birmingham
B15 2JG

Environment Agency
Gottlieb House
Village Green
Radley Park
Lechlade
GL53 6JF

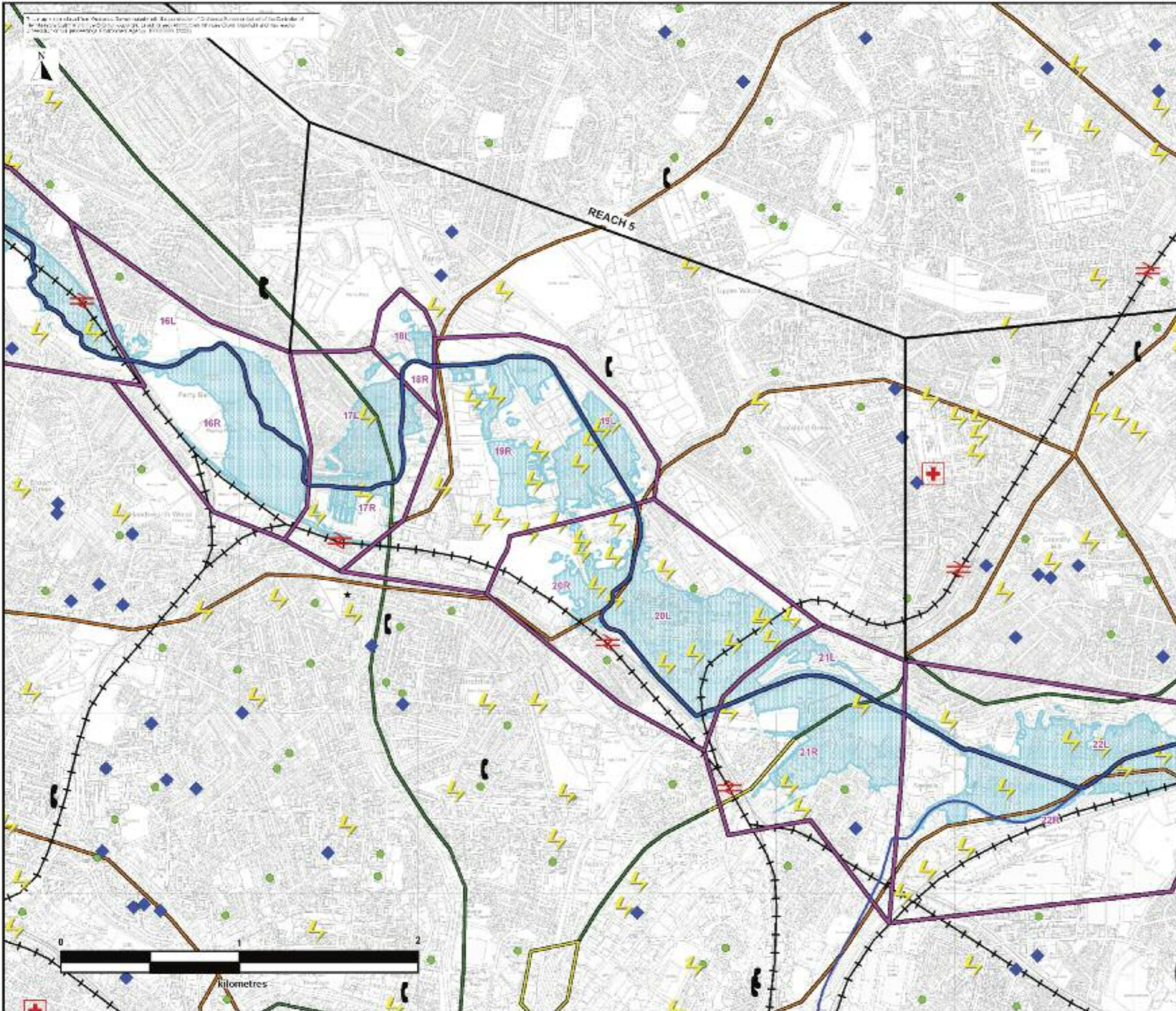
Project:
RIVER TAME STRATEGY

Drawing:
**CRITICAL INFRASTRUCTURE
REACH 4**

Drawn By: A.J. Dyer	Date: 30 December 2000
Checked By: C. Wilson	Date: 30 December 2000
Approved By: J.R. Parkin	Date: 30 December 2000

Drawing No: WN/RTSU/ - FIGURE - 5d	Revision: -	Status: FINAL
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Drawing Scale: 1:25,000 Sheet No: 4 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach: [Black line]
- Flood Cell: [Purple outline]
- Watercourse: [Blue line]
- 1% AEP 100 Year Flood Outlet Channel: [Blue hatched area]
- Power & Gas Stations: [Yellow lightning bolt]
- Schools: [Green circle]
- Care Homes: [Blue diamond]
- Traffic Stations: [Red cross]
- Temporary Exchanges: [Black star]
- Emergency Response Centres: [Black circle]
- Waste & Water Treatment Works: [Blue circle]
- Hospitals: [Red cross]
- Primary Road, Single Carriageway: [Yellow line]
- Primary Road, Dual Carriageway: [Green line]
- Railway Train: [Black line with cross-ticks]
- A Road, Single Carriageway: [Brown line]

Rev.	Dr.	Date	Description

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Environment Agency

Lyndon House
85 Hagley Road
Edgbaston
Birmingham
B15 2JG

Central House
Village Green
Fradley Park
Leicestershire
LE12 6JG

Project:

RIVER TAME STRATEGY

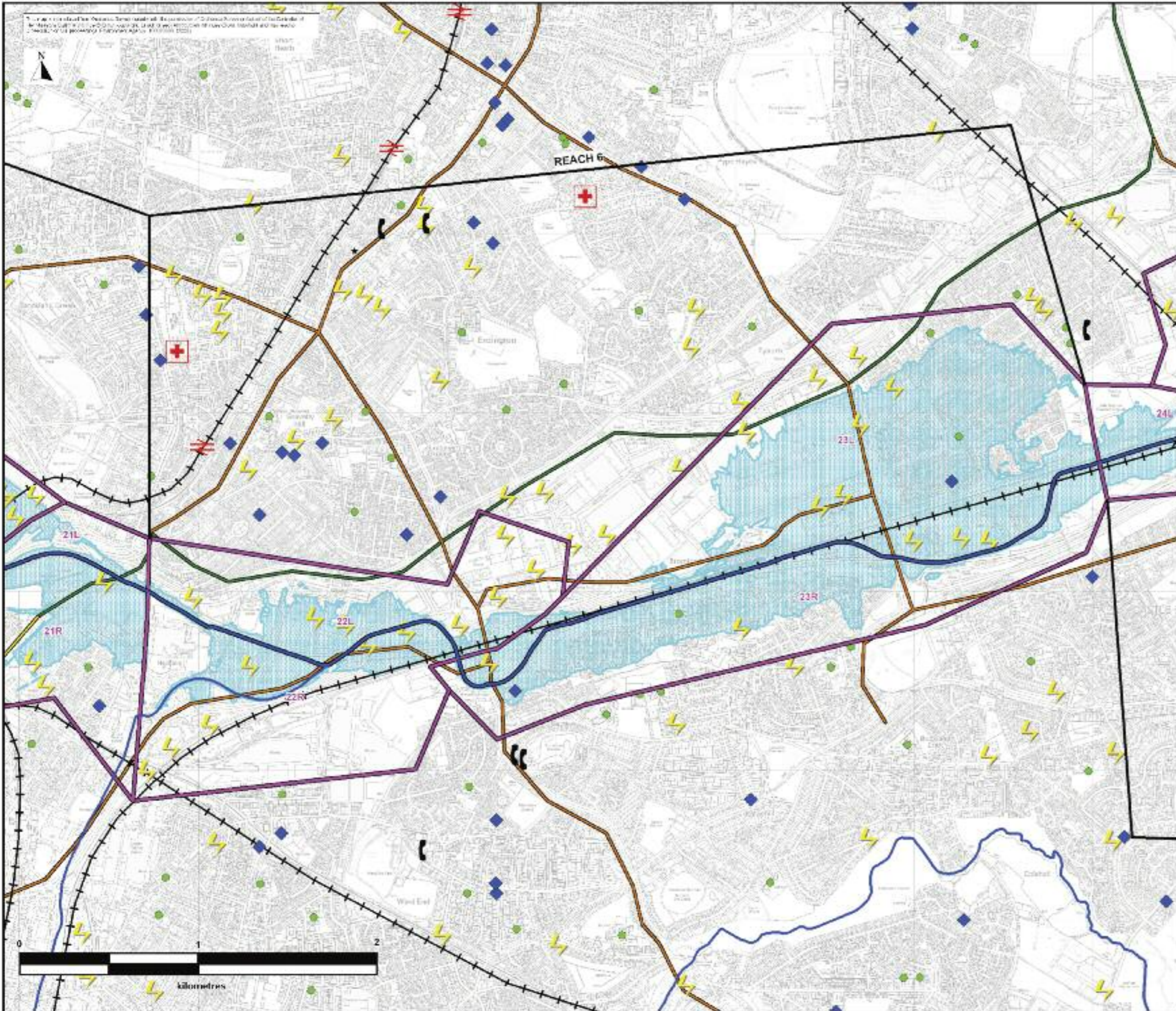
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 5**

Drawn By: A.J. Sykes	Date: 30 December 2000
Checked By: C. Wilson	Date: 30 December 2000
Approved By: J.R. Parkin	Date: 30 December 2000

Drawing No:	Revision:	Status:
WN/RTSU/ - FIGURE - 5e	-	FINAL

Drawing Scale: 1:15,000 Sheet No: 5 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach
- Flood Cell
- Watercourse
- 1% AEP 100 Year Flood Outline Confined
- Power & Gas Stations
- Schools
- Care Homes
- Traffic Stations
- Temporary Exchanges
- Emergency Response Centres
- Waste & Water Treatment Works
- Hospitals
- Winery Road, Single Carriageway
- Winery Road, Dual Carriageway
- Railway Train
- A Road, Single Carriageway

Rev.	Dr.	Date	Description

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 85 Hagley Road
 Edgbaston
 Birmingham
 B15 2JG

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 Wellington Green
 Dudley Park
 Leabrook
 WOLVERHAMPTON

Project:

RIVER TAME STRATEGY

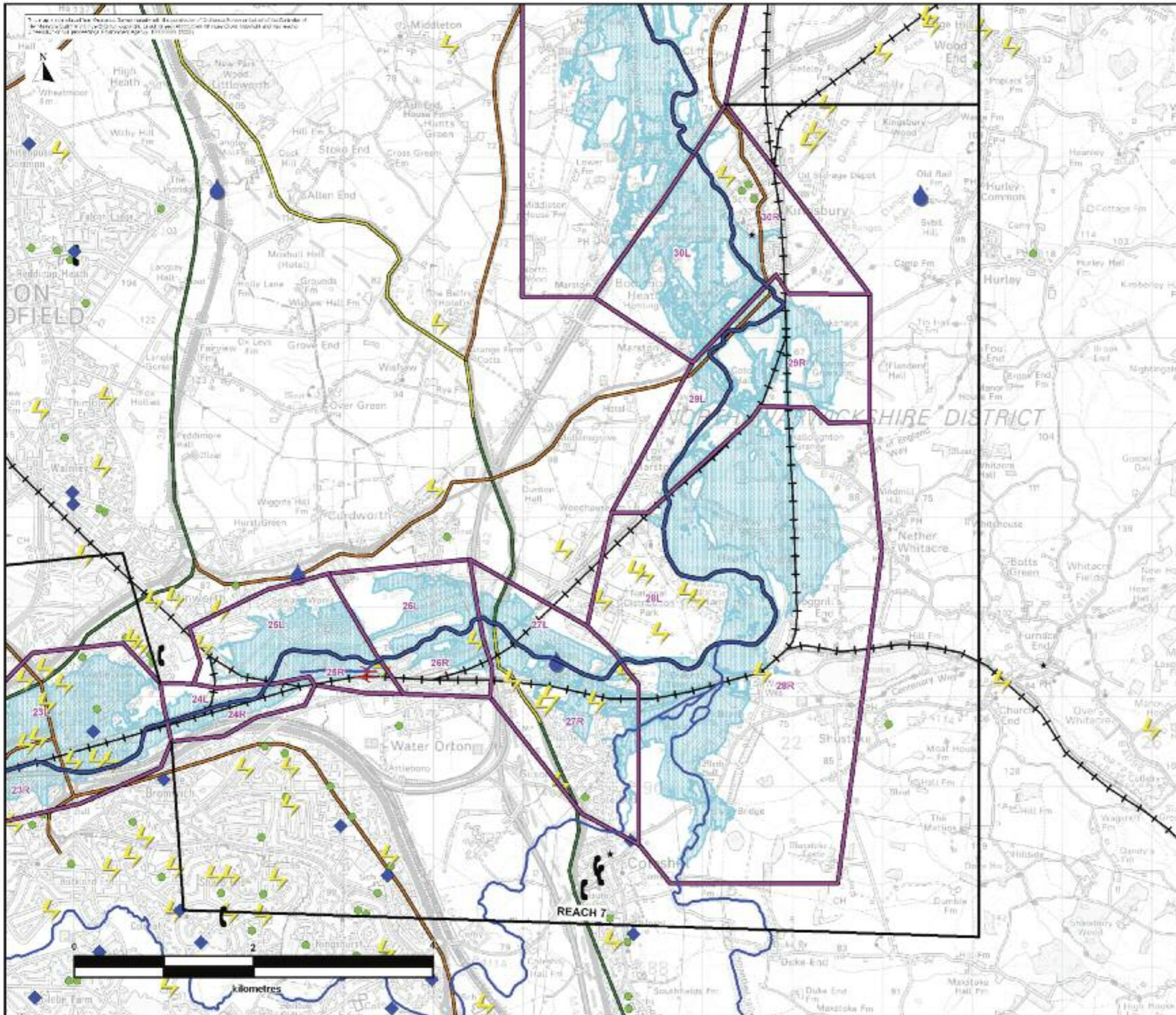
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 6**

Drawn By: A.J. Styles	Date: 10 December 2000
Checked By: C. Wilson	Date: 10 December 2000
Approved By: J.R. Parkin	Date: 10 December 2000

Drawing No:	Revision:	Status:
WN/RTSU/ - FIGURE - 5F	-	FINAL

Drawing Scale: 1:25,000 Sheet No: 6 of 8 File Scale: 1:1 @ A3



Location Plan

Legend

- Reach
- Road Cat
- Watercourse
- 1% AEP 100 Year Flood Outline
- Bus & Gas Stations
- Schools
- Care Homes
- Railway Stations
- Timber Bridges
- Emergency Response Centres
- Sewage & Water Treatment Works
- Hospitals
- Riverside Paths, Single Carriageway
- Riverside Paths, Dual Carriageway
- Railway Tracks
- A Road Slips Carriageway

Rev.	Dr.	Date	Description

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Environment Agency

Lyndon House
85 Hagley Road
Edgbaston
Birmingham
B15 2JG

Central House
Village Green
Ridley Park
Leamington
CV32 9JG

Project:

RIVER TAME STRATEGY

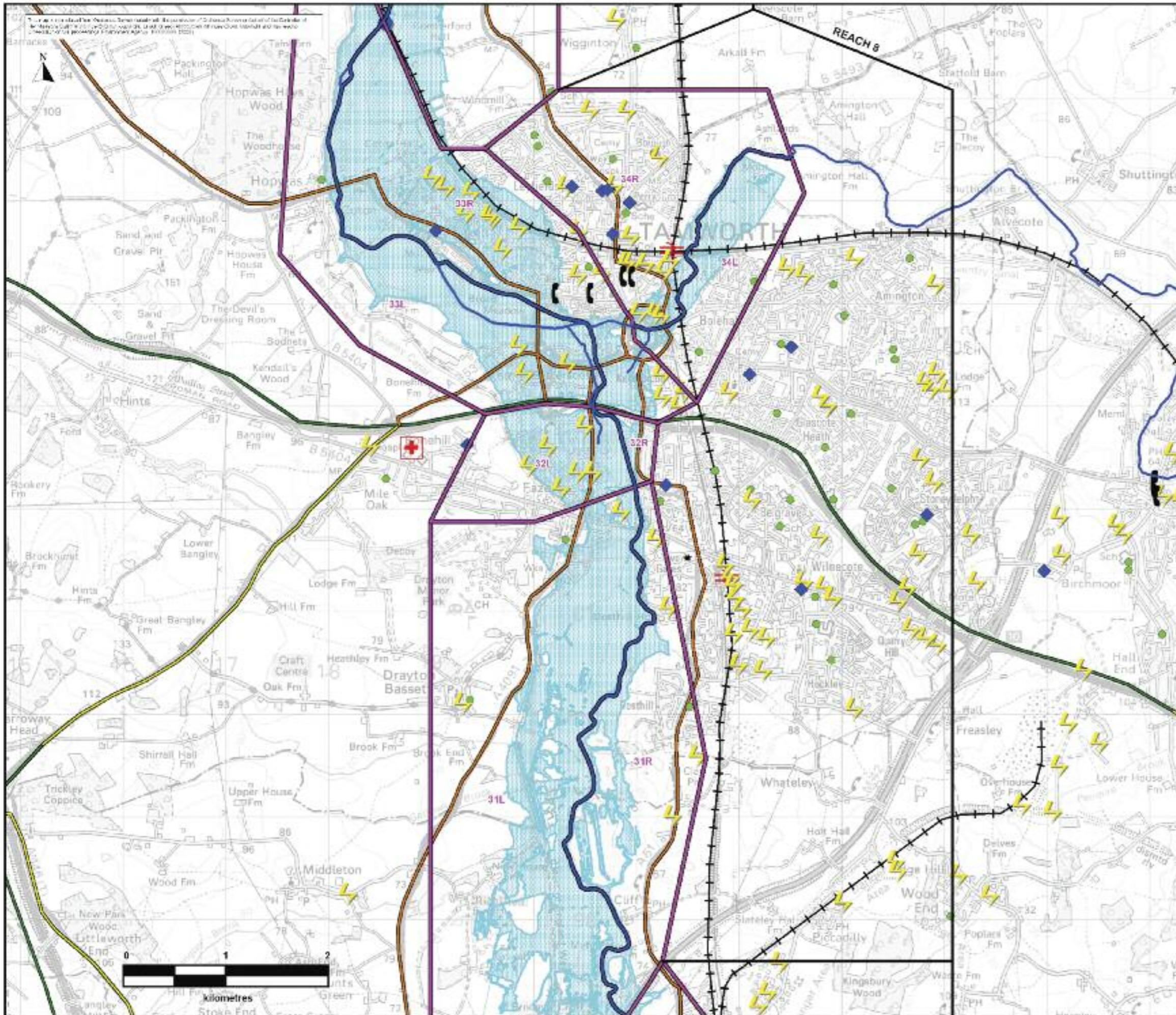
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 7**

Drawn By: A.J. Owen	Date: 10 December 2010
Checked By: C. Wilson	Date: 10 December 2010
Approved By: J.R. Parkin	Date: 10 December 2010

Drawing No: WINRTSU - FIGURE - 5g	Revision: -	Status: FINAL
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Drawing Scale: 1:40,000 Sheet No: 7 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach
- Flood Cell
- Watercourse
- 1% AEP 100 Year Flood Outline
- Road & Gas Stations
- Schools
- Care Homes
- Traffic Stations
- Temporary Exchanges
- Emergency Response Centres
- Waste & Water Treatment Works
- Hospitals
- Primary Road, Single Carriageway
- Primary Road, Dual Carriageway
- Roadway Tunnels
- A Road, Single Carriageway

Rev.	Dr.	Date	Description

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Environment Agency

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101 Hagley Road
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Birmingham
B15 2JG

Central House
Village Green
Radley Park
Leitchville
WV10 3JG

Project:

RIVER TAME STRATEGY

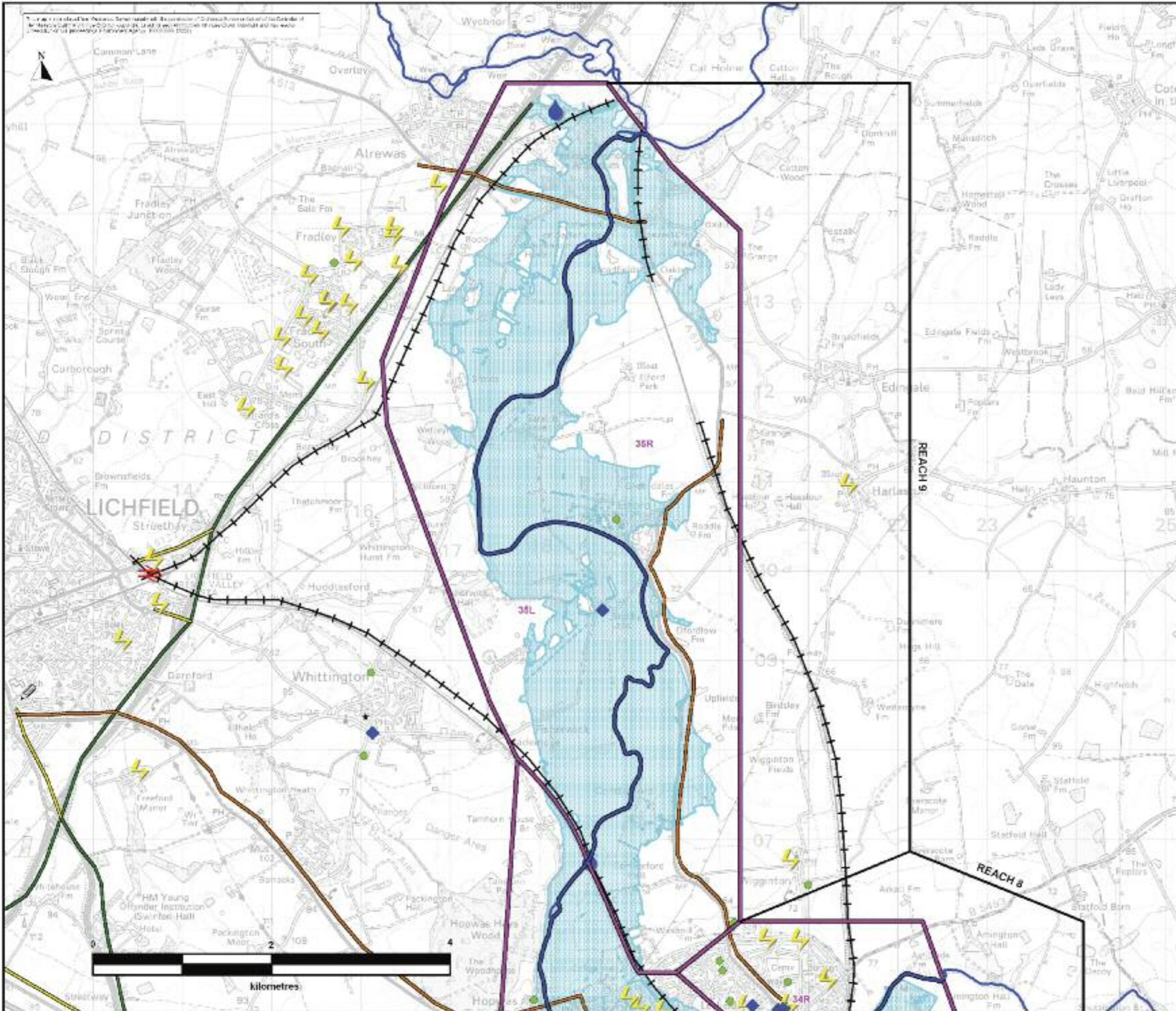
Drawing:

**CRITICAL INFRASTRUCTURE
REACH 8**

Drawn By: A.J. Owen	Date: 10 December 2010
Checked By: C. Wilson	Date: 10 December 2010
Approved By: J.R. Parkin	Date: 10 December 2010

Drawing No:	Revision:	Status:
WN/RTSU - FIGURE - 5h	-	FINAL

Drawing Scale: 1:25,000 Sheet No: 1 of 8 Plot Scale: 1:1 @ A3



Location Plan

Legend

- Reach: [Thick black line]
- Flood Out: [Thick purple line]
- Watercourse: [Blue line]
- 1% AEP (100 Year Flood Out) Contour: [Blue hatched area]
- Road & Gas Stations: [Yellow lightning bolt]
- Schools: [Green circle]
- Care Homes: [Blue diamond]
- Traffic Stations: [Red cross]
- Transfer Exchanges: [Black star]
- Emergency Response Centres: [Black circle]
- Waste & Water Treatment Works: [Blue circle]
- Hospitals: [Red cross]
- Primary Road, Single Carriageway: [Yellow line]
- Primary Road, Dual Carriageway: [Green line]
- Railway Train: [Black line with cross-ticks]
- A Road, Single Carriageway: [Brown line]

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Environment Agency

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Project:

RIVER TAME STRATEGY

Drawing:

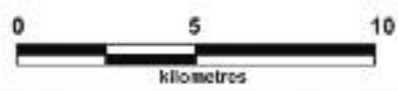
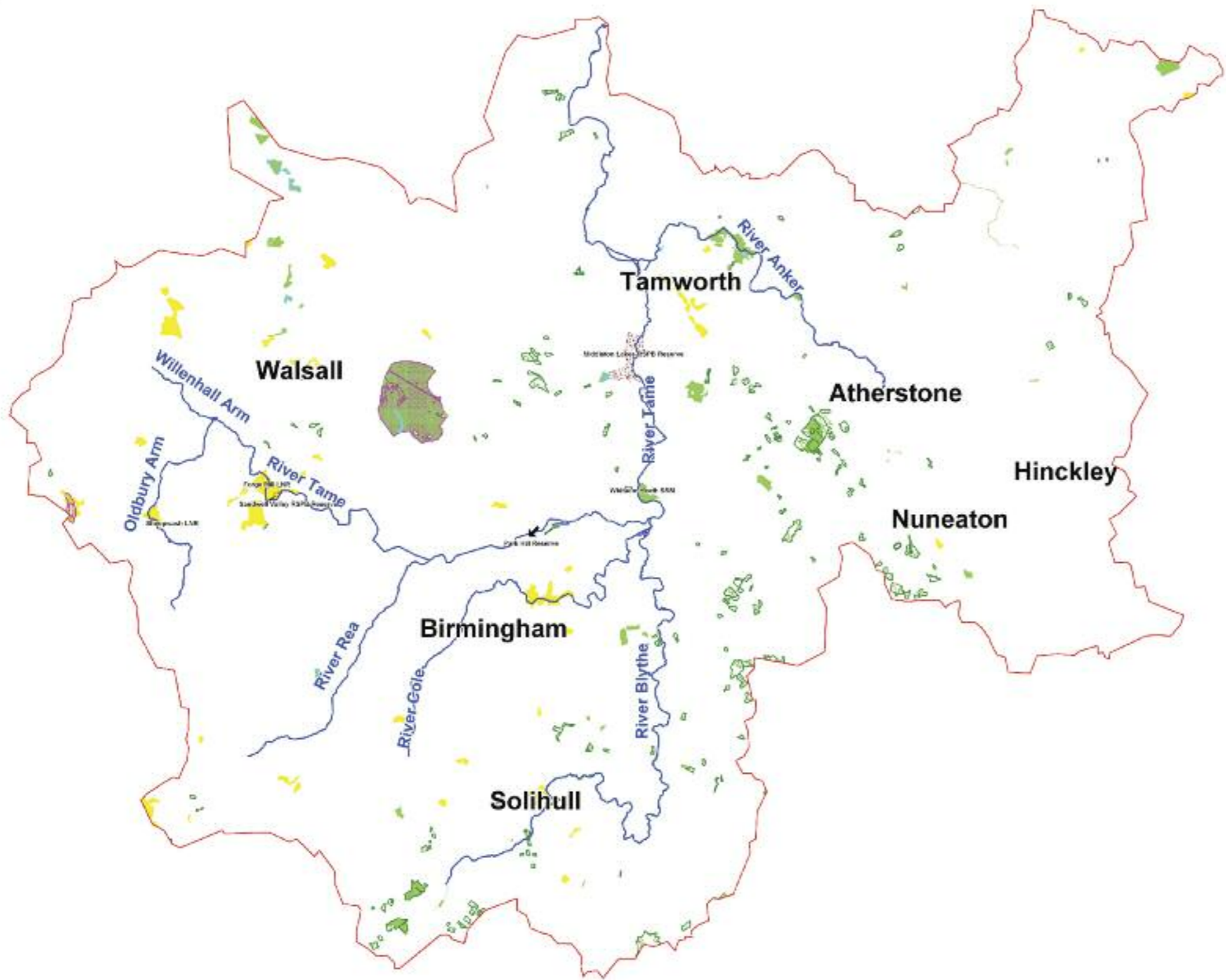
CRITICAL INFRASTRUCTURE REACH 9

Drawn By: A.J. Sykes	Date: 10 December 2010
Checked By: C. Wilson	Date: 10 December 2010
Approved By: J.R. Parkin	Date: 10 December 2010

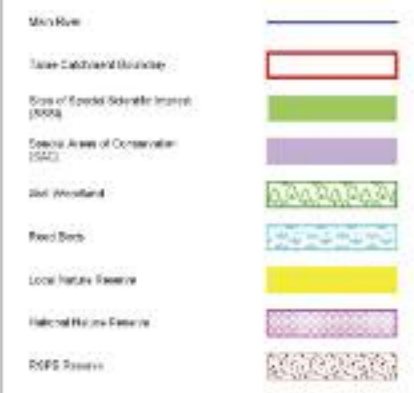
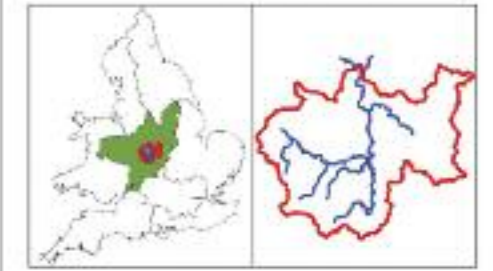
Drawing No.: WN/RTSU/ - FIGURE - 51	Revision: -	Status: FINAL
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Drawing Scale: 1:43,000 Sheet No.: 5 of 8 Plot Scale: 1:1 @ A3

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Location Plan:



Rev.	By	Date	Description



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60 Hockley Street
Edinburgh
EH1 1SR



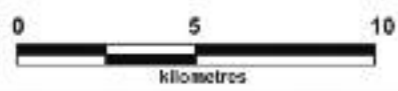
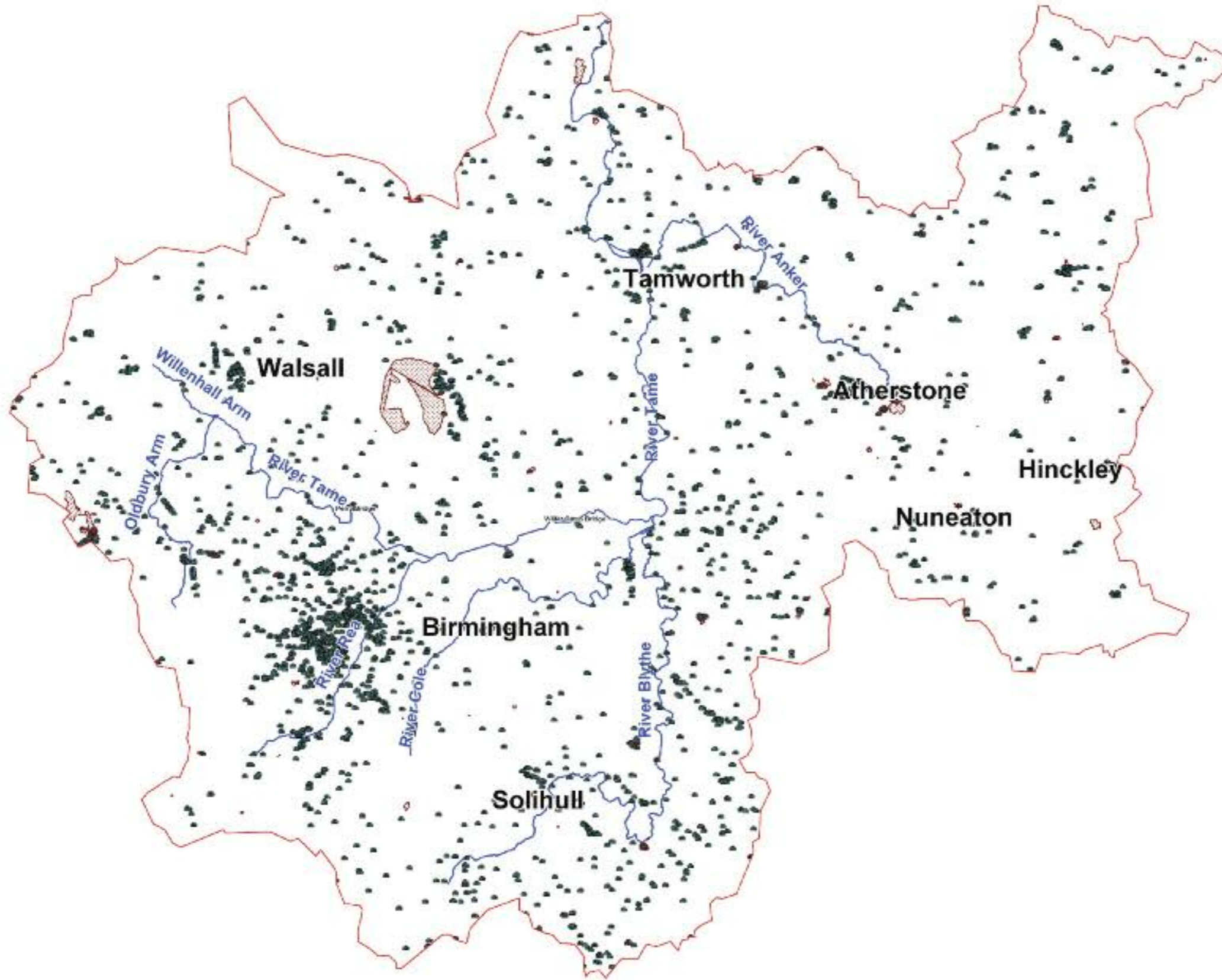
Central House
Waterloo Square
Leeds
LS1 3BQ

Project:
RIVER TAME STRATEGY

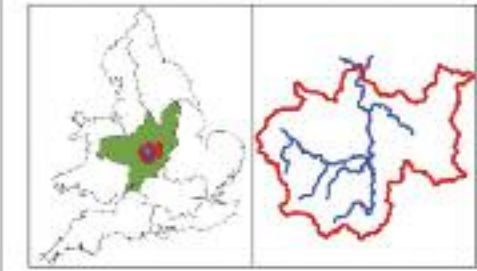
Client:
**RIVER TAME
BIODIVERSITY, FLORA AND FAUNA**

Drawn By:	A. Rye	Date:	12 December 2016
Checked By:	C. White	Date:	12 December 2016
Approved By:	J. R. Hall	Date:	12 December 2016
Drawing No:		Revision:	
WNRTSLU - FIGURE - 6			FINAL
Drawing Scale:	1:25,000	Sheet No.:	1 of 1
		Plot Date:	14/12/16

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Location Plan:



- Min. Riv.
- Town Catchment Boundary
- Land Buildings
- Placement of Schools Placement

No.	By	Date	Description



London House
80 Hockley Street
E1 1NS
Birmingham
B1 1PL



Central House
Waterloo Square
Leeds
LS1 3BQ

Project:

RIVER TAME STRATEGY

Client:

**RIVER TAME
ARCHAEOLOGY & CULTURAL HERITAGE**

Drawn By: A. R. Yell Date: 12 December 2016

Checked By: C. Wicks Date: 12 December 2016

Approved By: J. R. Fother Date: 12 December 2016

Drawing No: WVRTSLA - FIGURE - 7 Project: Status: FINAL

Drawing Scale: 1:20,000 Sheet No: 1 of 1 Plot Date: 14/12/16