

February 2023

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents
5.03 Chapter 7 Air Quality Figures 7.27 - 7.43

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

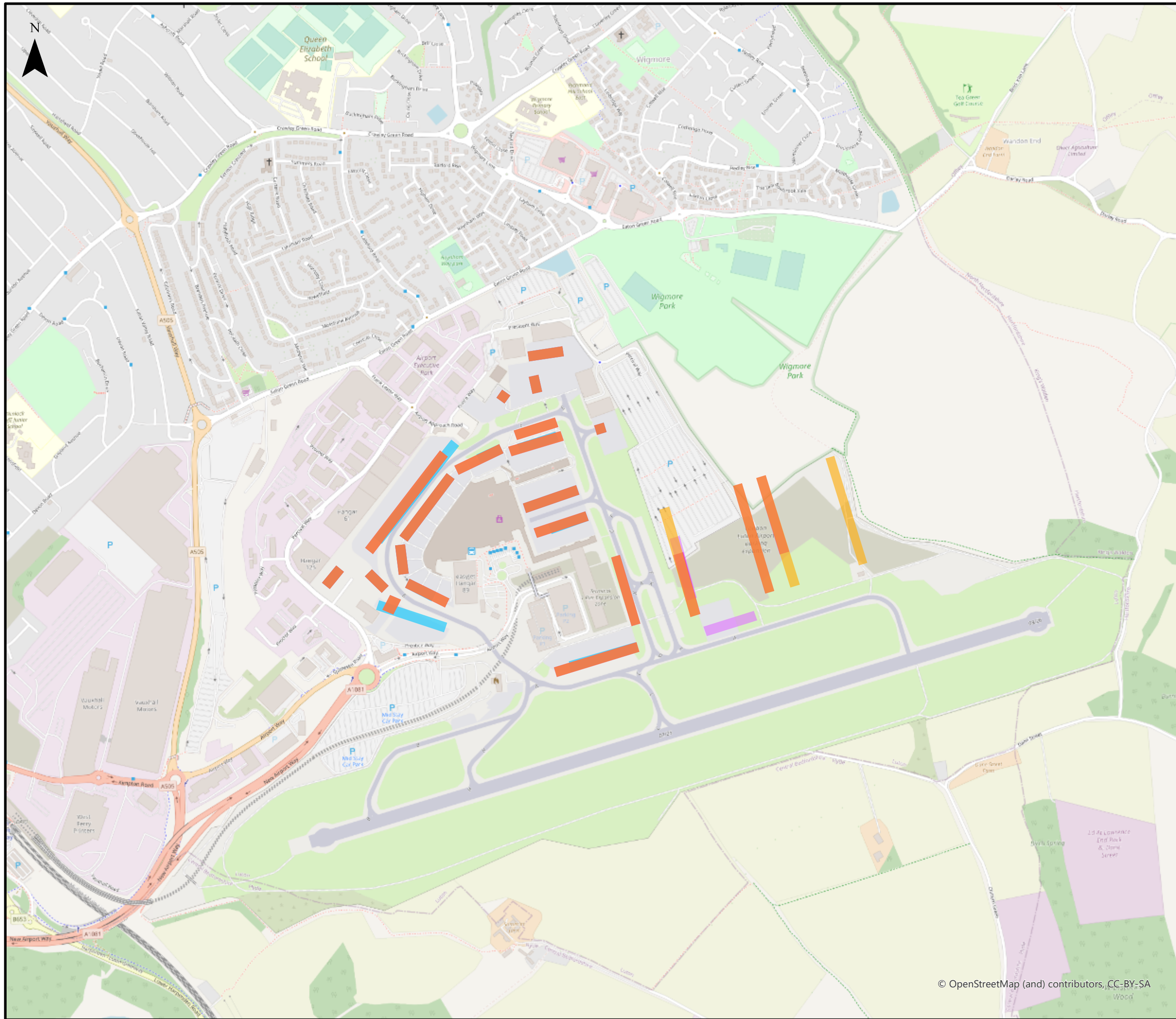
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

London Luton Airport Expansion Development Consent Order 202x

5.03 ENVIRONMENTAL STATEMENT CHAPTER 7 AIR QUALITY FIGURES 7.27 – 7.43

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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Legend

Auxiliary Power Units (APUs)

- Base and Do-Minimum (DM) scenario
- Do-Something (DS) 2027
- Do-Something (DS) 2039
- Do-Something (DS) 2043

First Issue	AB	SB	CS	01/02/23	P01
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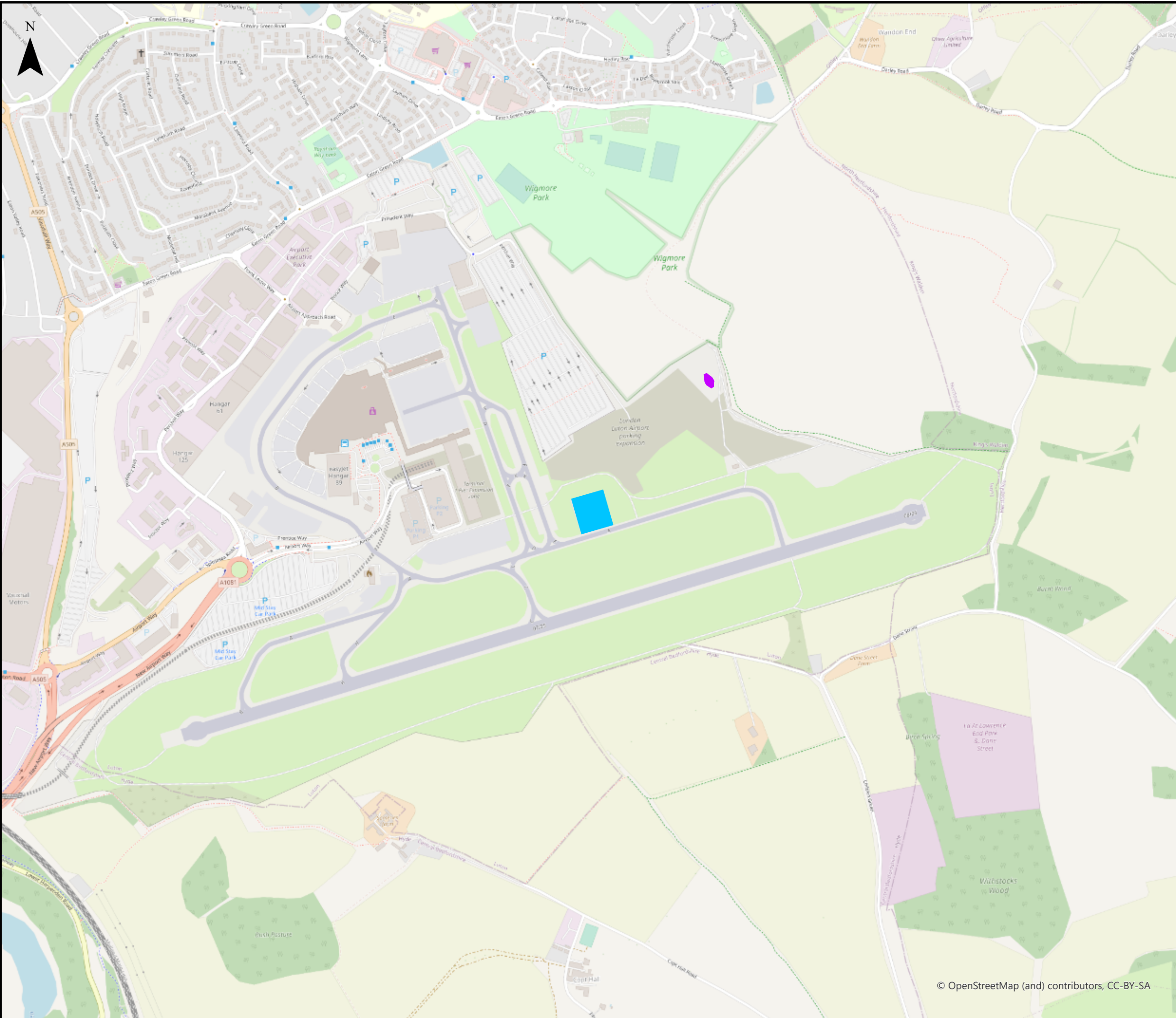
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Drawing Title
Figure 7.27 Location of modelled Auxiliary Power Units (APUs)

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Legend

- Engine Testing
- Fire Training Ground

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Drawing Title
Figure 7.28 Location of modelled aircraft engine testing and fire training ground in baseline and future Do-Minimum (DM) scenarios

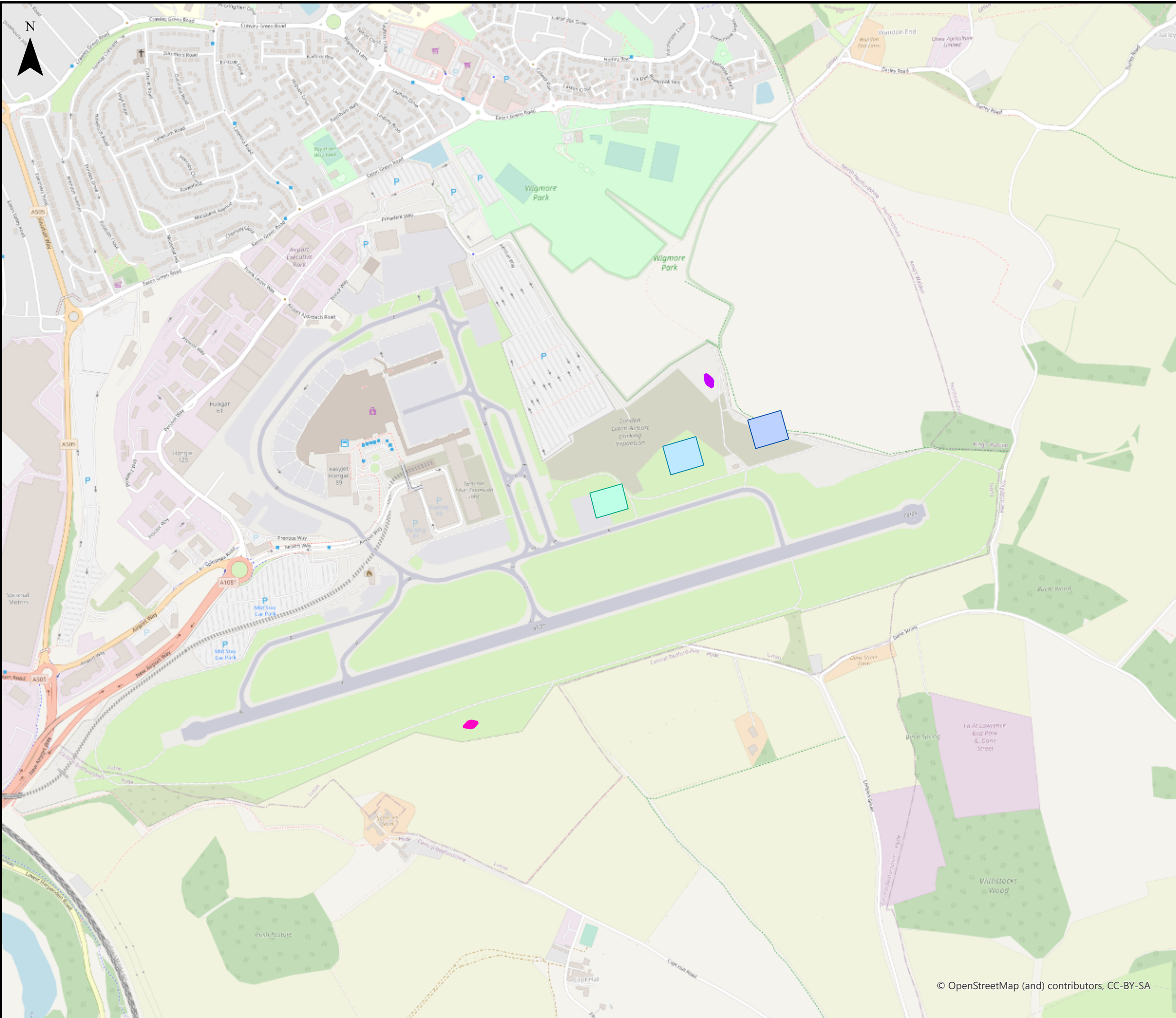
Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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Legend

Fire Training Ground

- Do-Something (DS) 2027 and 2039
- Do-Something (DS) 2043

Engine Testing

- Do-Something (DS) 2043
- Do-Something (DS) 2039
- Do-Something (DS) 2027

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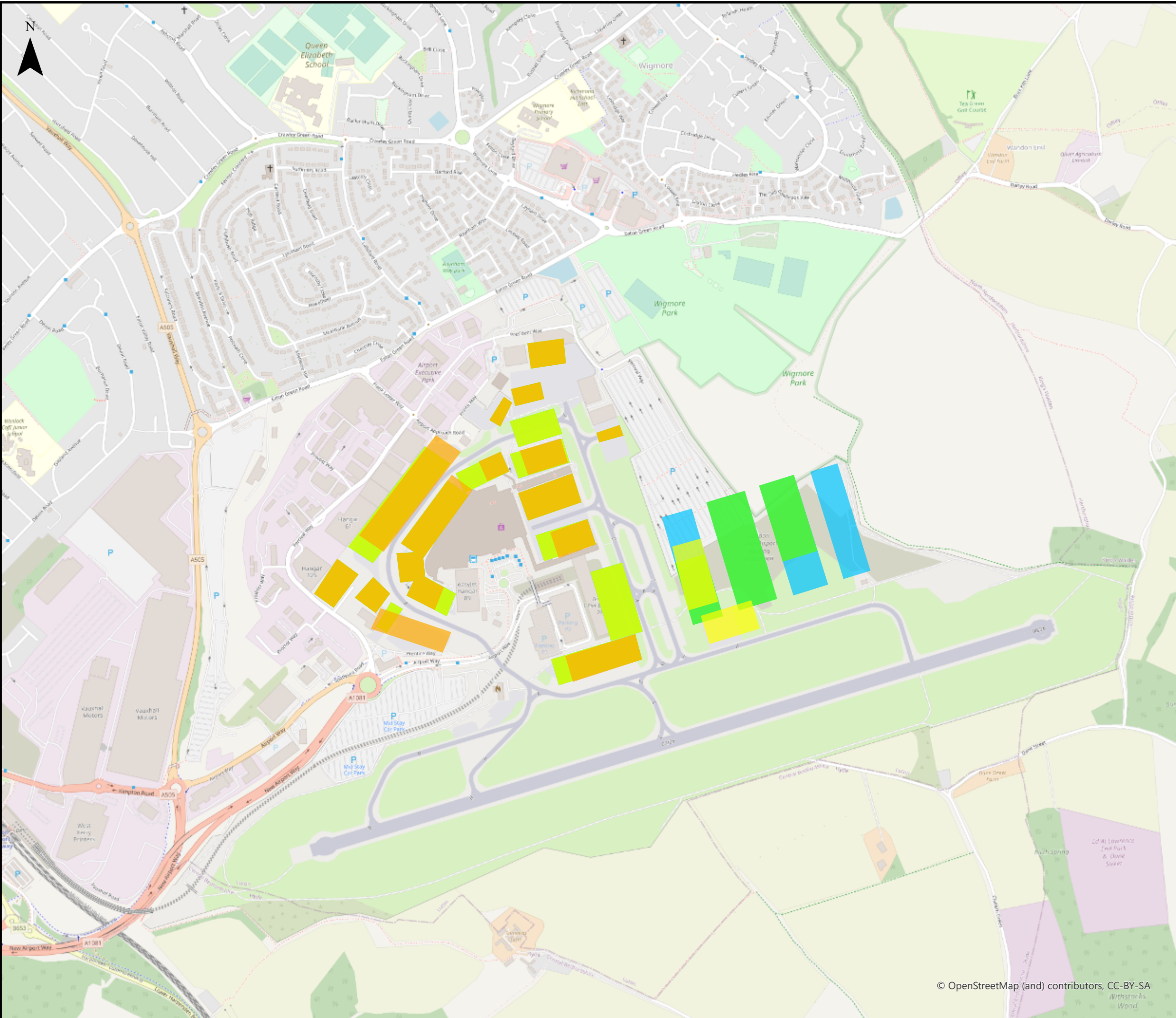
Drawing Title **Figure 7.29 Location of modelled aircraft engine testing and fire training ground in 2027, 2039 and 2043 Do-Something (DS) scenarios**

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
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Legend

Ground Support Equipment (GSE)

- Baseline and Do-Minimum (DM)
- Do-Something (DS) 2027
- Do-Something (DS) 2039
- Do-Something (DS) 2043

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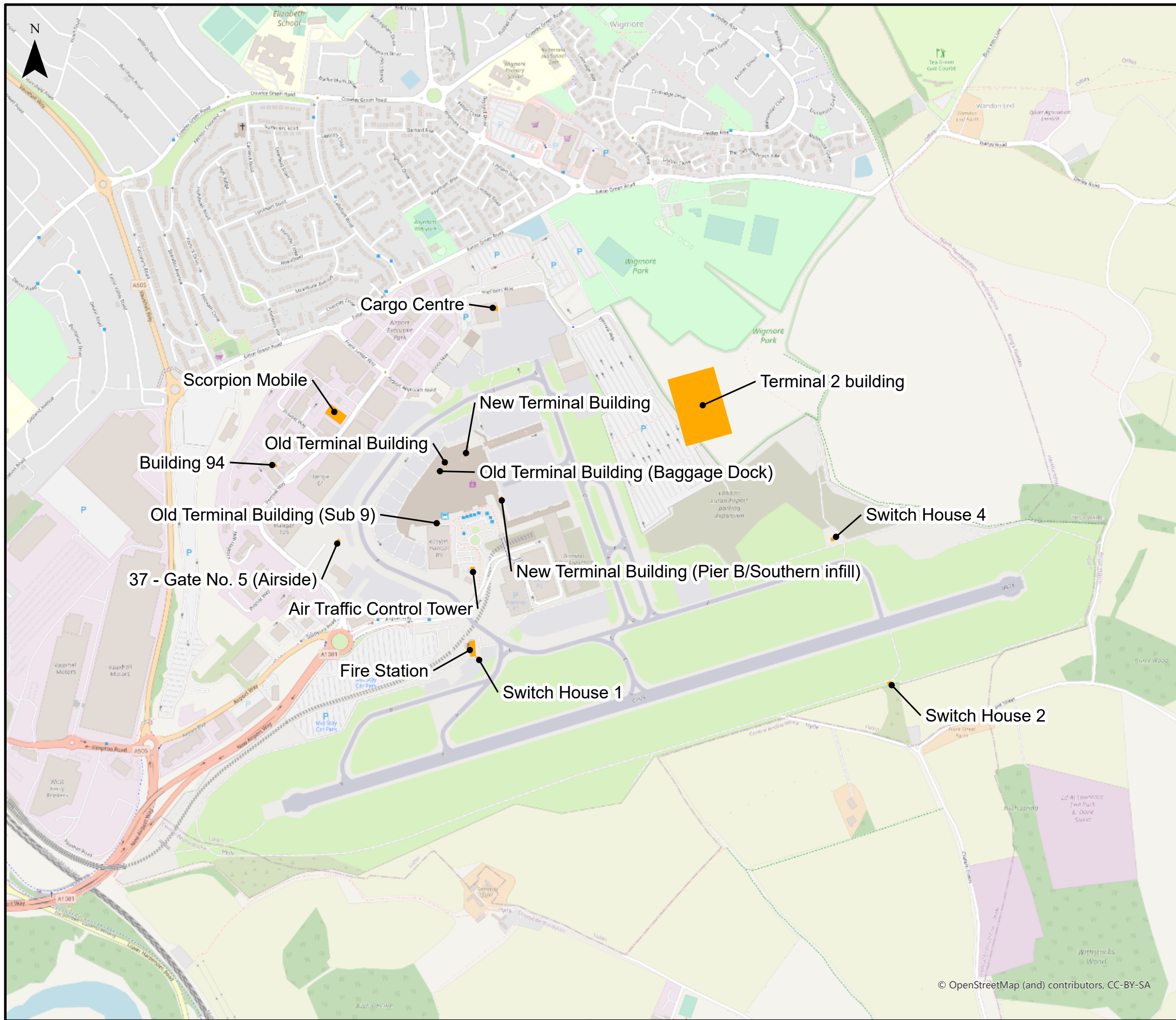
Drawing Title

Figure 7.30 Location of modelled
 Ground Support Equipment (GSE)

Purpose of issue				Suitability	
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Legend

Energy plant (Do-Something (DS) 2027, 2039 and 2043)

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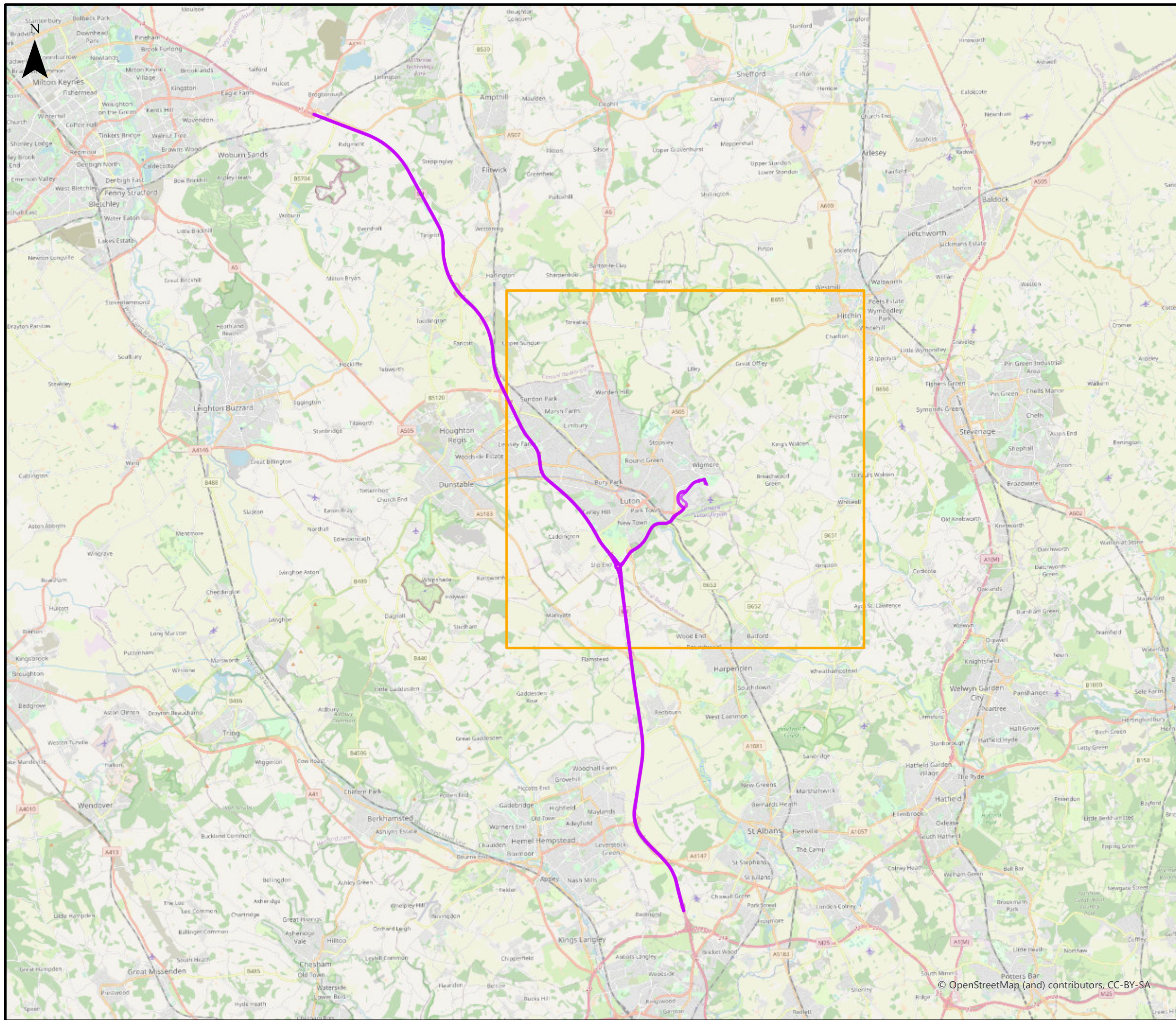
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Drawing Title
Figure 7.31 Location of modelled heating and energy plant

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Legend
 Grid Area
 Assumed construction traffic route

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Drawing Title
 Figure 7.32 Assumed construction traffic route

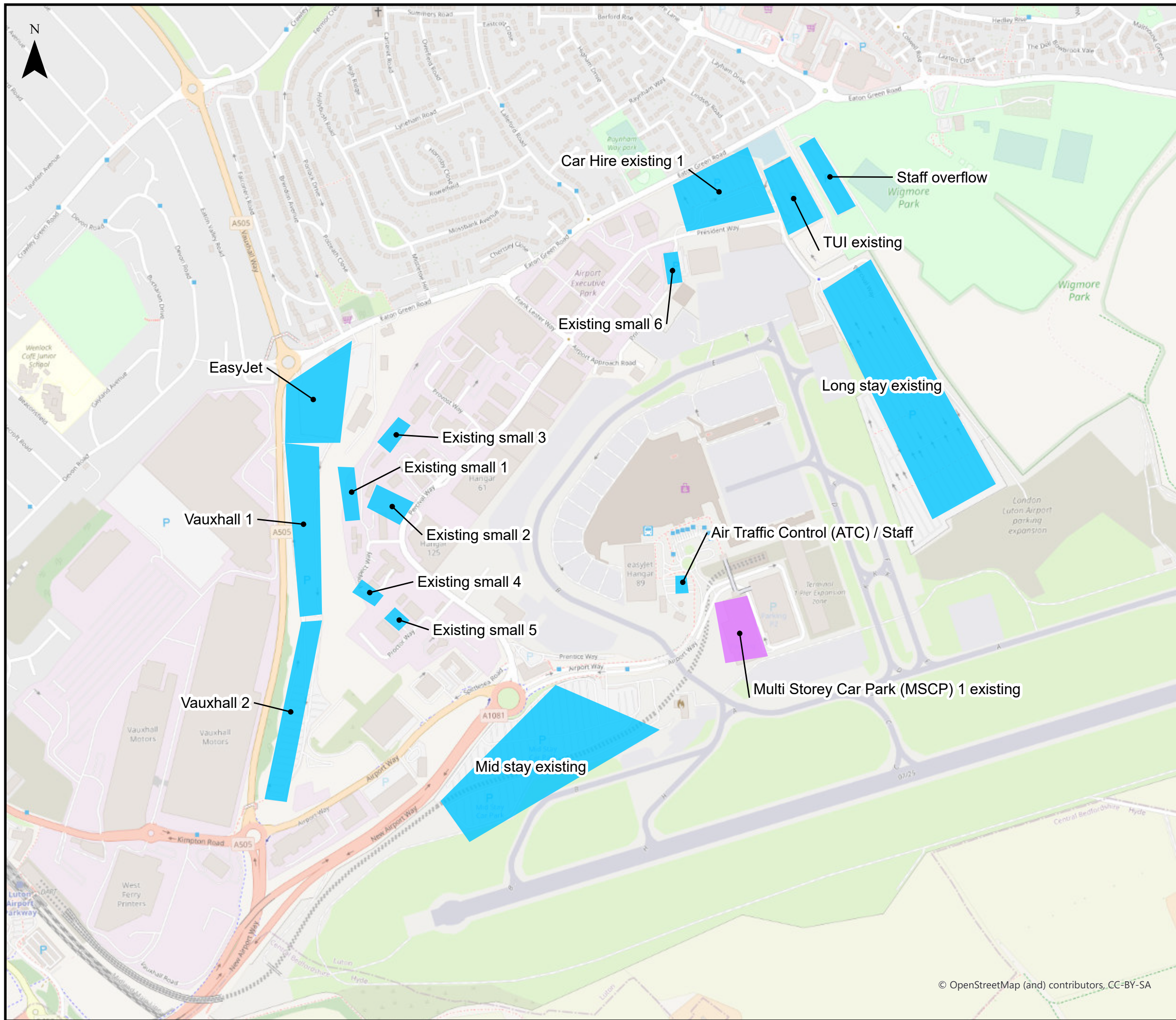
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Legend

- Multi Storey Car Park (MSCP) (Baseline and future Do-Minimum (DM) scenarios)
- Surface Car Park (Baseline and future Do-Minimum (DM) scenarios)

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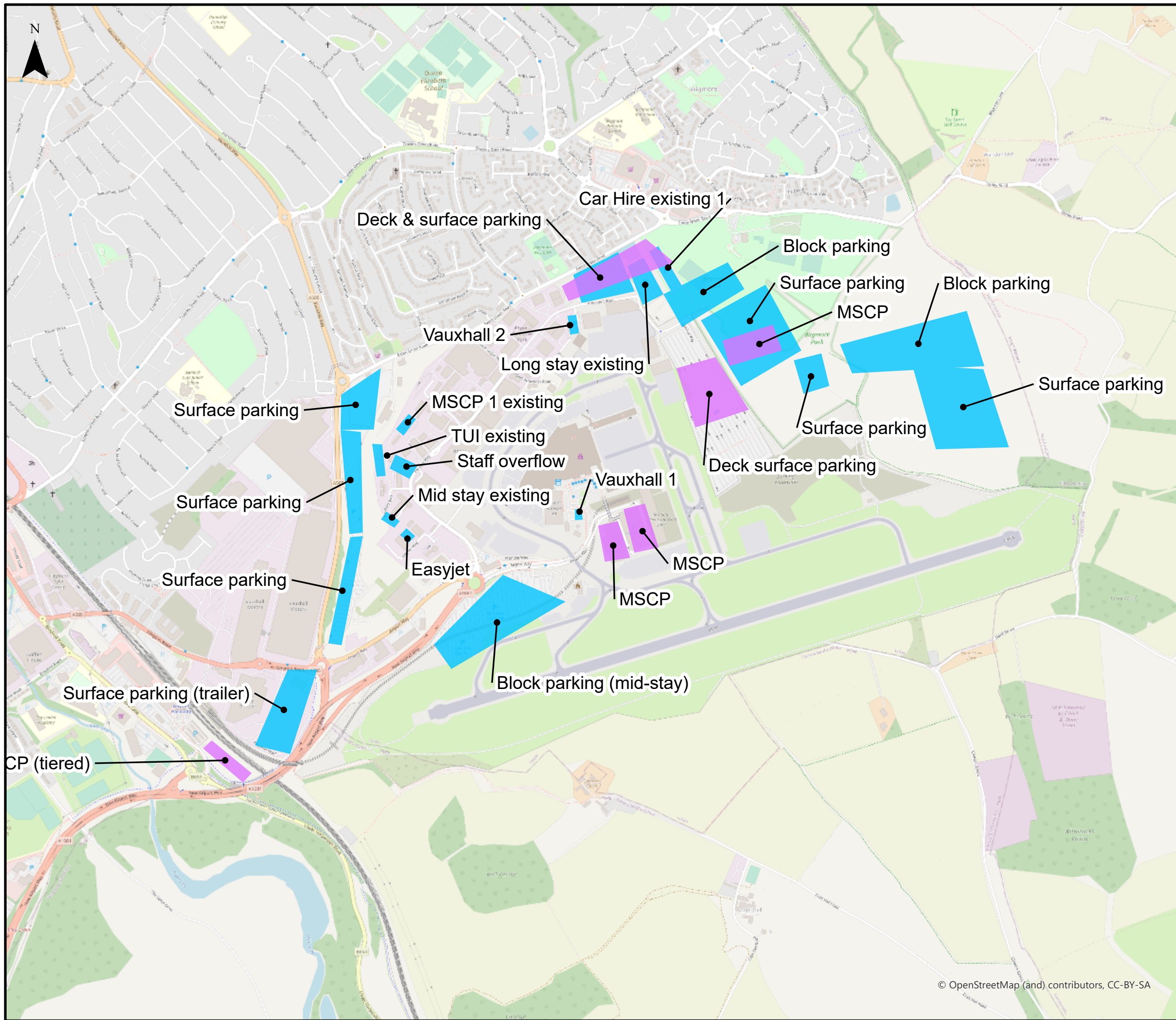
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Drawing Title
Figure 7.33 Location of modelled car parks in baseline and future Do-Minimum (DM) scenarios

Purpose of issue SUITABLE FOR COORDINATION				Suitability S2	
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Legend

- Surface Car Park (Do-Something (DS) 2027)
- Multi Storey Car Park (MSCP) (Do-Something (DS) 2027)

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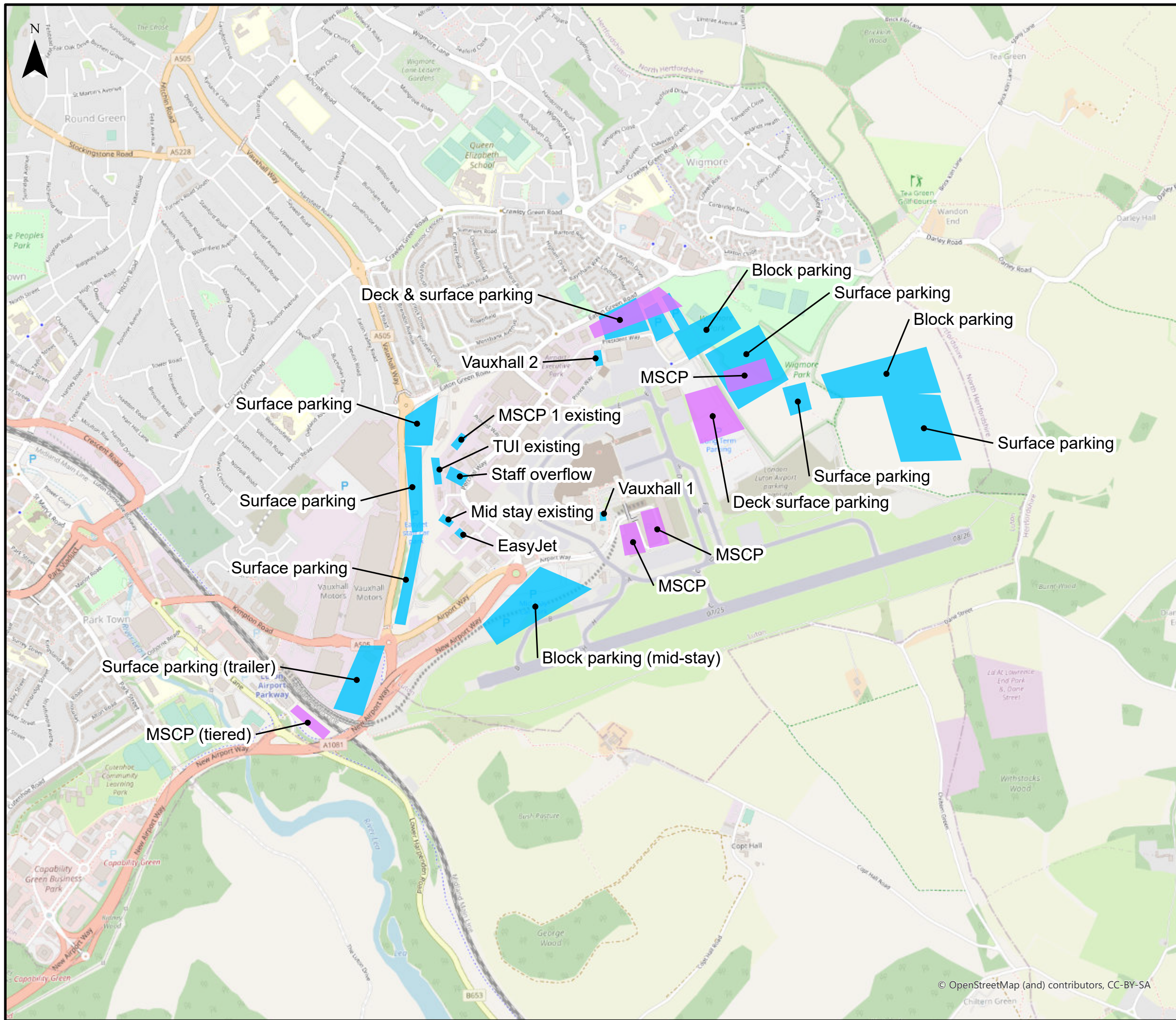
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Drawing Title
 Figure 7.34 Location of modelled car parks in 2027
 Do-Something (DS) scenario

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Legend

- Surface Car Park (Do-Something (DS) 2039)
- Multi Storey Car Park (MSCP) (Do-Something (DS) 2039)

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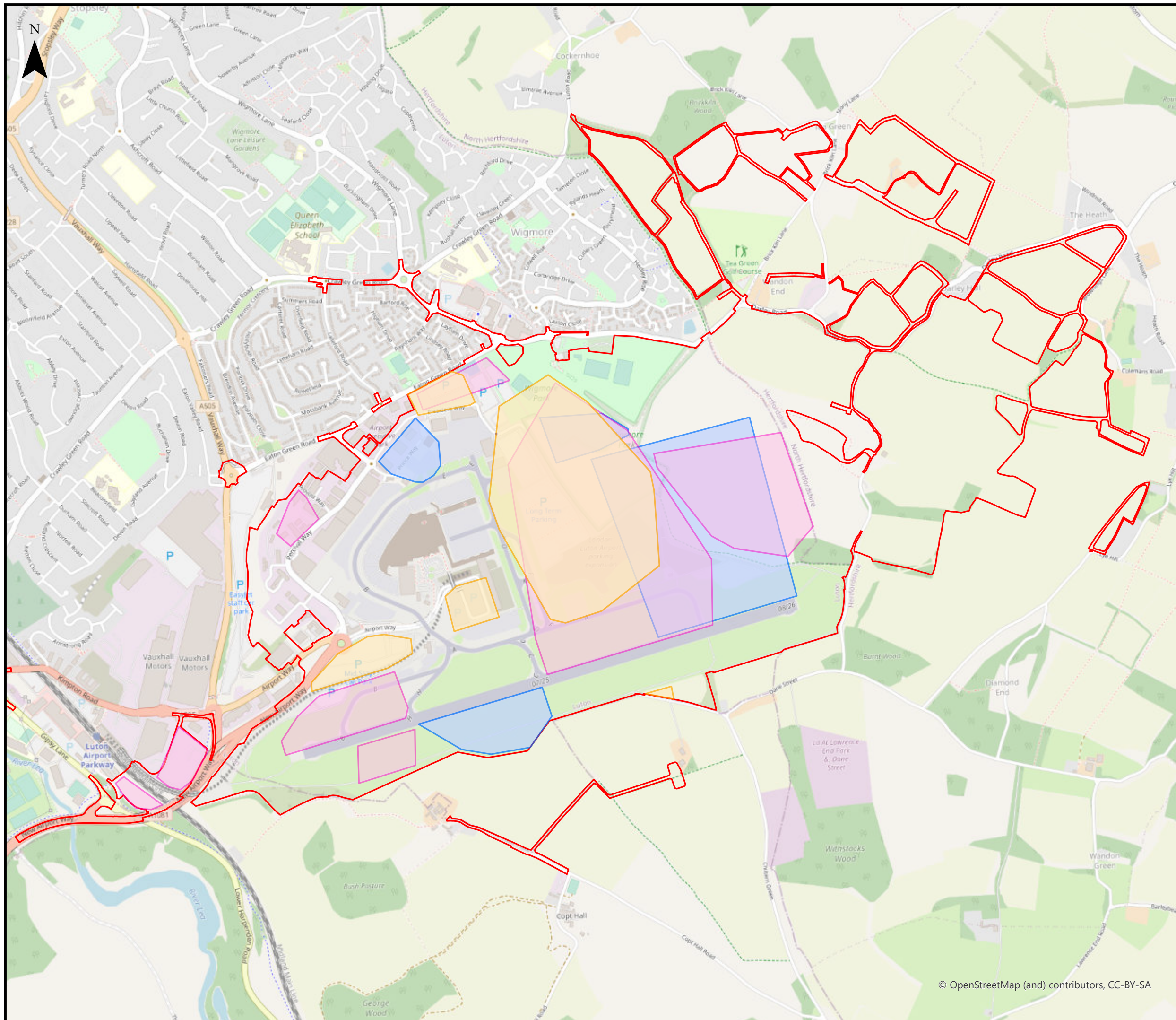
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Drawing Title
 Figure 7.35 Location of modelled car parks in 2039 Do-Something (DS) scenario

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Legend

Order Limits

Non-Road Mobile Machinery (NRMM)

NRMM 2027

NRMM 2039

NRMM 2043

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Drawing Title
Figure 7.37 Location of Non-Road Mobile Machinery (NRMM) and concrete batching plant emissions

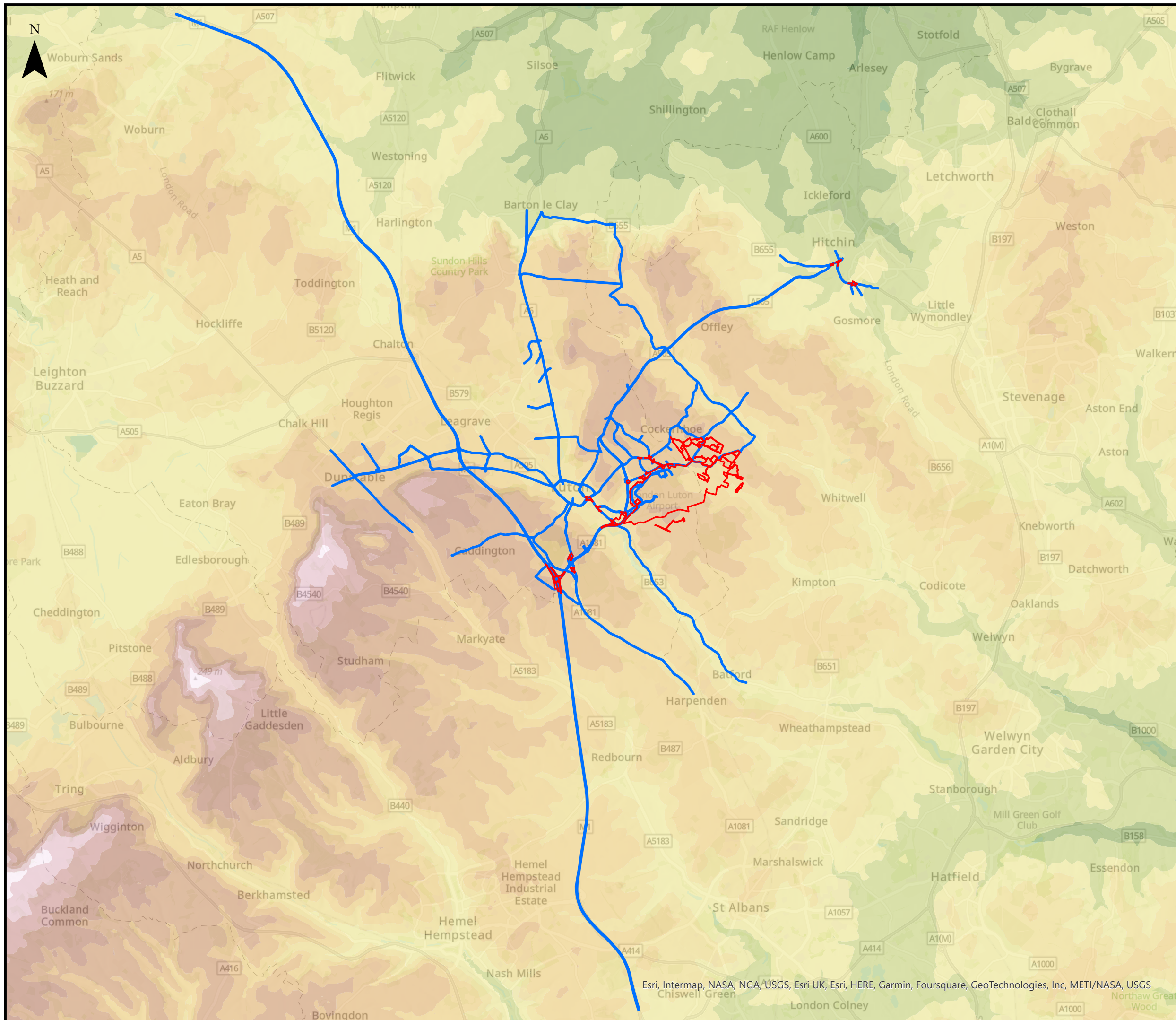
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Legend

- Order Limits
 - Affected Road Network (ARN)
- Terrain Contours (20m)**
- 30 - 40
 - 40 - 60
 - 60 - 80
 - 80 - 100
 - 100 - 120
 - 120 - 140
 - 140 - 160
 - 160 - 180
 - 180 - 200
 - 200 - 220
 - 220 - 240
 - > 240

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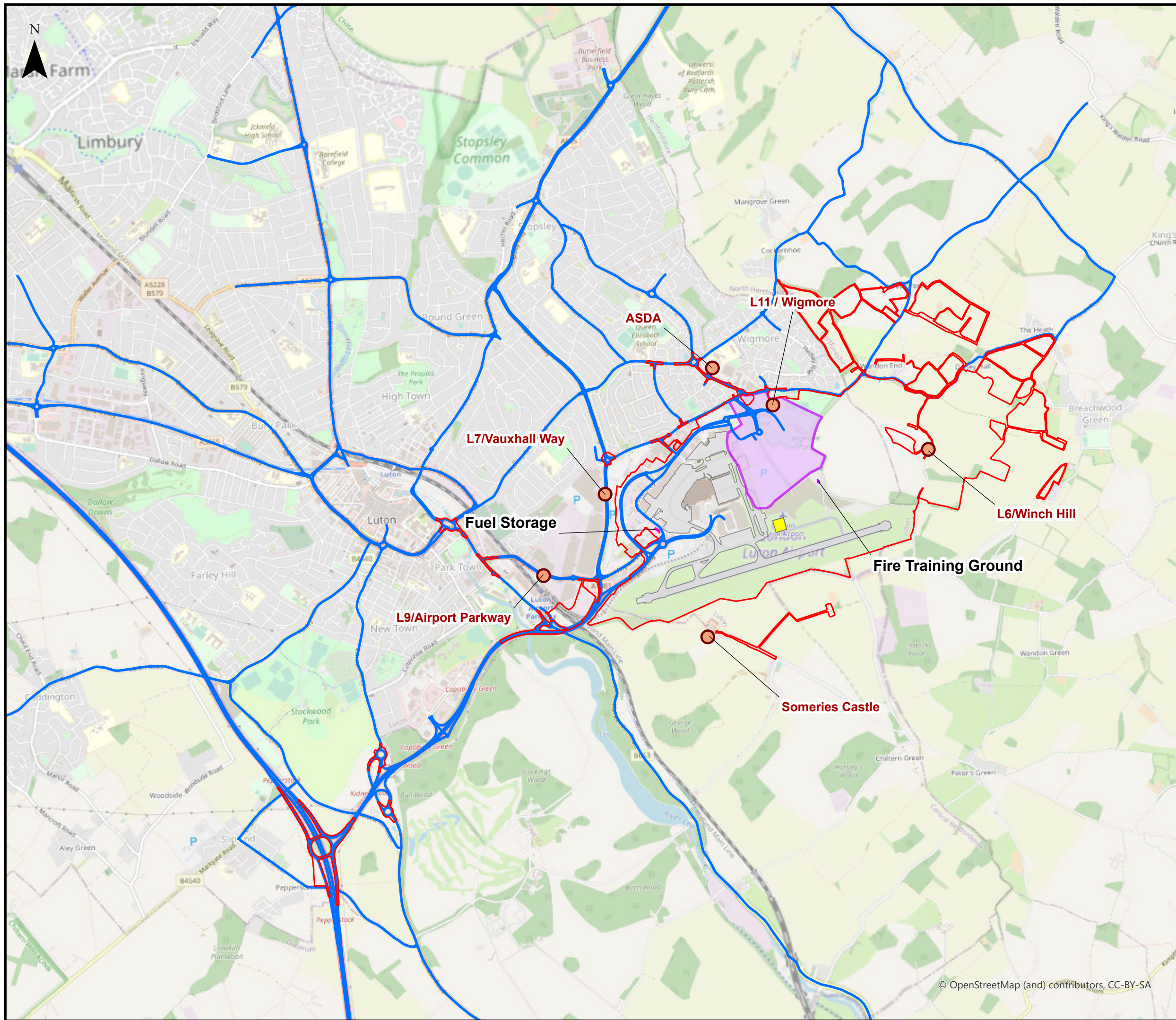
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Drawing Title
 Figure 7.38 Modelled terrain data

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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Legend

- Order Limits
- Affected Road Network (ARN)
- Luton Rising Monitoring Locations
- Existing Apron
- Engine Testing
- Fire Training Ground
- Fuel Storage
- Historic Landfill Site (Luton Airport)

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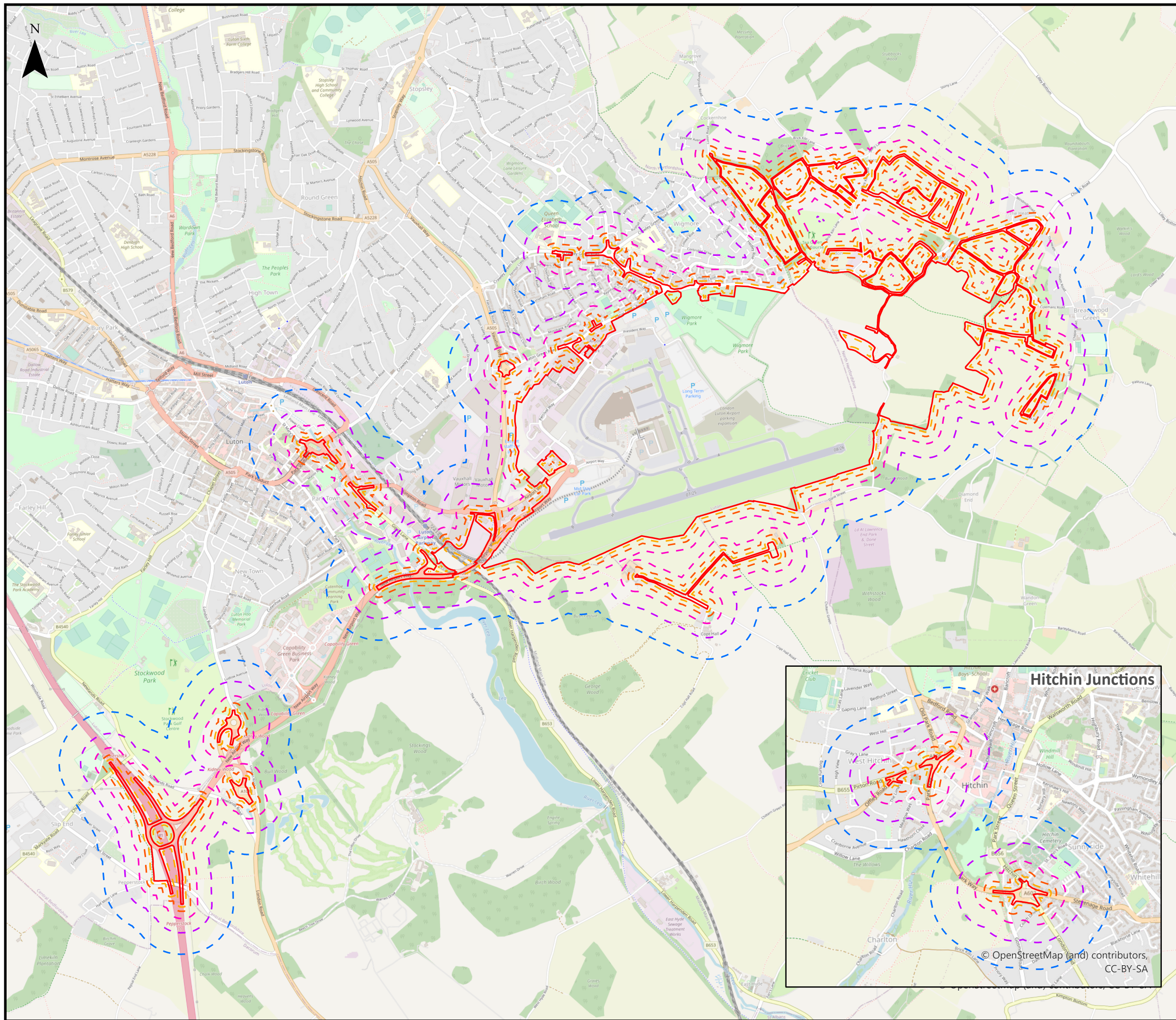
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Drawing Title
**Figure 7.39 Odour survey locations
and odour source locations**

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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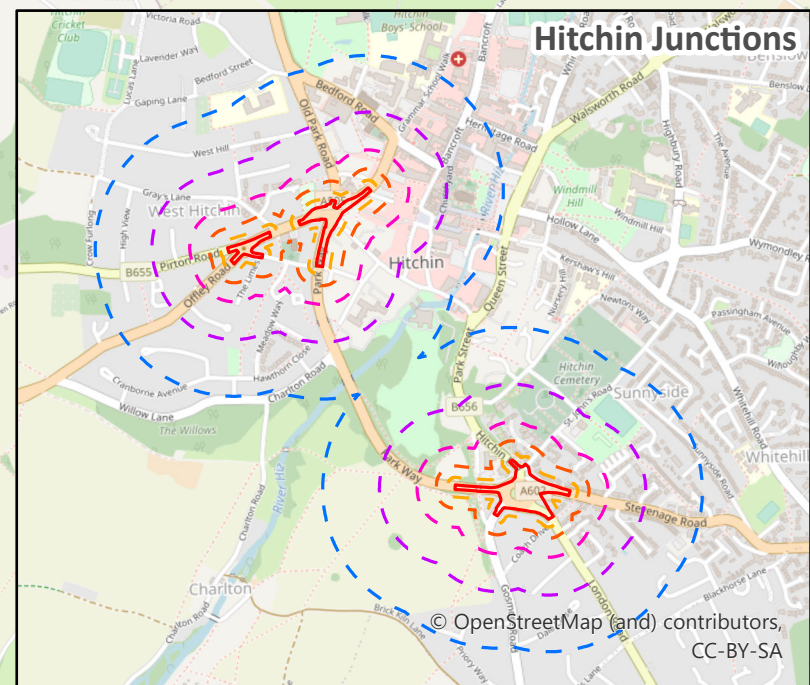
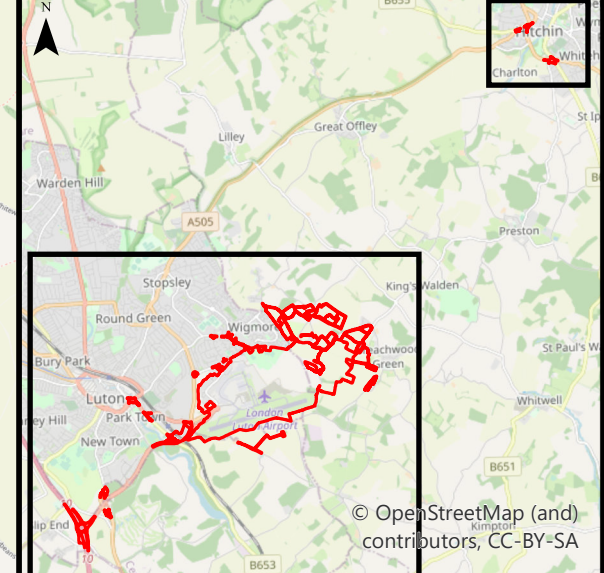
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Legend

- Order Limits
- Construction Dust Buffers**
- 20m
- 50m
- 100m
- 200m
- 350m

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Drawing Title
Figure 7.40 Construction Dust Buffers

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Legend

- Order Limits
- 2027 Nitrogen Dioxide (NO₂) Total (ug/m³)**
- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- > 60

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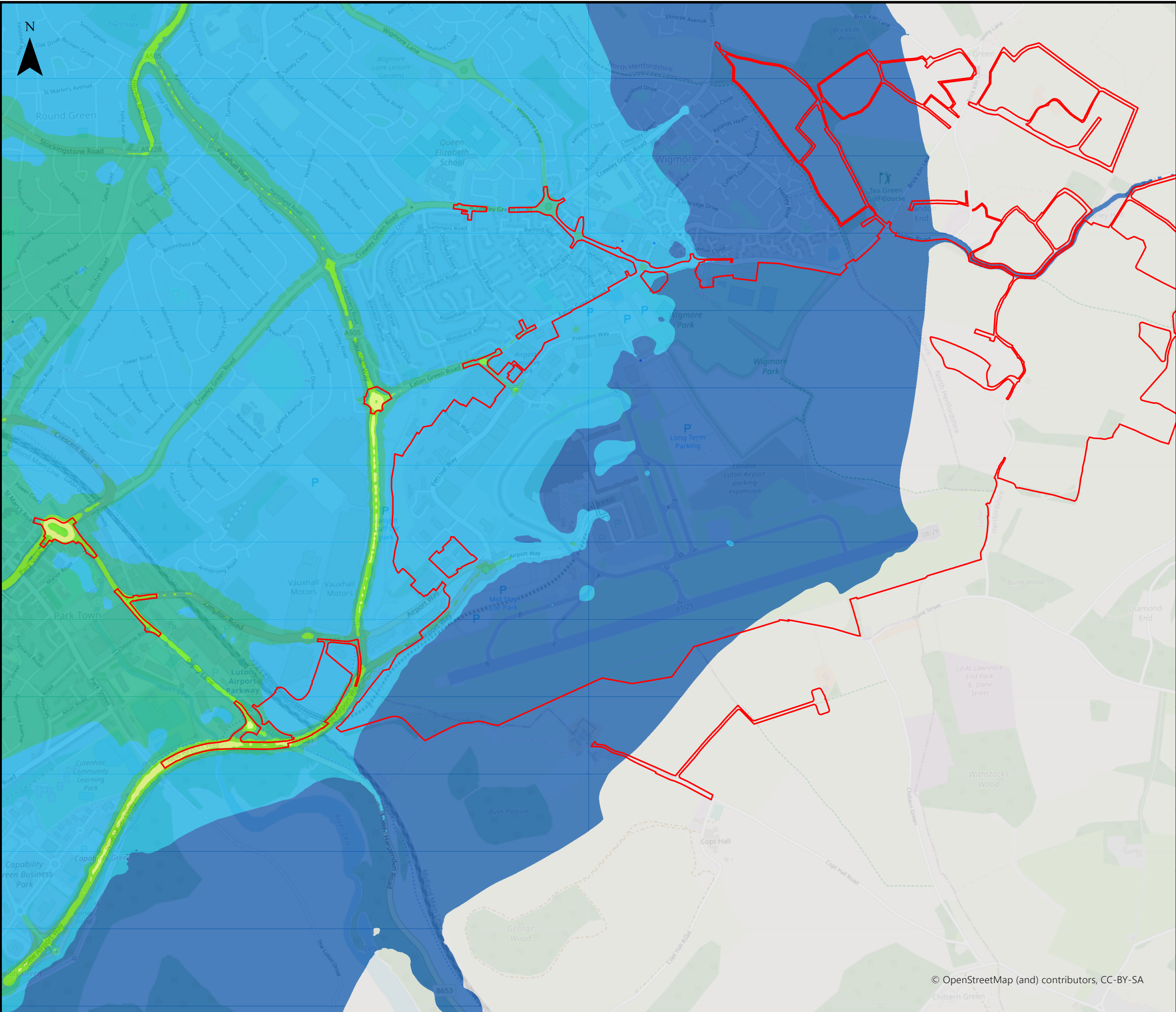
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Drawing Title
Figure 7.41 Assessment Phase 1 Core (2027): Annual mean Nitrogen Dioxide (NO₂) contour plot

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
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Legend

Order Limits

2027 PM10 Total

- < 13
- 13 - 14
- 14 - 15
- 15 - 16
- 16 - 17
- > 17

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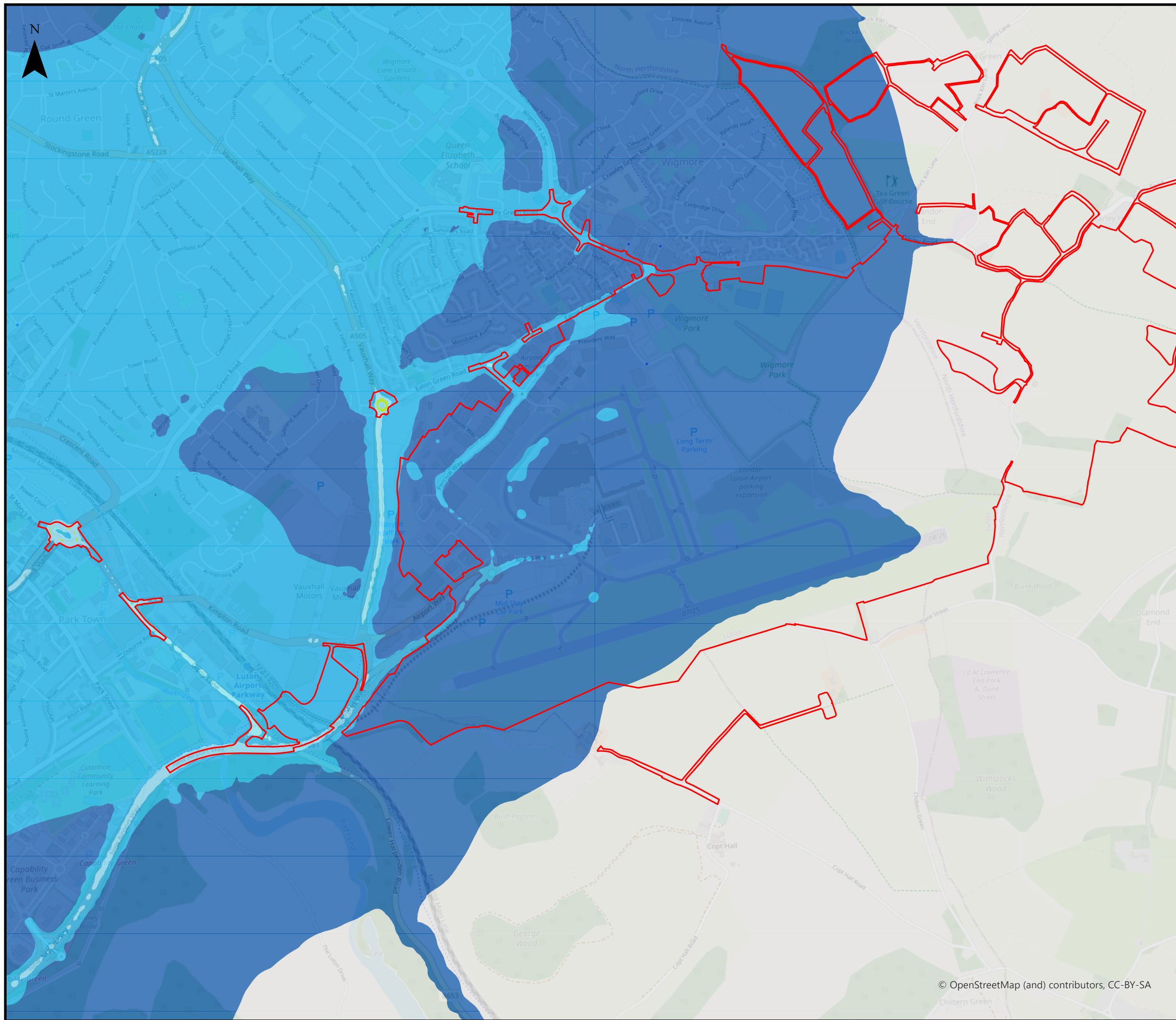
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**Figure 7.42 Assessment Phase
1 Core (2027): Annual mean
PM10 contour plot**

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	01/02/23	1:15,000	A3

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Legend

- Order Limits
- 2027 PM2.5 Total**
- < 9
- 9 - 10
- 10 - 11
- 11 - 12
- > 12

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Drawing Title
Figure 7.43 Assessment Phase 1 Core (2027): Annual mean PM2.5 contour plot

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