

February 2023

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 - 20.6

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

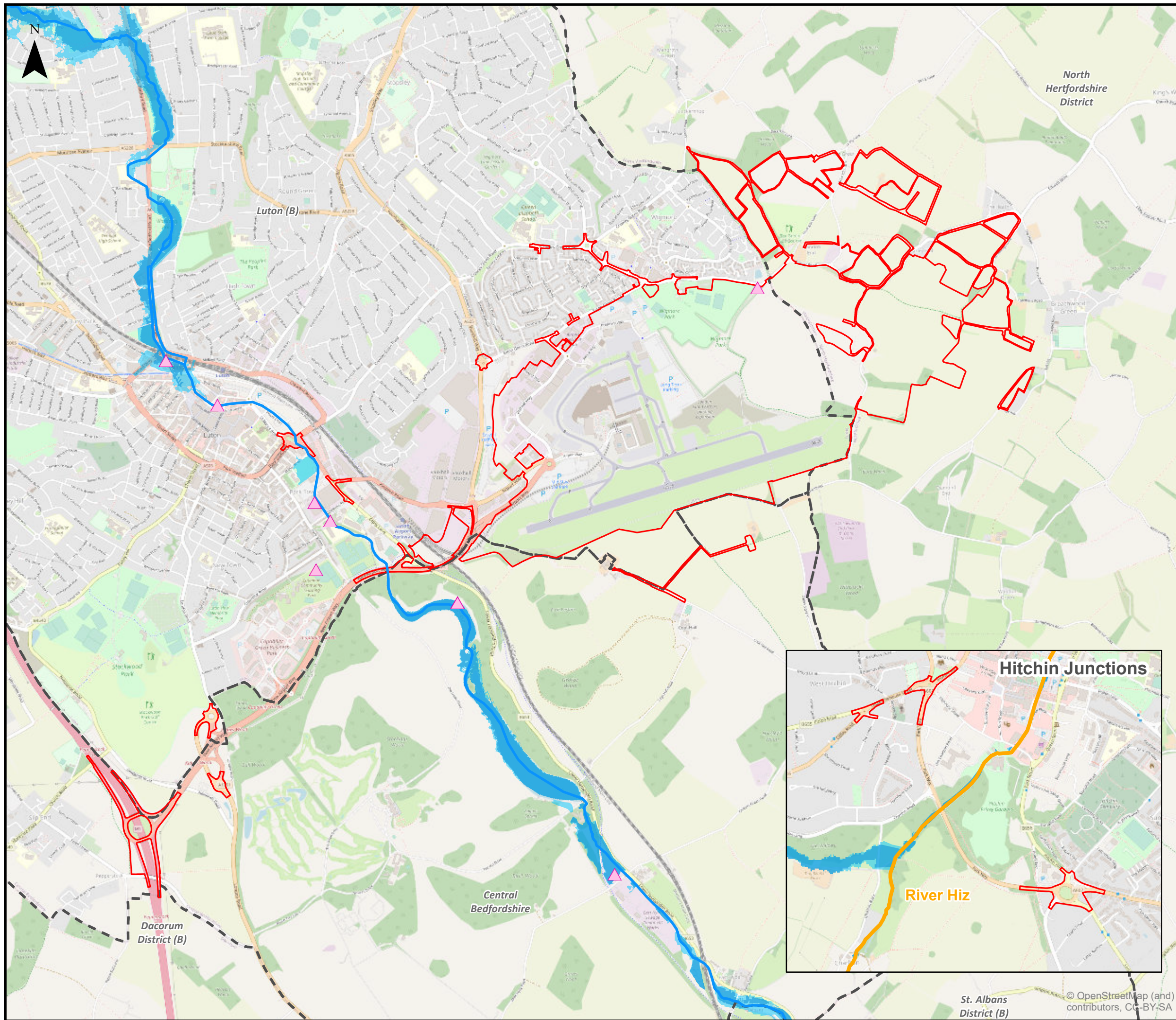
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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5.03 ENVIRONMENTAL STATEMENT CHAPTER 20 WATER RESOURCES AND
FLOOD RISK FIGURES 20.1 – 20.6

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



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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

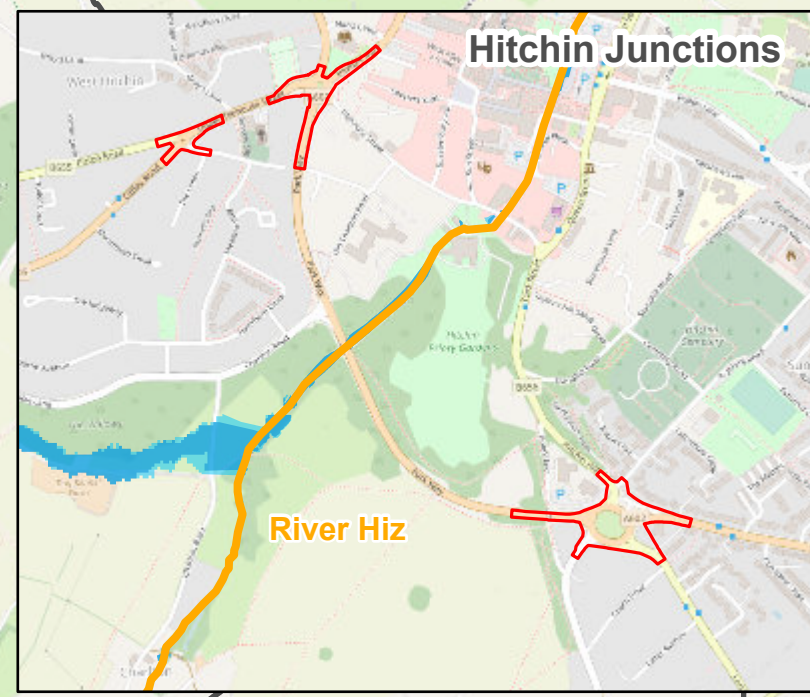
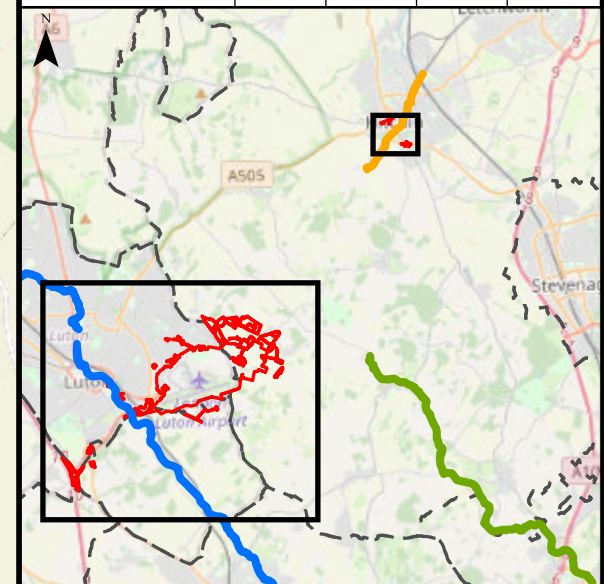
Main Rivers Flood Map

- Flood Zone 2
- Flood zone 3

Waterway

- River Hiz
- River Mimram
- River Lee

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)

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North Hertfordshire District

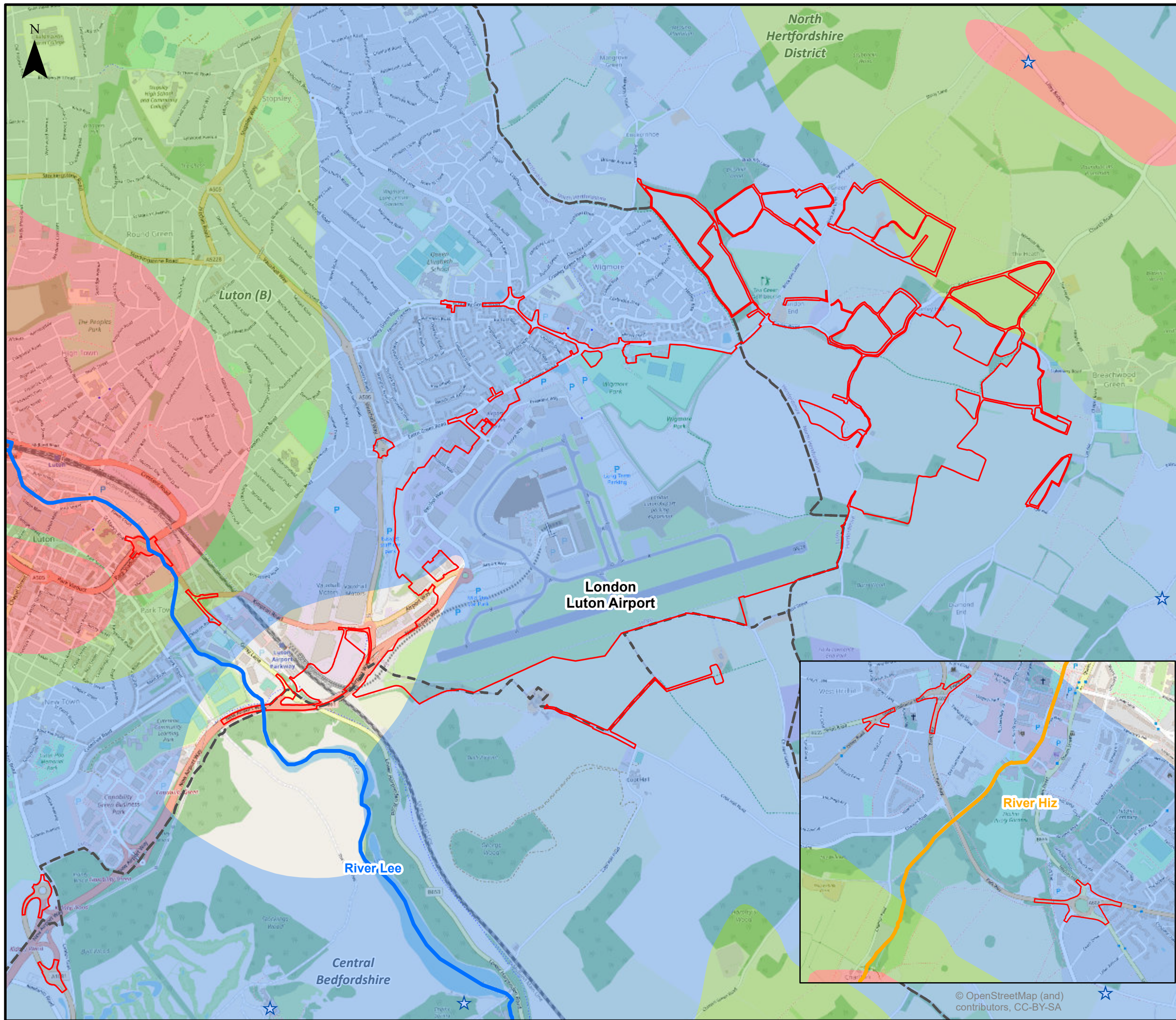
Luton (B)

Central Bedfordshire

Dacorum District (B)

St. Albans District (B)

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Legend

- Order Limits
- Main Application Site 1km Buffer
- Local Authority Boundaries
- ★ Private Water Abstractions
- ★ Groundwater Abstractions
- Potential Spring Locations

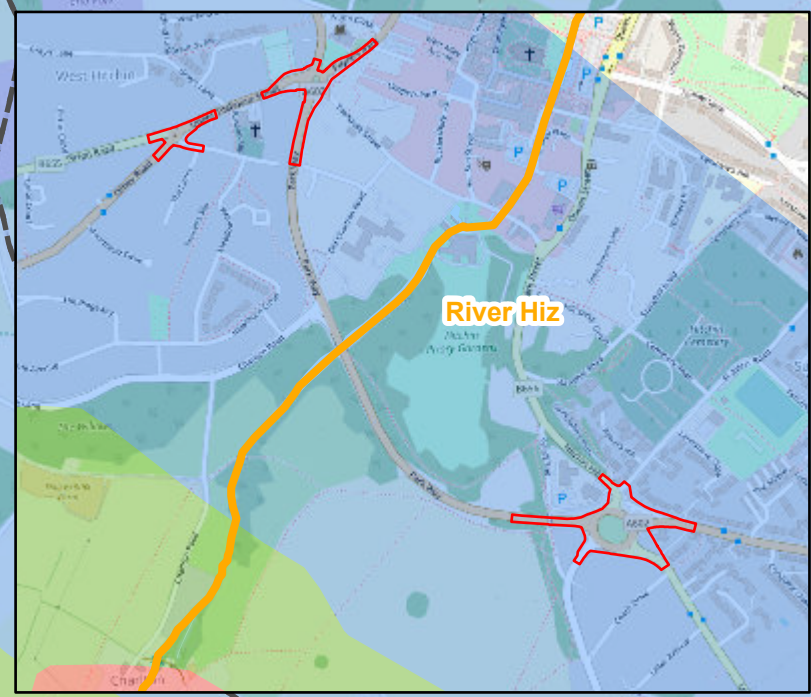
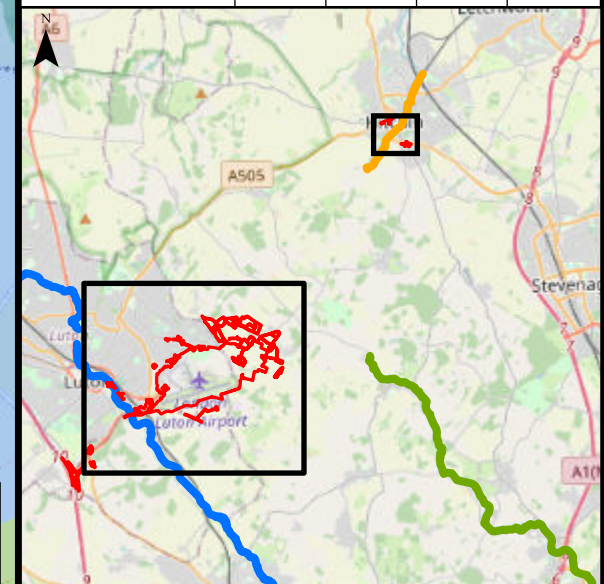
Source Protection Zones

- Inner zone
- Outer zone
- Total catchment

Waterway

- River Hiz
- River Mimram
- River Lee

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Drawing Title
Figure 20.2 Groundwater Features

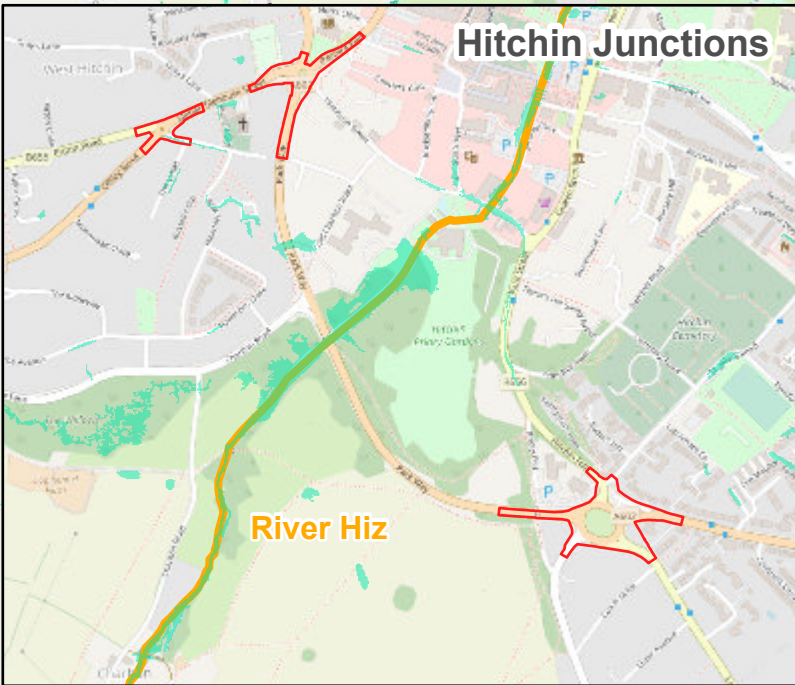
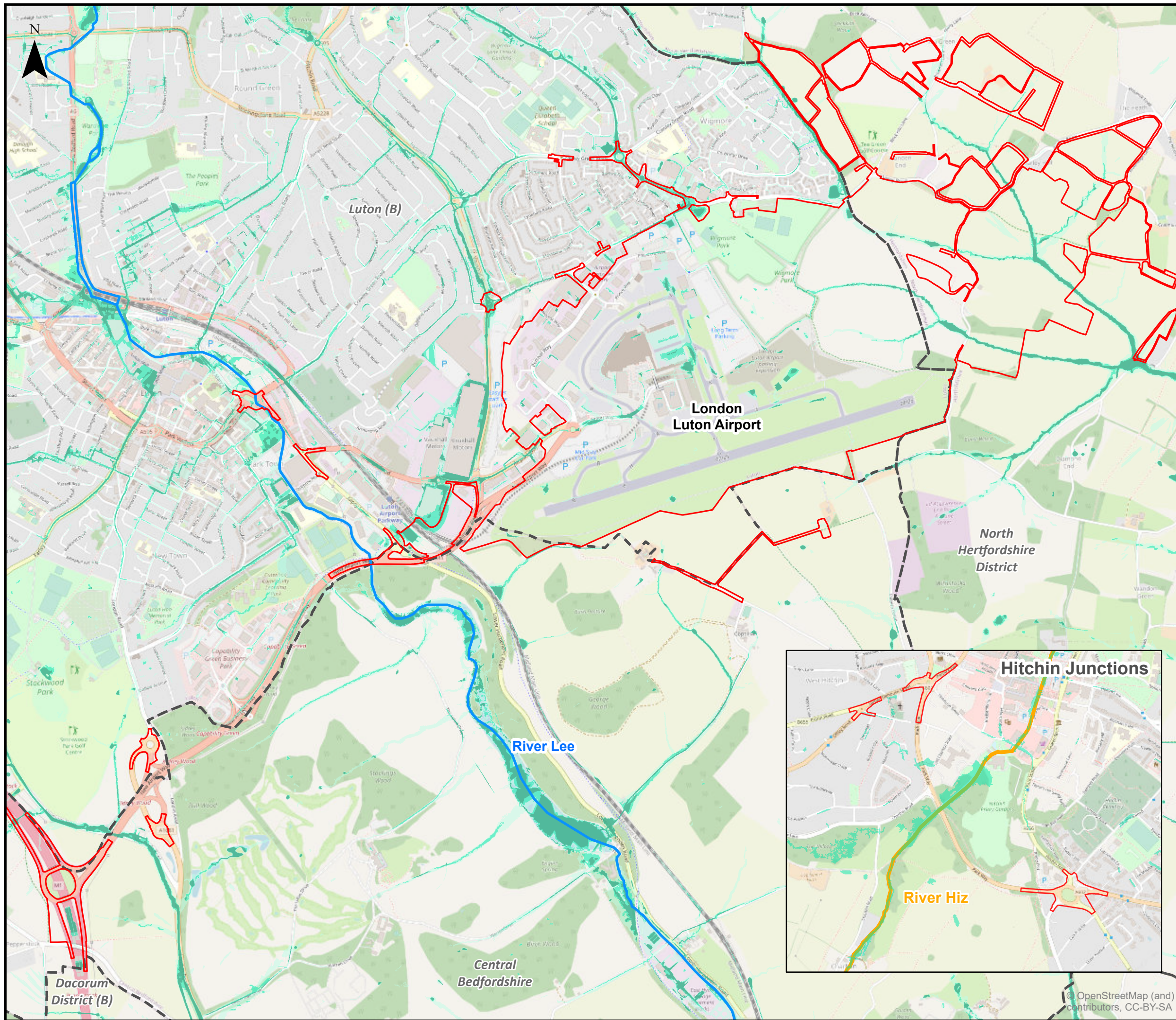
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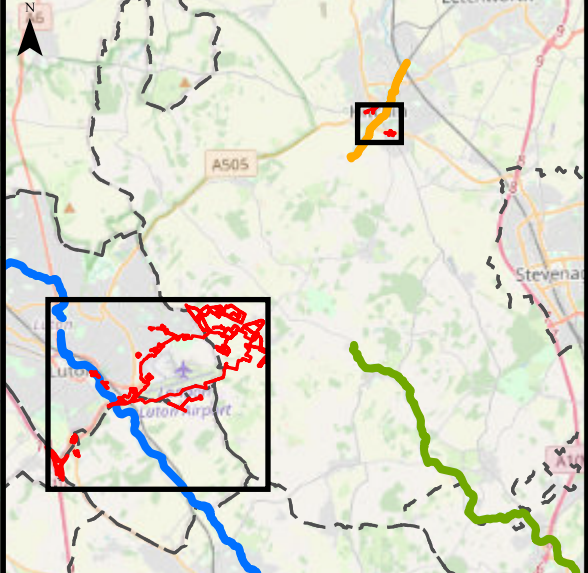
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Legend

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

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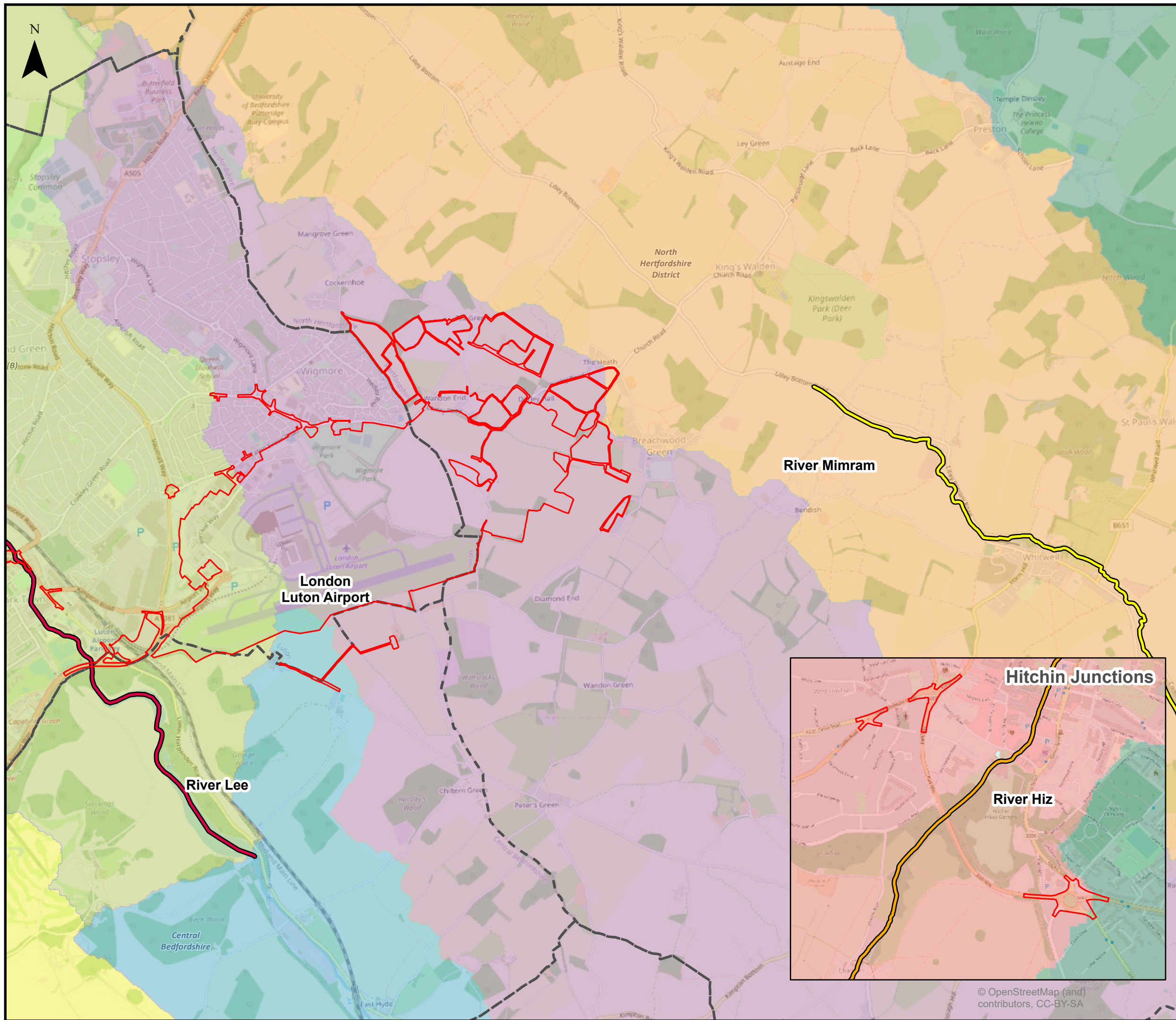
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Drawing Title
Figure 20.3 Surface Water (Pluvial) Flood Risk

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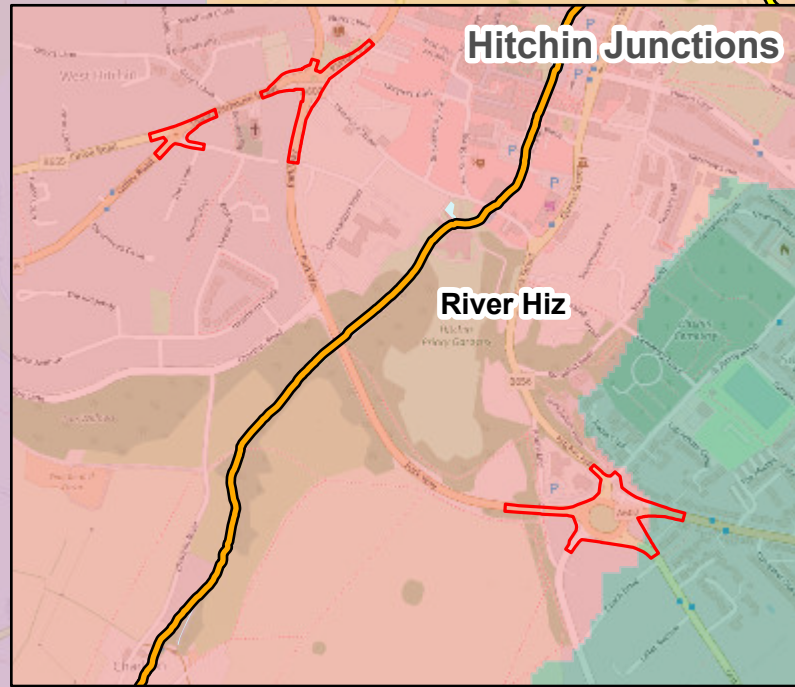
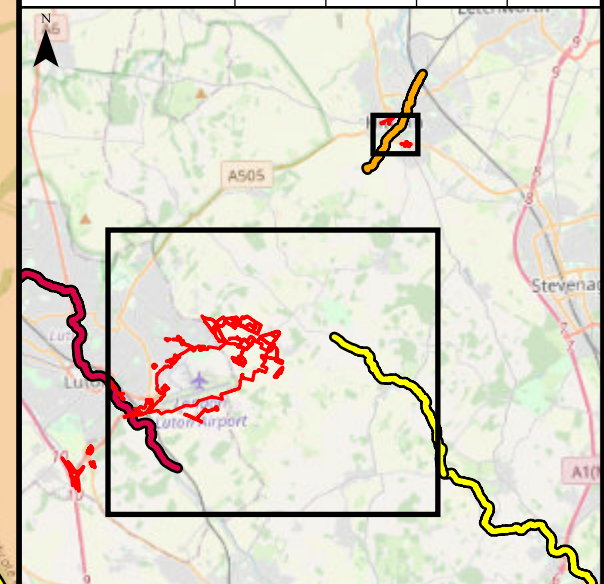
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Legend

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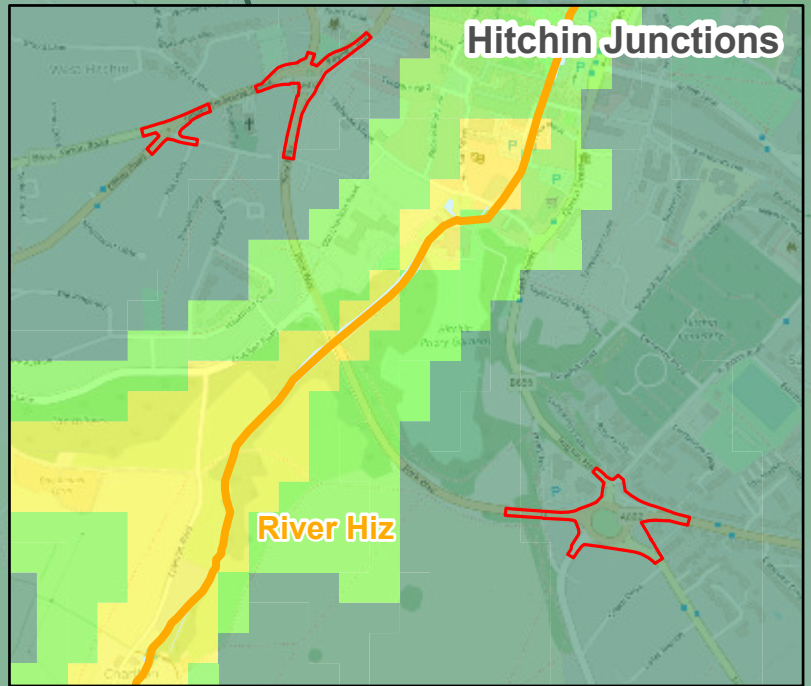
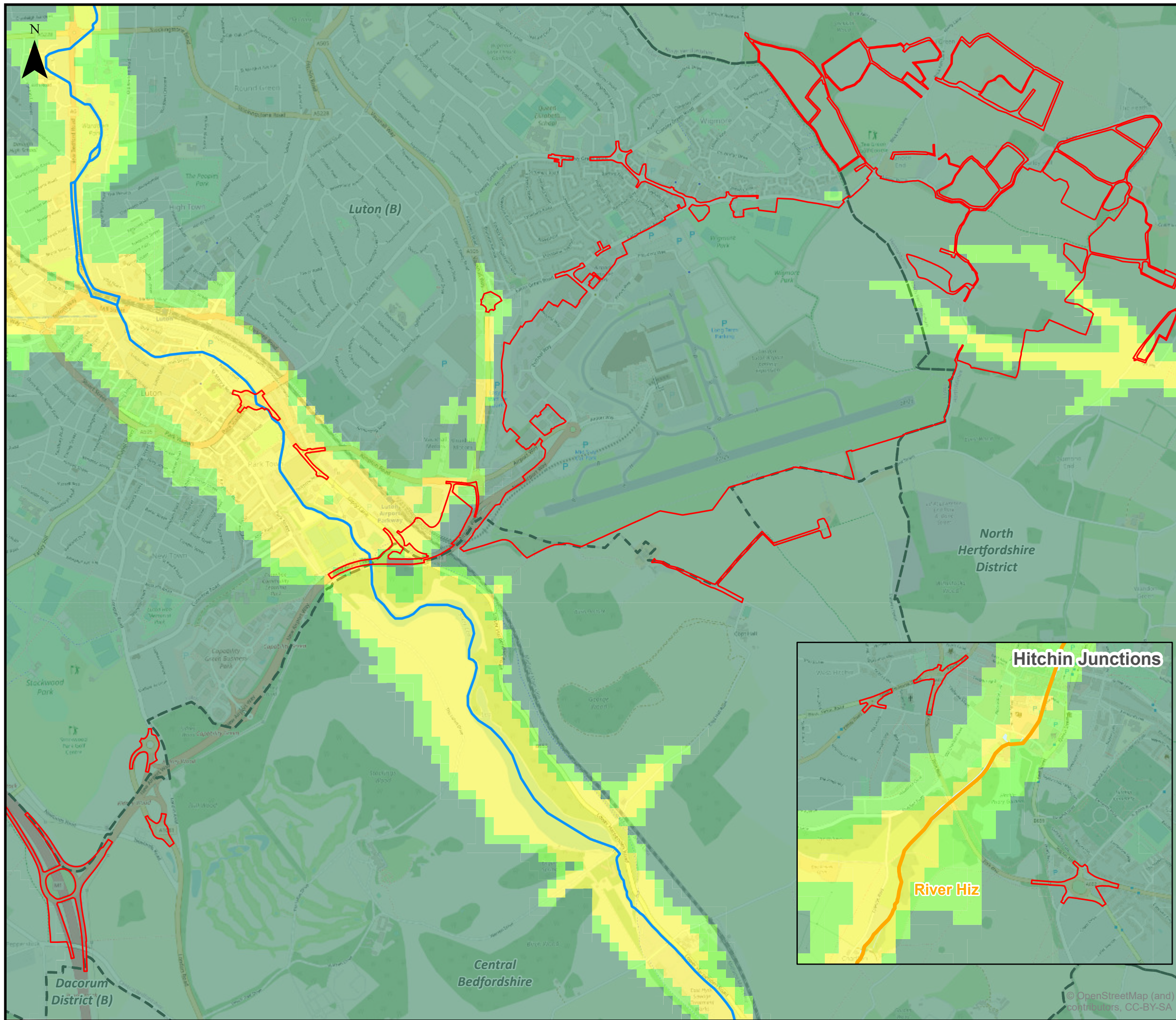
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Drawing Title
Figure 20.4 Water Framework Directive (WFD) Water Bodies

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Legend

- Order Limits
- Local Authority Boundaries

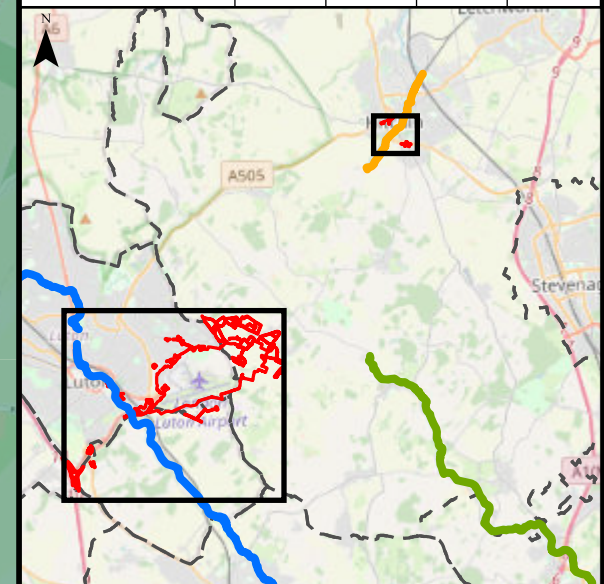
Waterway

- 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

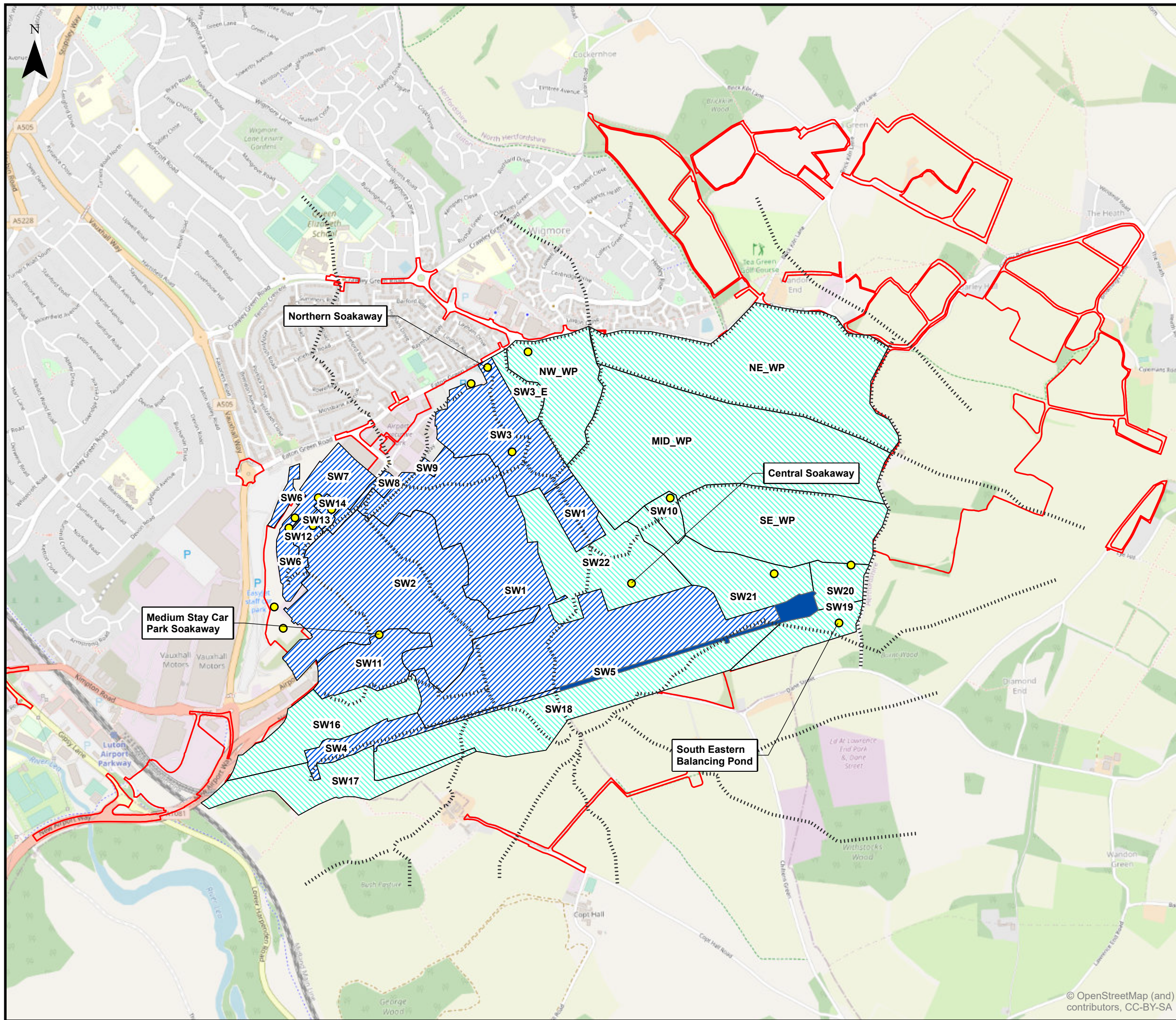
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Legend

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

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

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Drawing Title
Figure 20.6 Existing Drainage Catchments

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