

January 2024

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents
5.03 Chapter 20 Water Resources and Flood Risk Figures
20.1 - 20.7

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

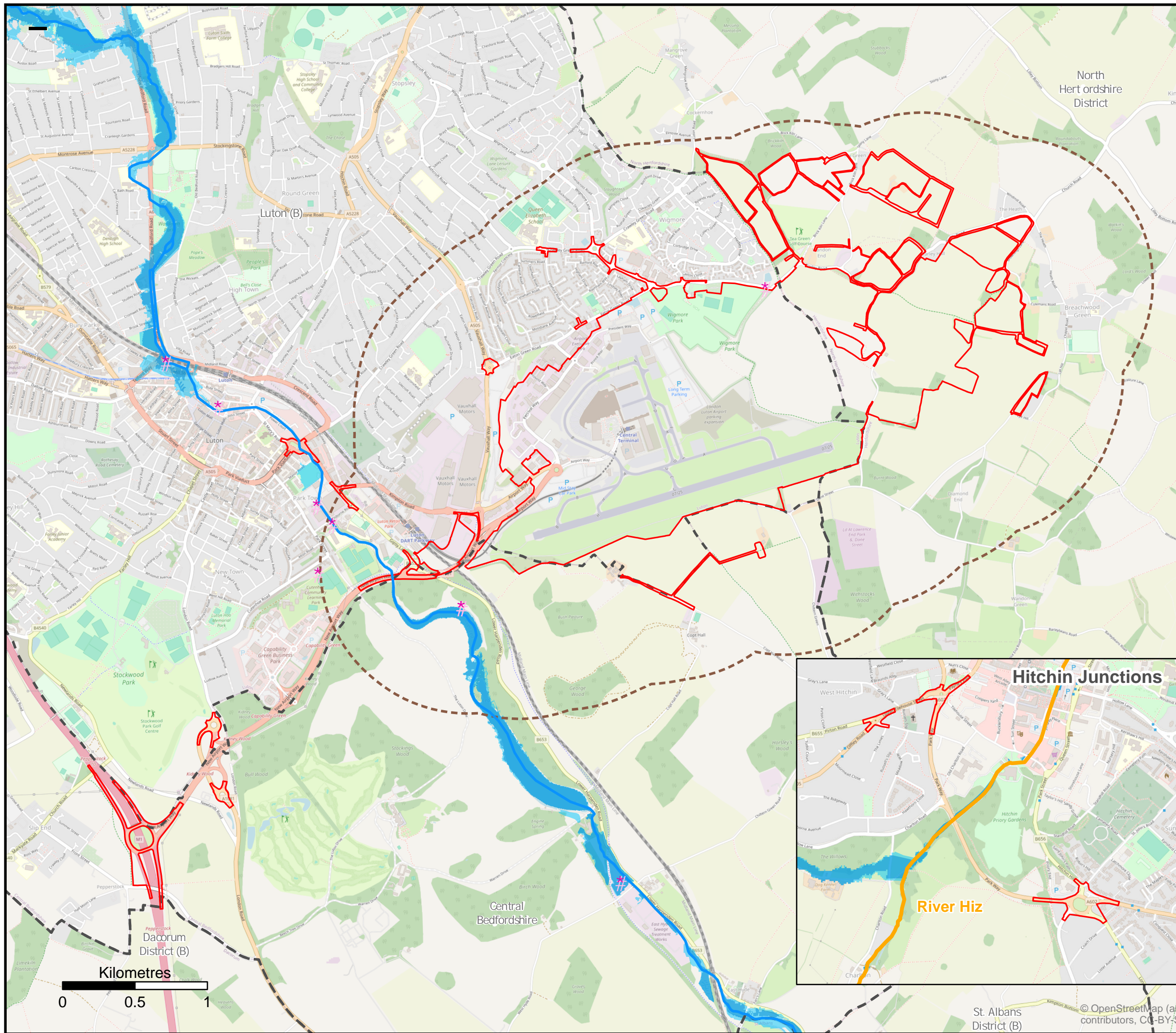
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

London Luton Airport Expansion Development Consent Order 202x

5.03 ENVIRONMENTAL STATEMENT CHAPTER 19 WATER RESOURCES AND FLOOD RISK FIGURES 20.1 – 20.7

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.03
Author:	Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue
Revision 01	April 2023	Additional submissions (amended following section 51 advice)
Revision 02	January 2024	Additional submission - Deadline 9



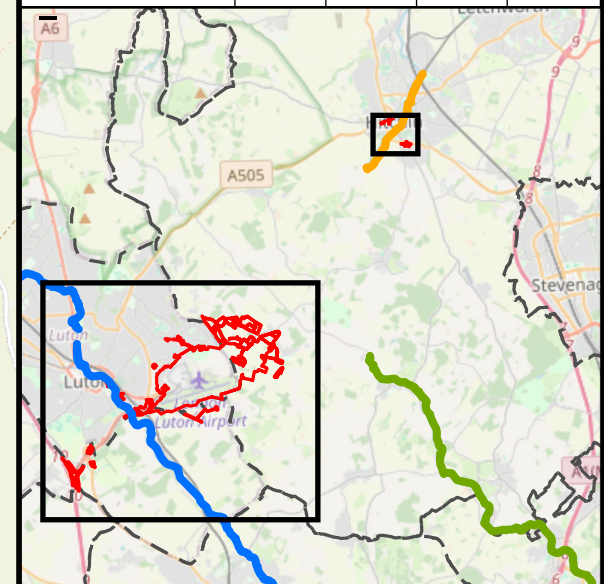
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All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

Legend

- Order Limits
 - Local Authority Boundaries
 - Main Application Site 1km Buffer
 - * Surface Water Discharge Consents
- Main Rivers Flood Map**
- Flood Zone 2
 - Flood zone 3
- Waterway**
- River Hiz
 - River Mmram
 - River Lee

Additional Submission - Deadline 9	AB	TG	CS	30/01/24	P02
First Issue	AB	TG	CS	18/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.



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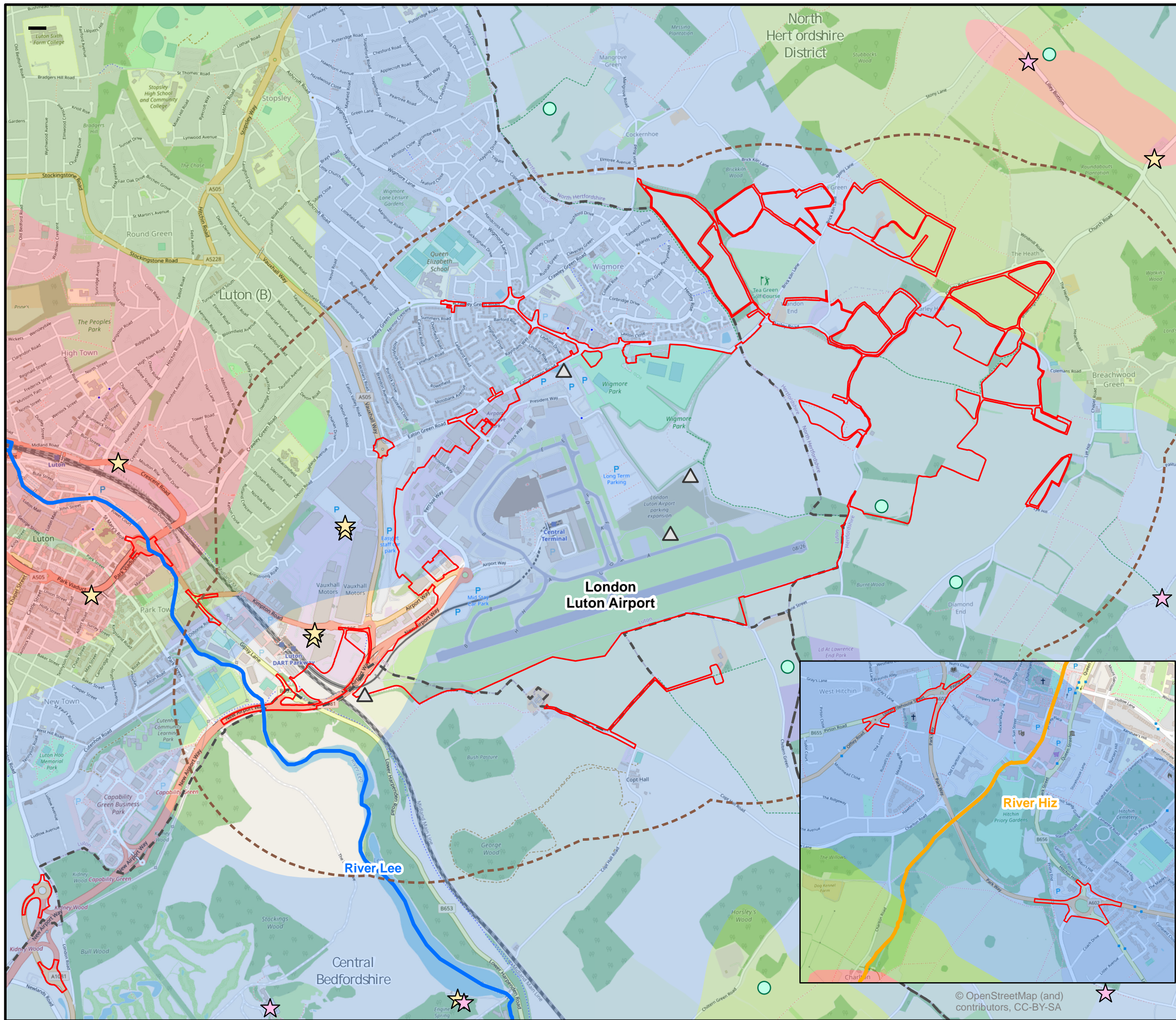
Drawing Title
Figure 20.1 Risk of Flooding from River and Sea (EA dataset)

Purpose of issue	Additional Submission – Deadline 9	Suitability			
Drawn	Checked	Approved	Date	Scale	Size
AB	TG	CS	30/01/24	1:25,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-ARP-0000-DR-YE-0298	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type - Discp. - Number	

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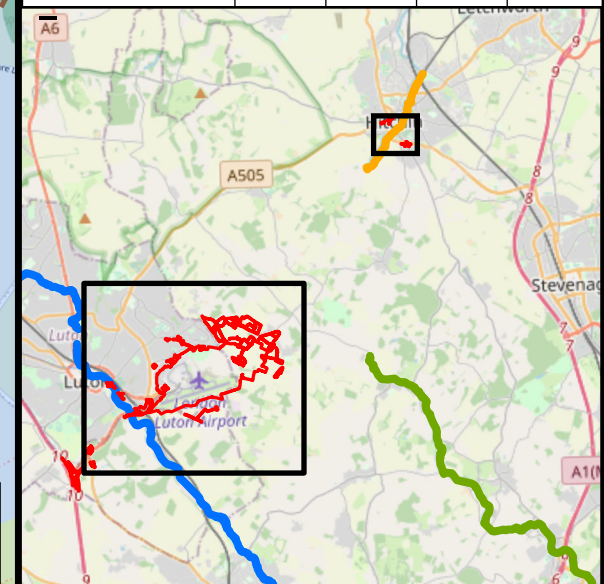


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- Legend**
- Order Limits
 - Main Application Site 1km Buffer
 - Local Authority Boundaries
 - ▲ Active Groundwater Discharges
 - ★ Private Water Abstractions
 - ★ Licensed Groundwater Abstractions
 - Potential Spring Locations
- Source Protection Zones**
- Inner zone
 - Outer zone
 - Total catchment
- Waterway**
- River Hiz
 - River Mimram
 - River Lee

Amended following section 51 advice	AB	TG	CS	04/04/23	P02
First Issue	AB	TG	CS	18/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.



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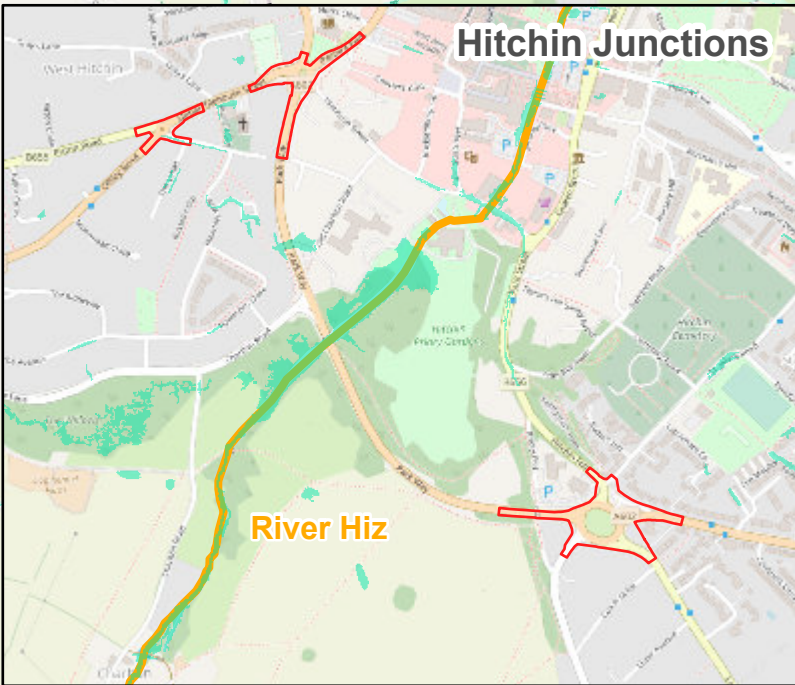
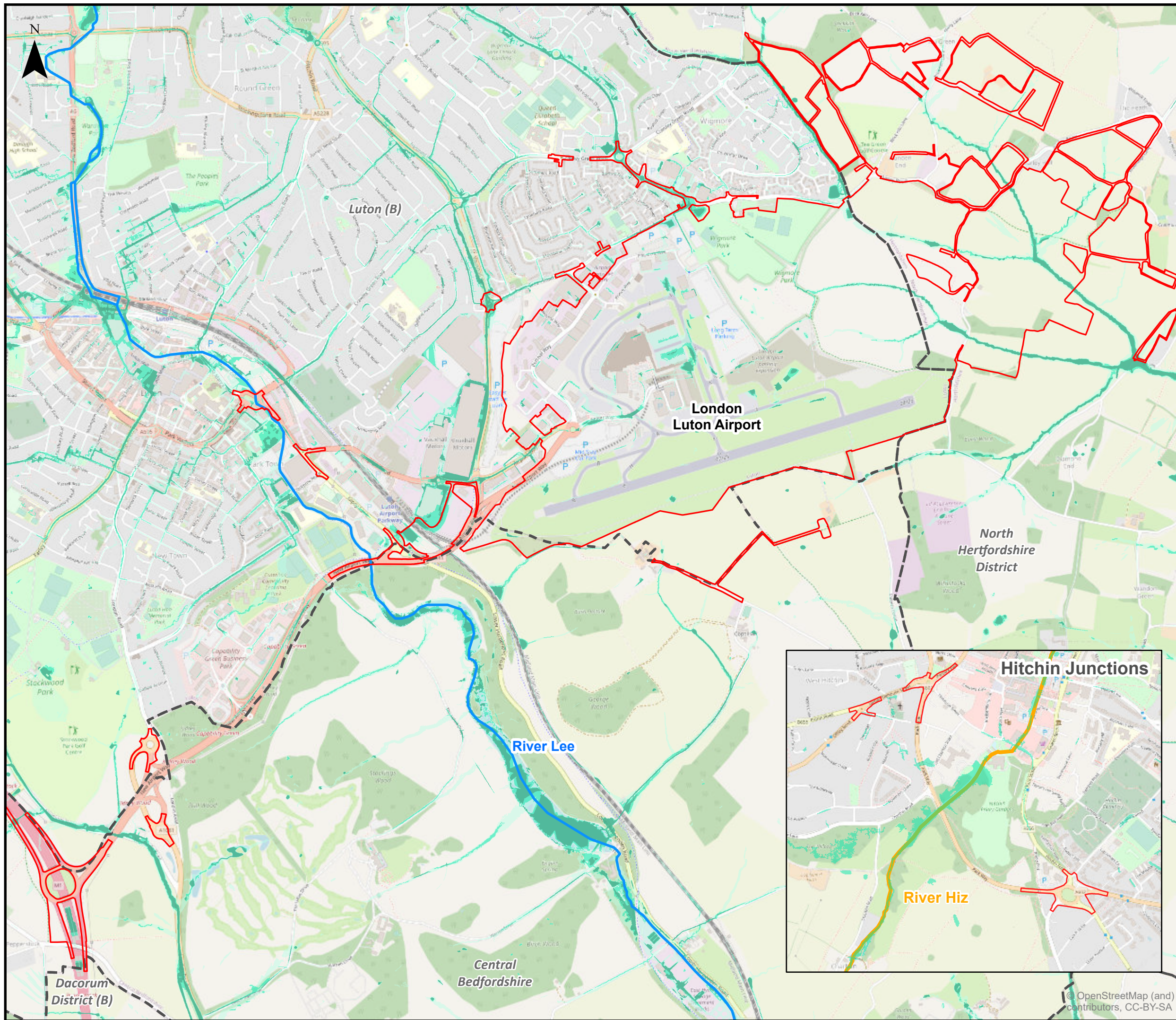
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Drawing Title
Figure 20.2 Groundwater Features

Purpose of issue				Suitability	
Additional submissions (amended following section 51 advice)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	TG	CS	04/04/23	1:20,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-ARP-0000-DR-VE-0299	P02
Project - Phase - Originator - Asset/Zone - Sub-Asset - Type - Disc. - Number	



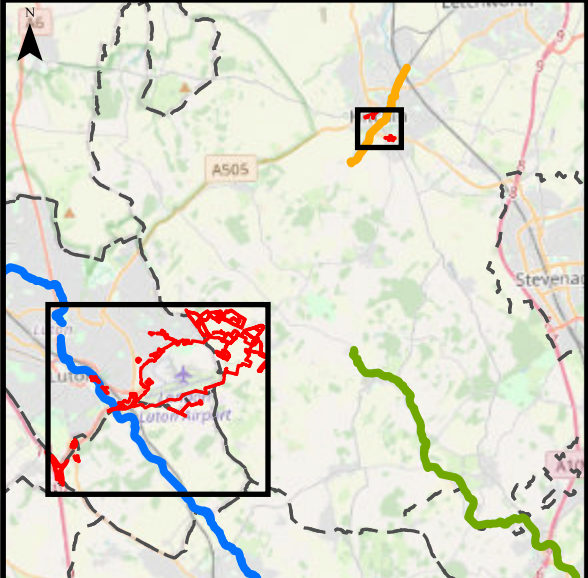
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Legend

- Order Limits
- Local Authority Boundaries
- Surface Water Flood Risk**
- High Risk
- Medium Risk
- Low Risk
- Waterway**
- River Hiz
- River Mimram
- River Lee

First Issue	AB	TG	CS	18/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.



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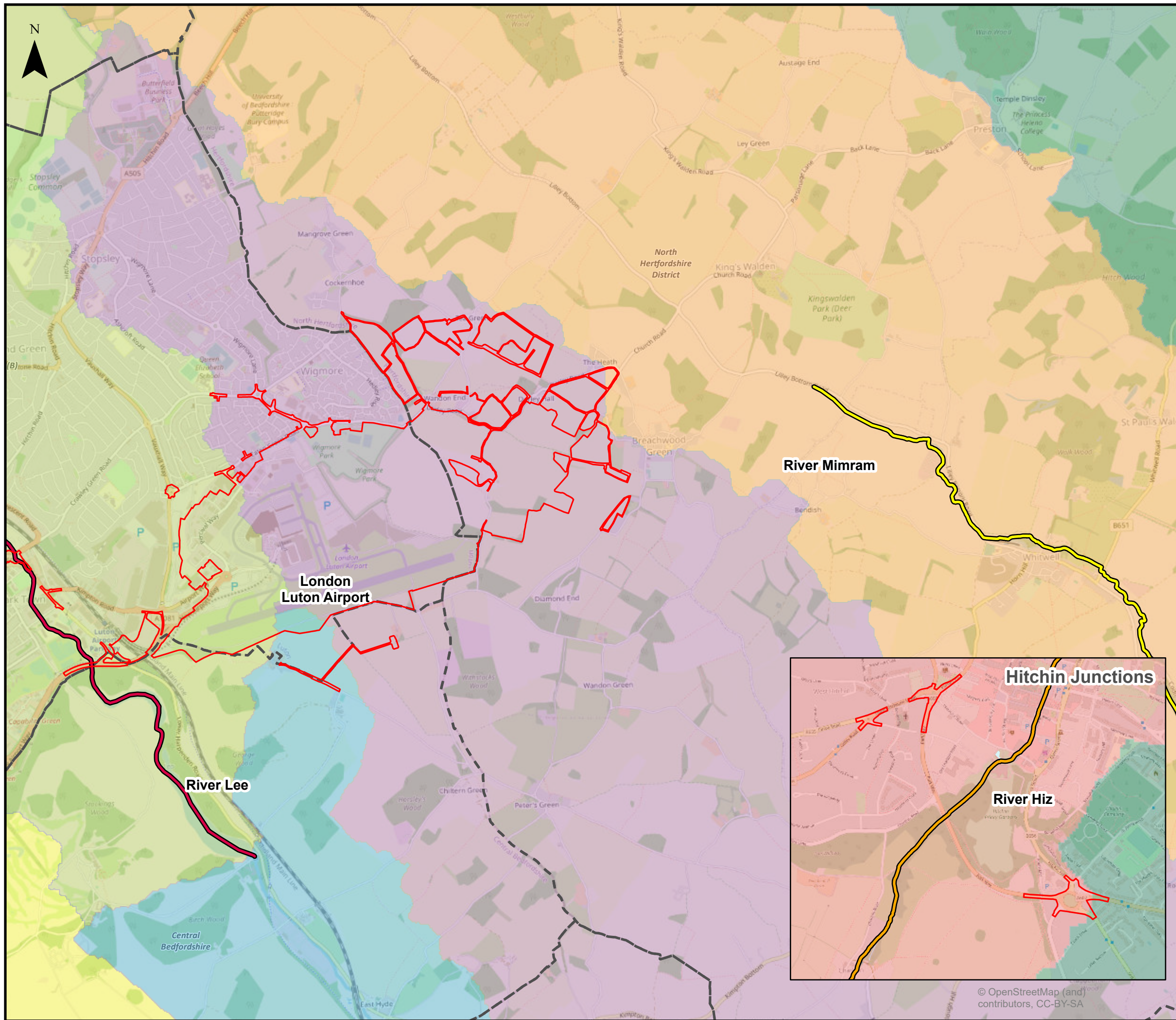
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Drawing Title
Figure 20.3 Surface Water (Pluvial) Flood Risk

Purpose of issue			Suitability		
SUITABLE FOR INFORMATION			S2		
Drawn	Checked	Approved	Date	Scale	Size
AB	TG	CS	18/01/23	1:20,000	A3
DCO Application Ref.		APFP Regulation	DCO Document Ref.		
TR020001		APFP 5(2)(a)	TR020001/APP/5.03		
Drawing Number					Revision
LLADCO-3C-ARP-00-00-DR-YE-0300					P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number					

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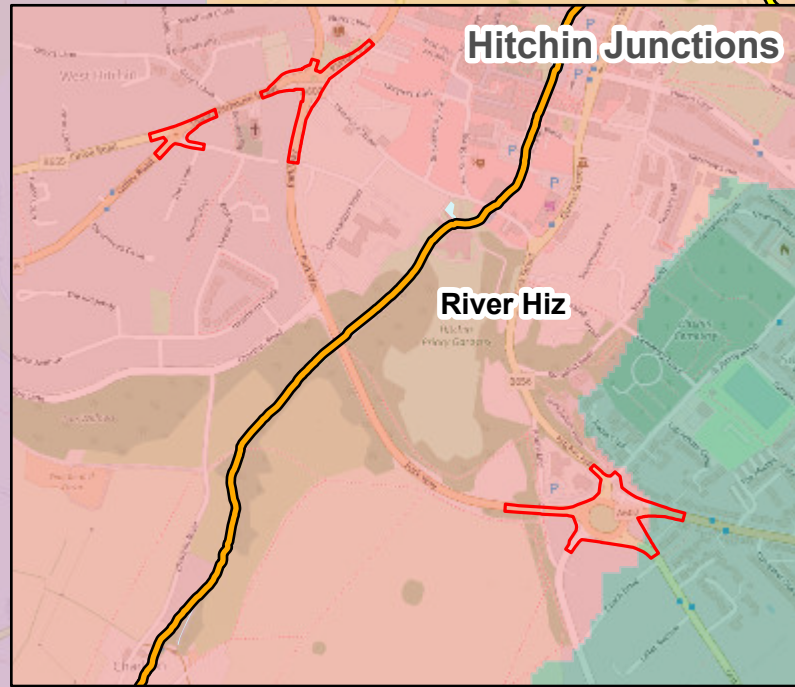
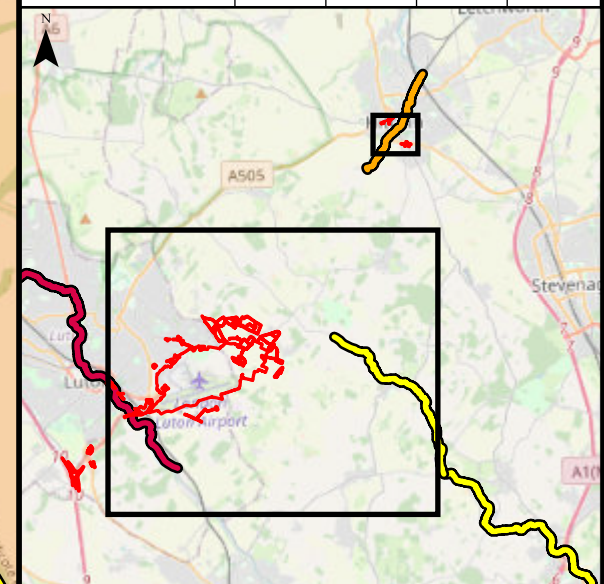
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Legend

- Order Limits
- Local Authority Boundaries
- Overall Status Classification (2019 River Basin Management Plans (RBMPs) Cycle 2)**
- Moderate
- Poor
- Bad
- Water Framework Directive (WFD) surface water body catchments - Cycle 2**
- Hiz (through Hitchin)
- Lee (from Luton Hoo Lakes to Hertford)
- Lee (from Luton to Luton Hoo Lakes)
- Mimram (Codicote Bottom to Lee)
- Mimram (Whitwell to Codicote Bottom)
- Purwell
- Upper Colne and Ellen Brook

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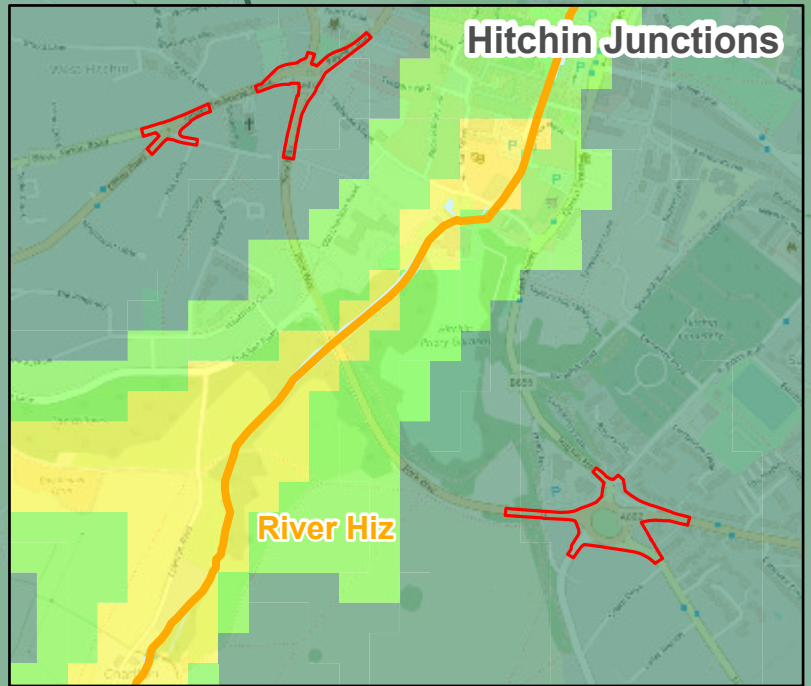
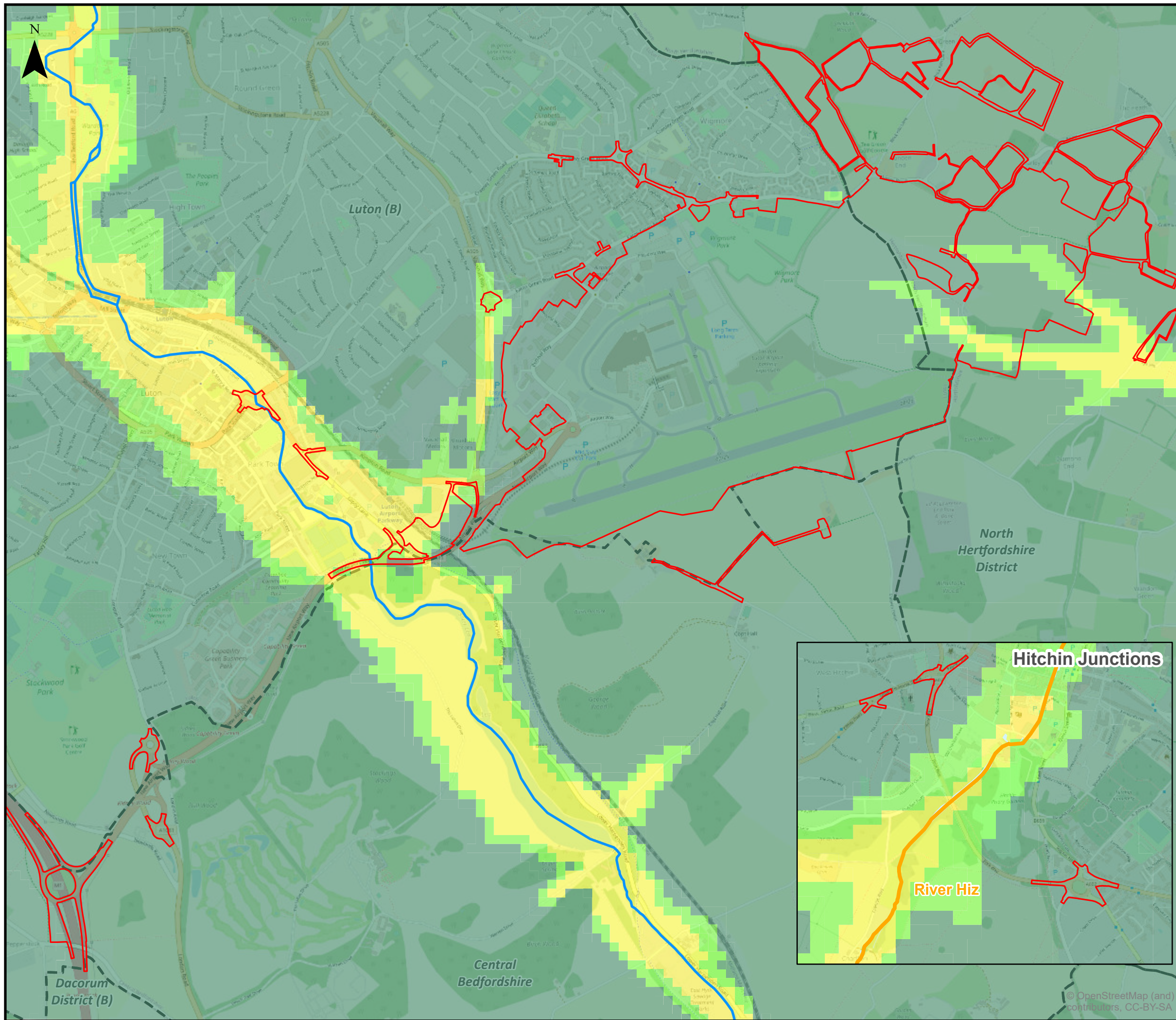
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Drawing Title
 Figure 20.4 Water Framework Directive (WFD) Water Bodies

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn AB	Checked TG	Approved CS	Date 18/01/23	Scale 1:30,000	Size A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Legend

- Order Limits
- Local Authority Boundaries

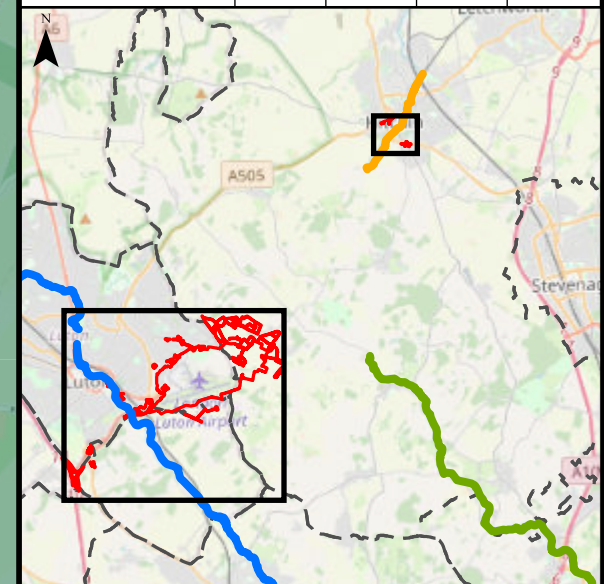
Waterway

- River Hiz
- River Mimram
- River Lee

British Geological Survey (BGS) Groundwater Flood Risk

- 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

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Drawing Title
Figure 20.5 Susceptibility to Groundwater Flooding

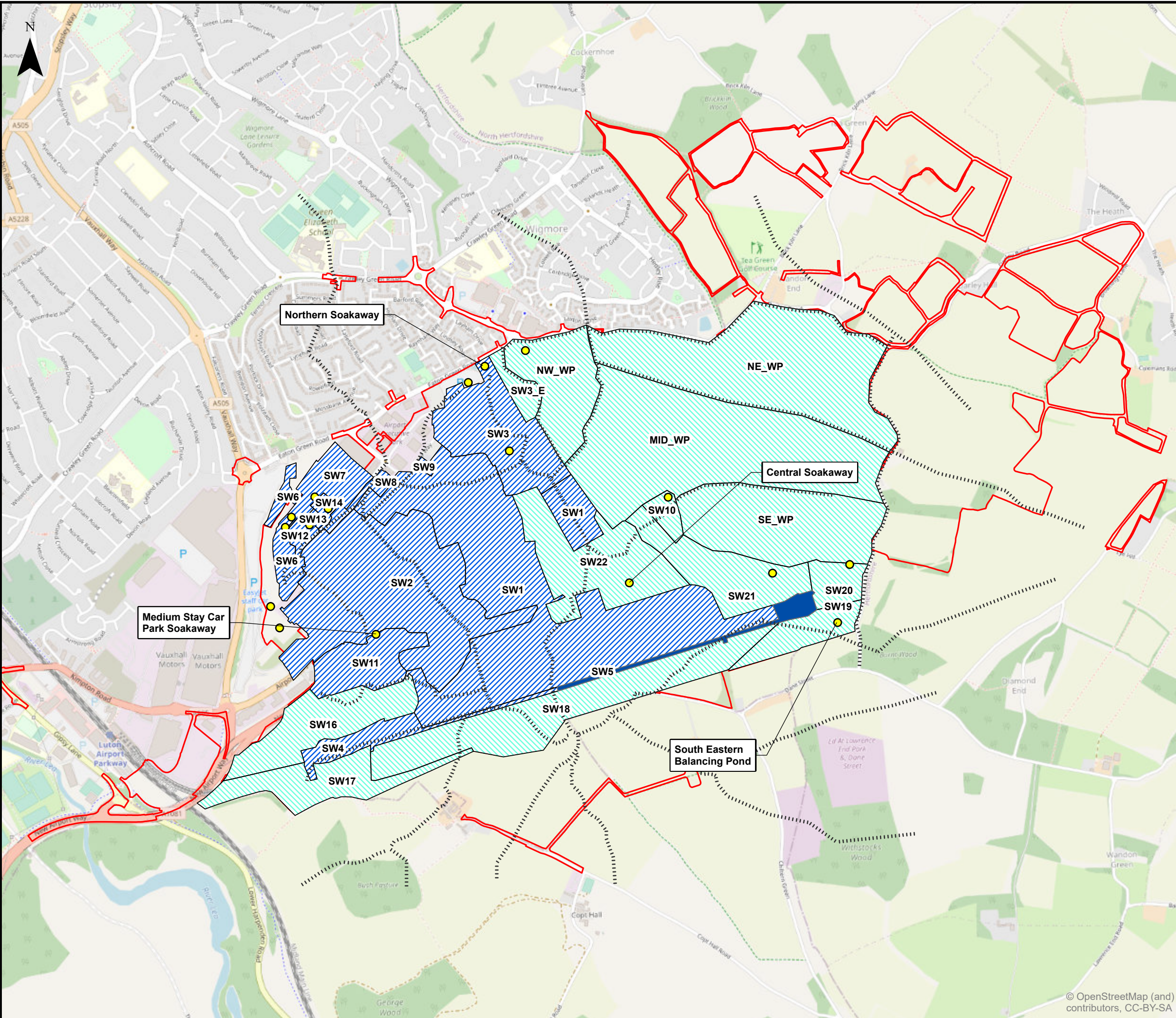
Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn AB	Checked TG	Approved CS	Date 18/01/23	Scale 1:20,000	Size A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Legend

- Order Limits
- Existing soakaways
- Topographical watershed
- Actively drained
- Infiltration
- Balancing pond

Acronym	Definition
MID	Central Wigmore Park
NE	North East of Wigmore Park
NW	North West of Wigmore Park
SE	South East of Wigmore Park
SW	South West of Wigmore Park
WP	Wigmore Park

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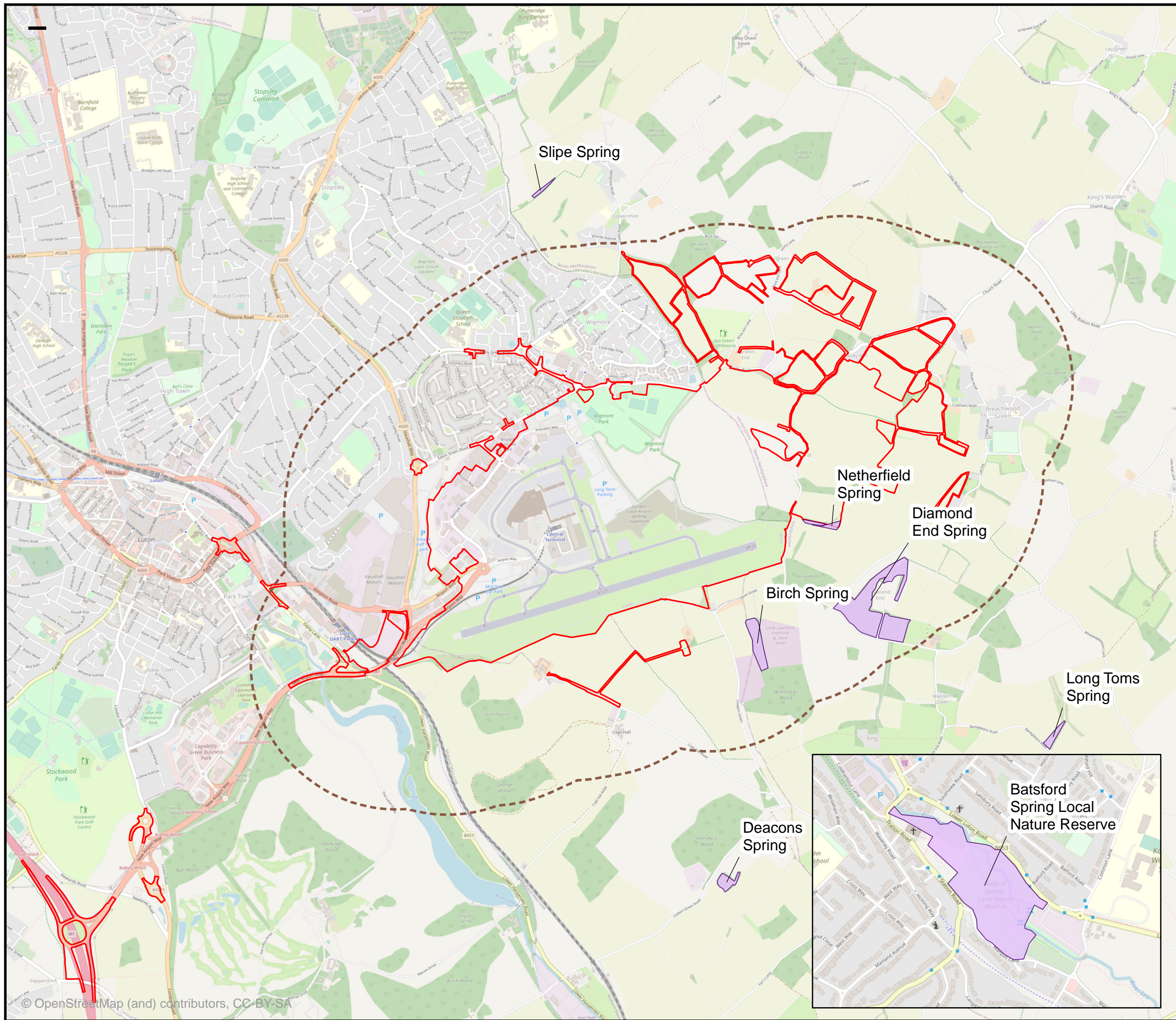
Drawing Title
Figure 20.6 Existing Drainage Catchments

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn AB	Checked TG	Approved CS	Date 18/01/23	Scale 1:15,000	Size A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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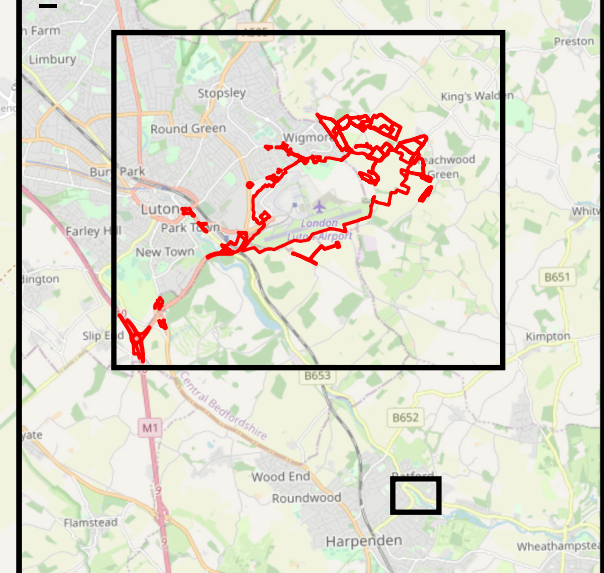
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Legend

- Order Limits
- Main Application Site 1km Buffer
- Potential Groundwater Dependent Terrestrial Ecosystems (GWDEs)

Note that no Environment Agency designated GWDE sites are located within 1km of the Order Limits

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Drawing Title
Figure 20.7 Groundwater Dependent Terrestrial Ecosystems

Purpose of issue				Suitability		
Additional submissions (amended following section 51 advice)				S2		
Drawn	Checked	Approved	Date	Scale	Size	
AB	TG	CS	04/04/23	1:25,000	A3	

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TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
LLADCO-3C-ARP-0000-DR-YE-0304	P01
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