

June 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 - 7.49

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

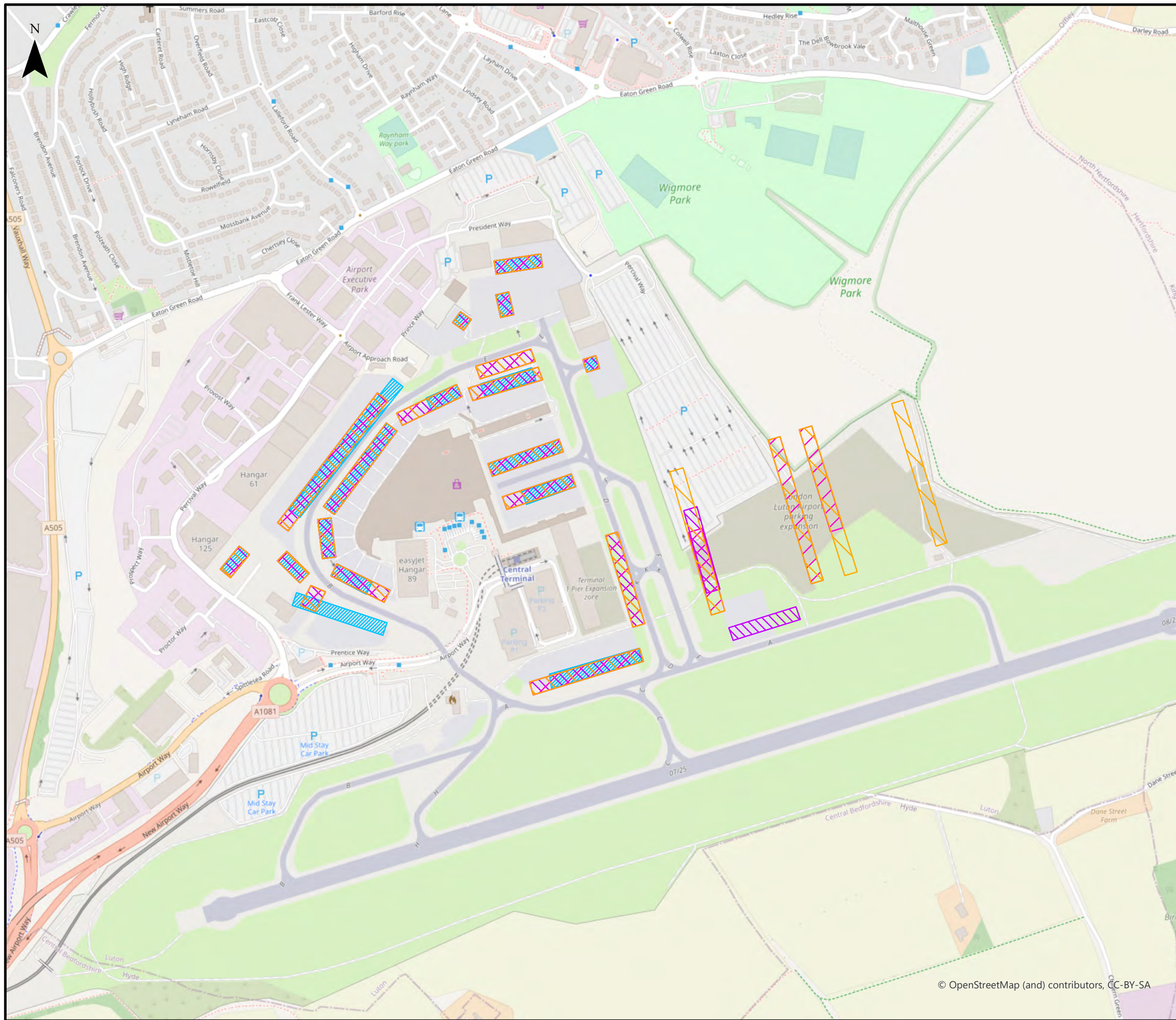
5.03 ENVIRONMENTAL STATEMENT CHAPTER 7 AIR QUALITY FIGURES 7.27 – 7.49

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	June 2023	Additional submissions (updated in response to Rule 9 letter)

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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

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	31/05/23	P02
First Issue	AB	SB	CS	01/02/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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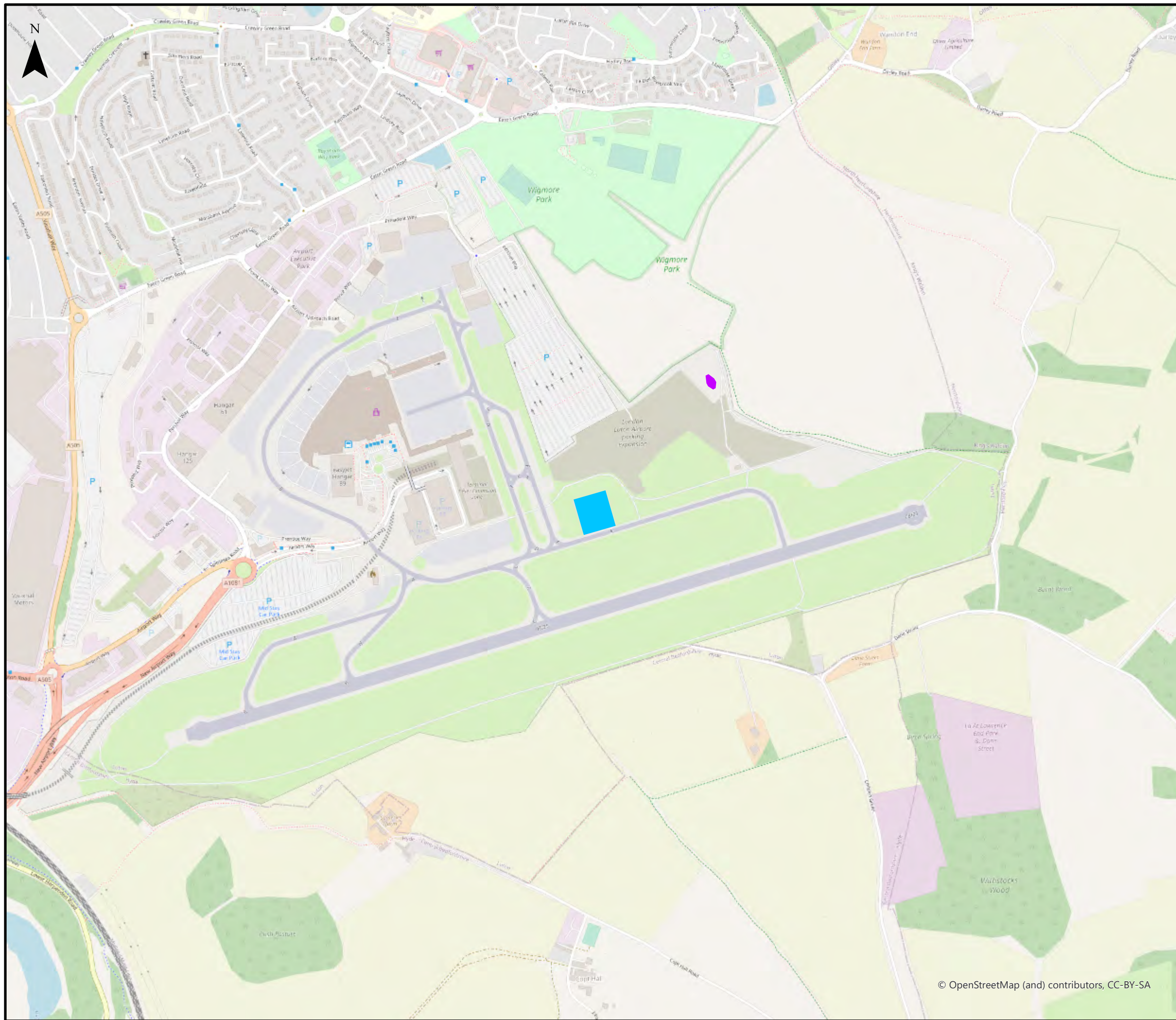
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Drawing Title
Figure 7.27 Location of modelled Auxiliary Power Units (APUs)

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	01/02/23	1:7,500	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-ARP-00-00-DR-YE-0099	Revision P02
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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	
Drawn AB	Checked SB	Approved CS	Date 01/02/23	Scale 1:10,000	Size A3

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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**

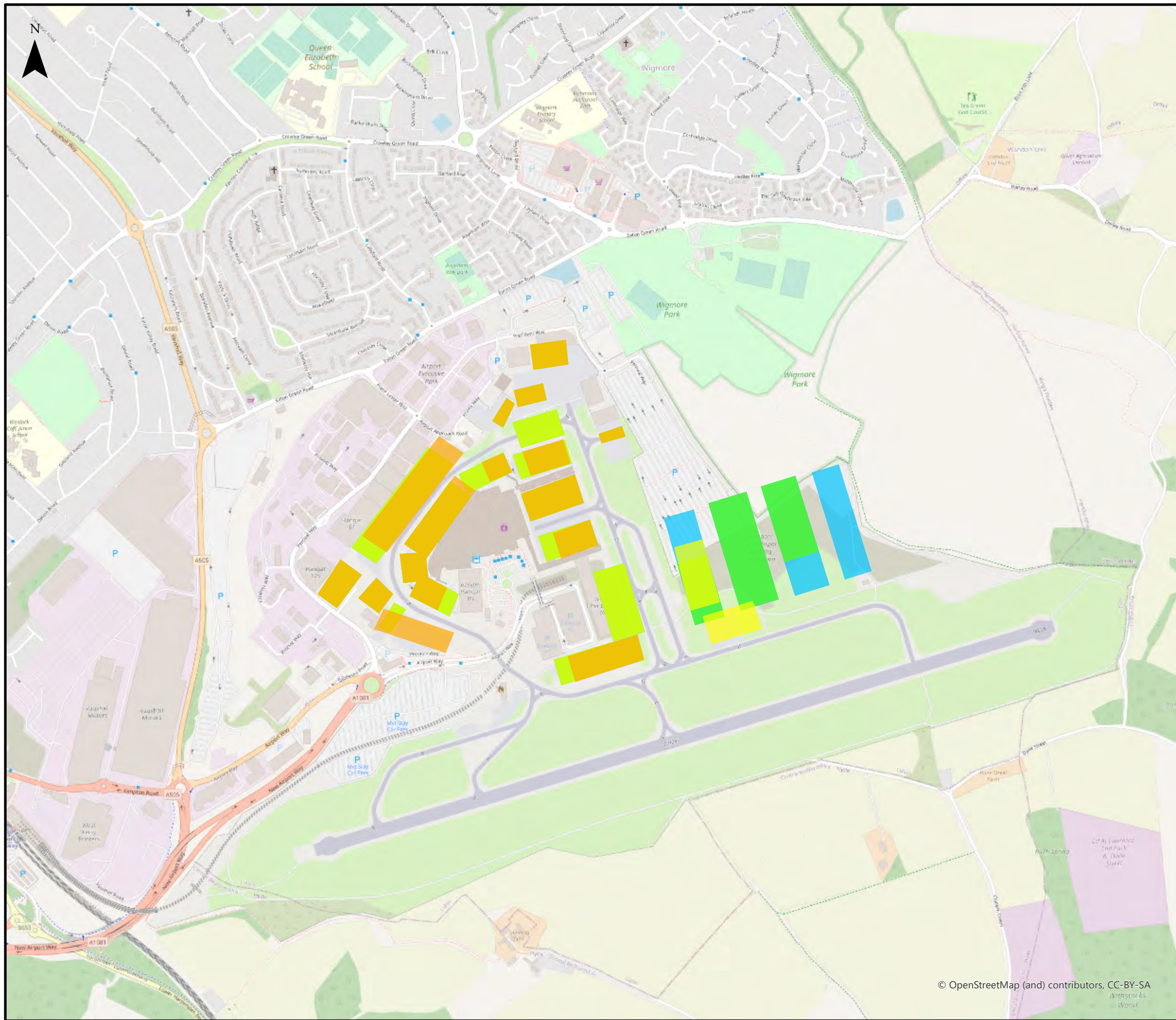
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SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
AB	SB	CS	01/02/23	1:10,000	A3	

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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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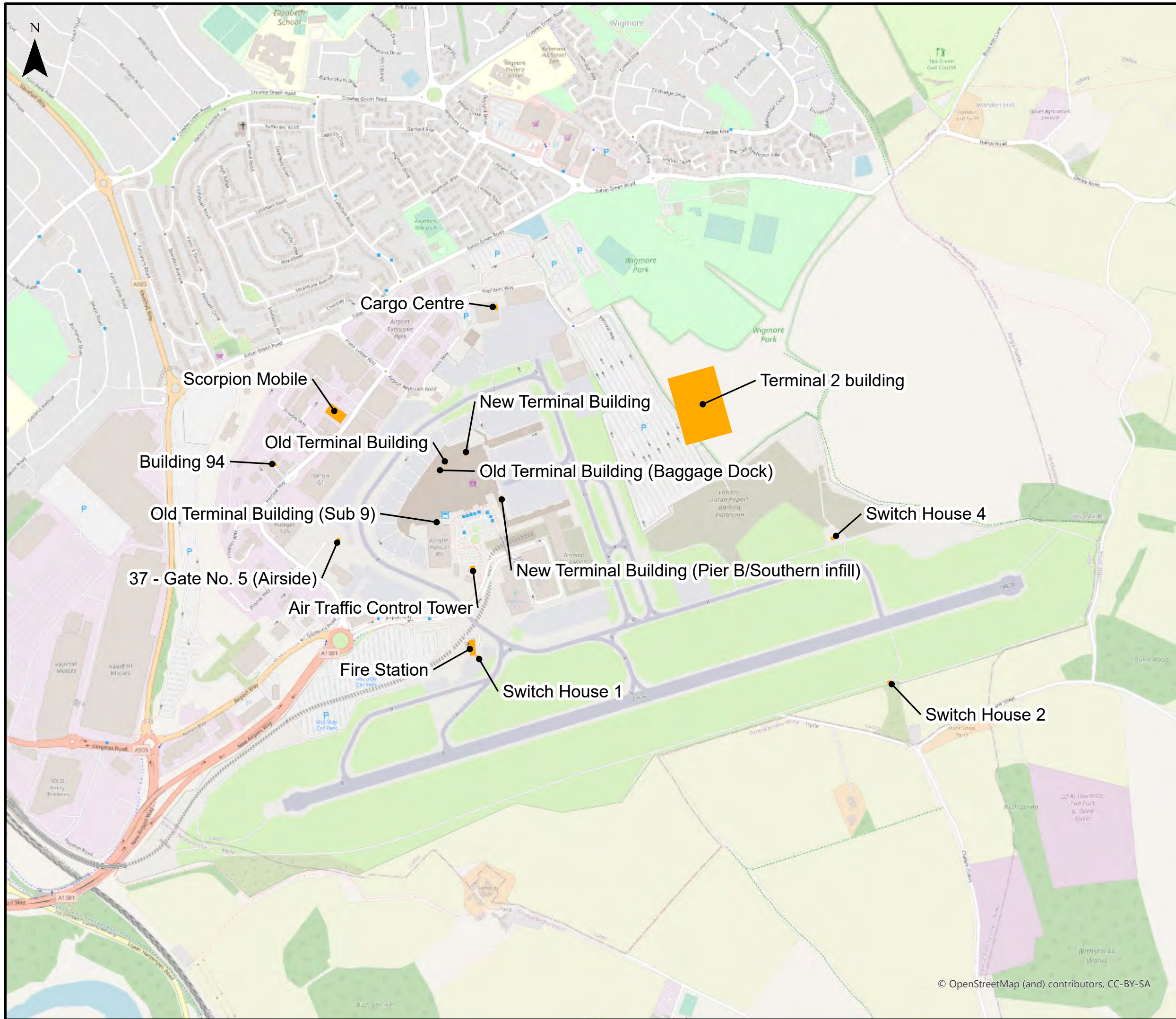
Drawing Title

Figure 7.30 Location of modelled
Ground Support Equipment (GSE)

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	01/02/23	1:10,000	A3

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Legend

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

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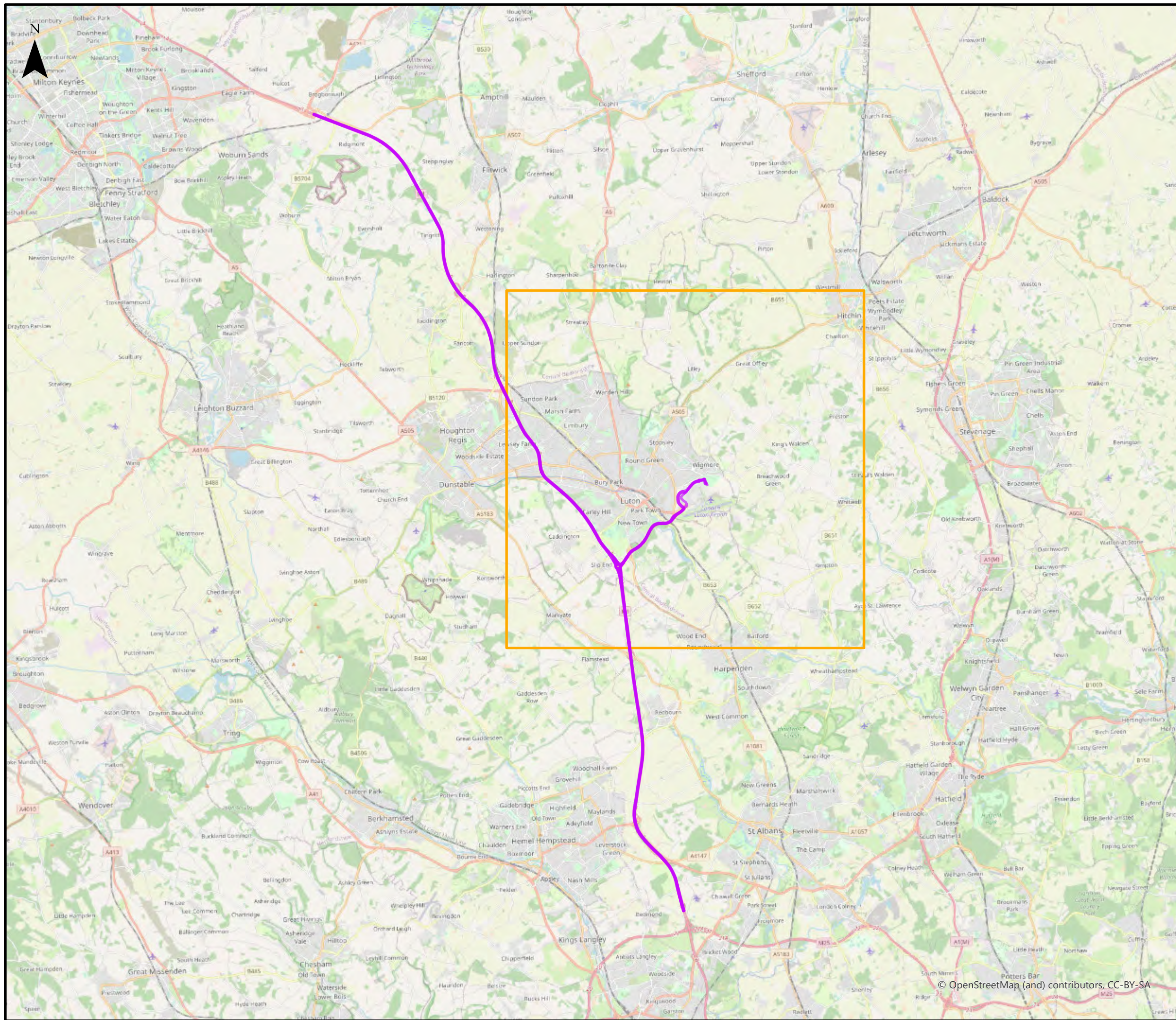
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Drawing Title
Figure 7.31 Location of modelled heating and energy plant

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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Legend

- Grid Area
- Assumed construction traffic route

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Drawing Title
Figure 7.32 Assumed construction traffic route

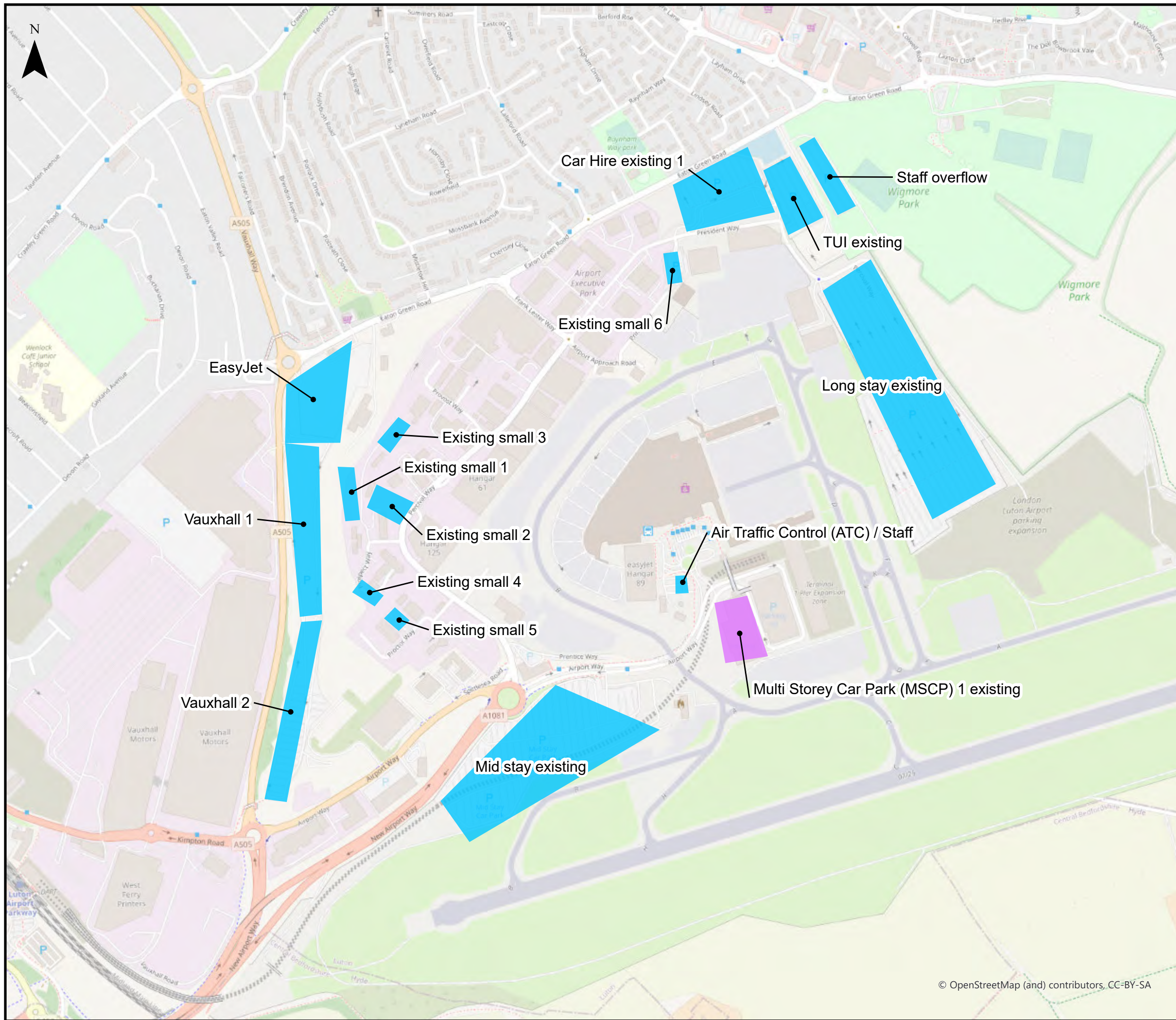
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Legend

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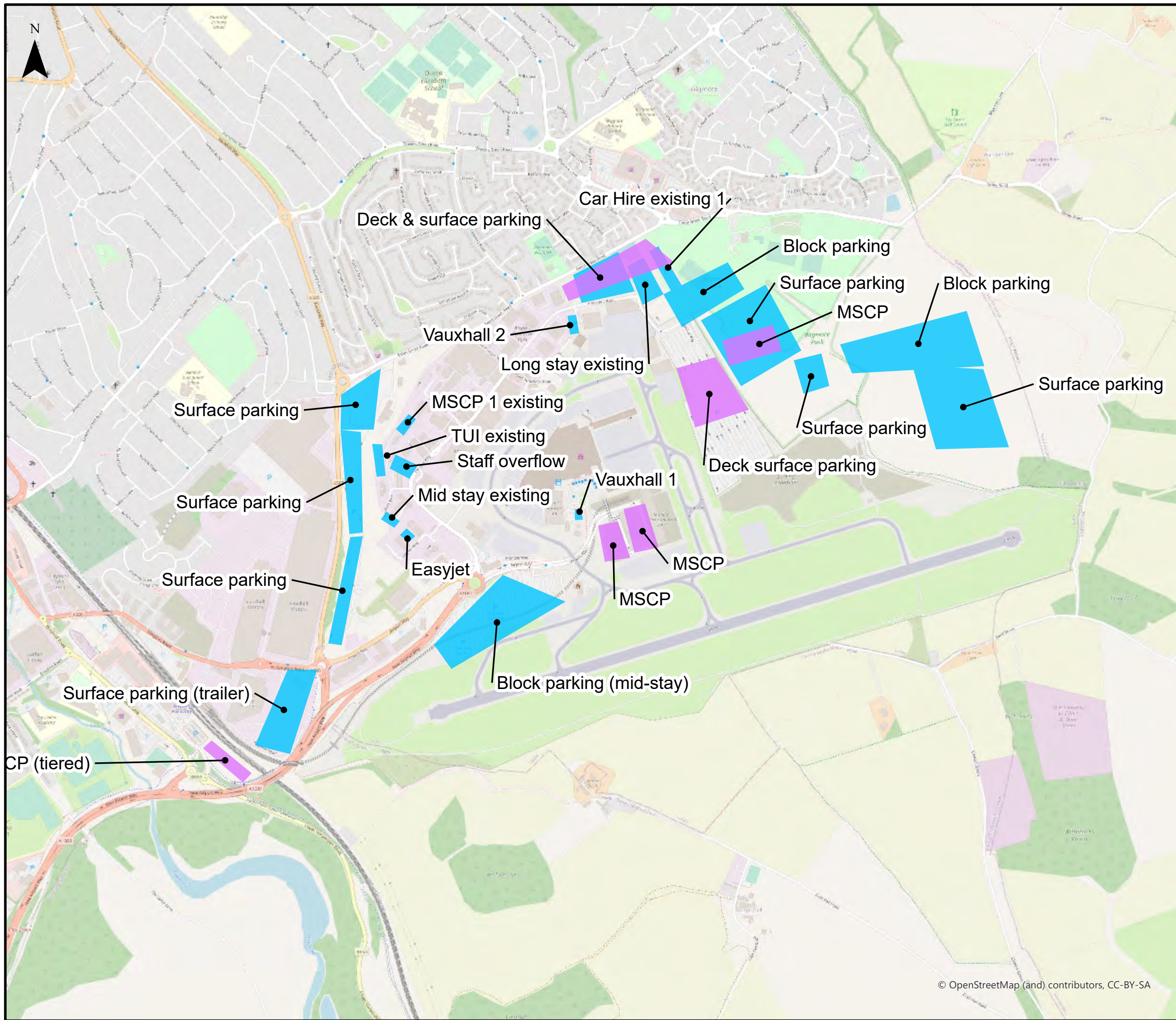
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Drawing Title
Figure 7.33 Location of modelled car parks in baseline and future Do-Minimum (DM) scenarios

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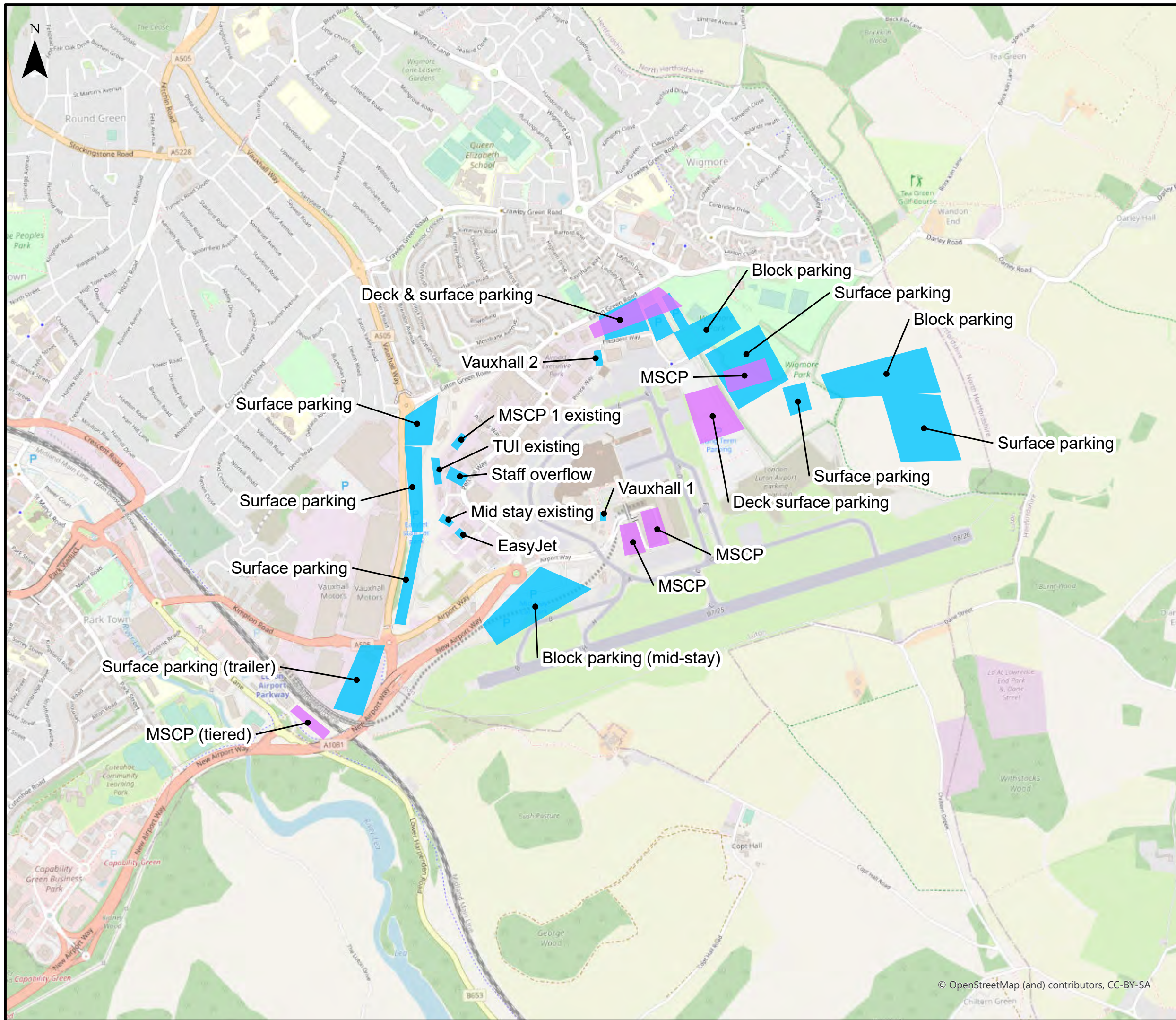
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Drawing Title
 Figure 7.34 Location of modelled car parks in 2027
 Do-Something (DS) scenario

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
Drawn AB	Checked SB	Approved CS	Date 01/02/23	Scale 1:12,500	Size A3

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

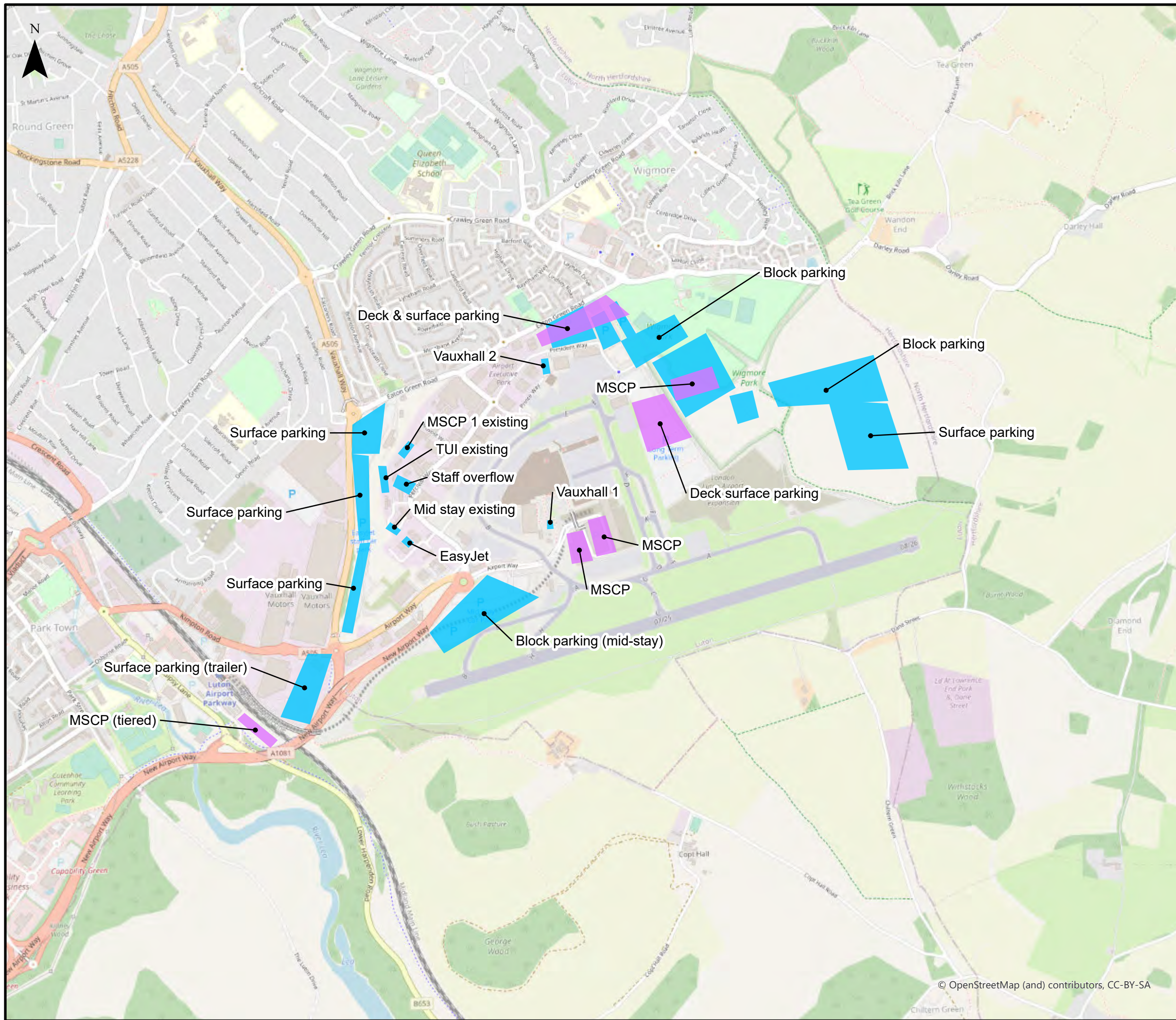
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- Legend**
- Surface Car Park (Do-Something (DS) 2043)
 - Multi-Storey Car Park (MSCP) (Do-Something (DS) 2043)

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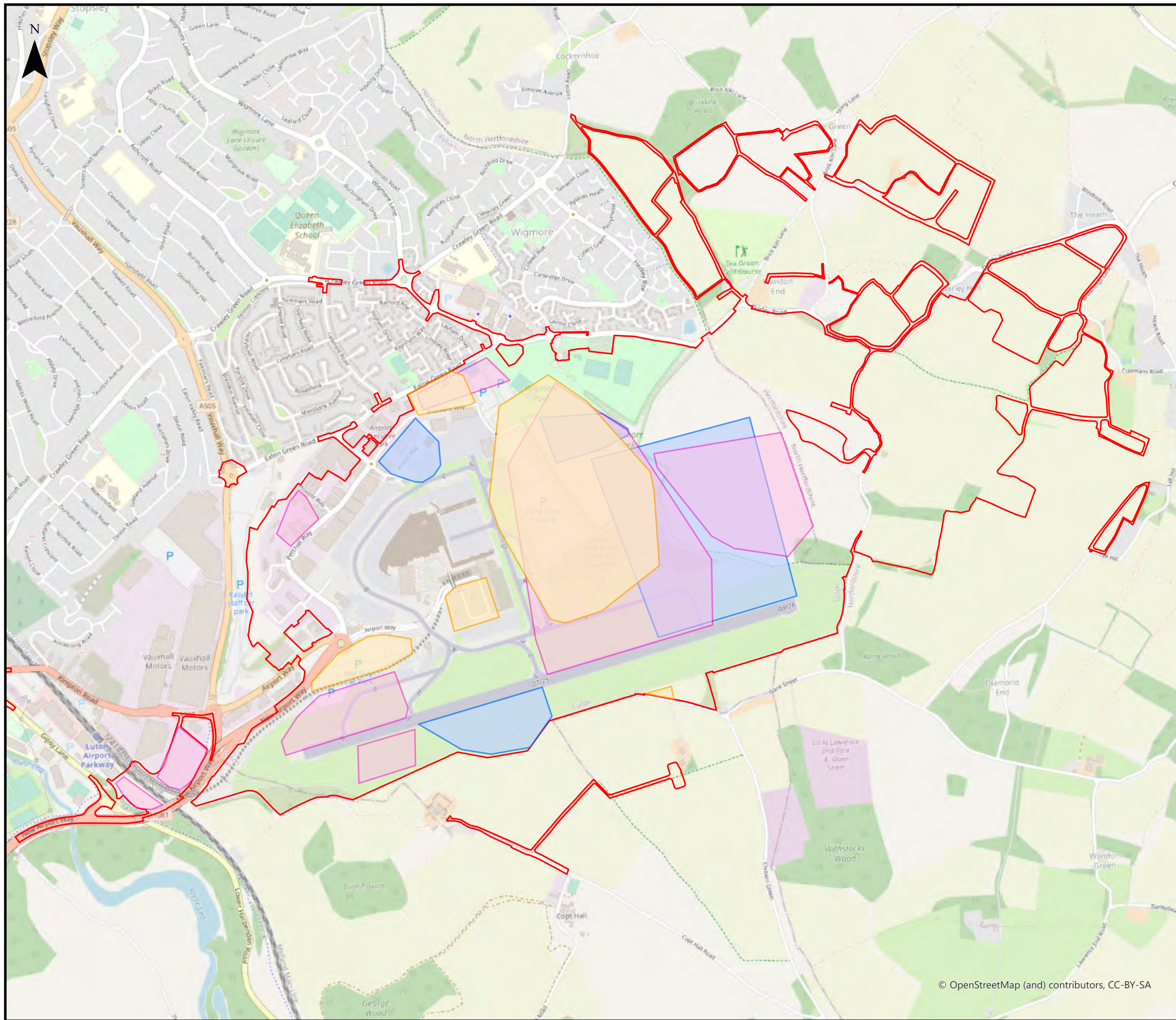
**London Luton Airport Expansion
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Drawing Title
 Figure 7.36 Location of modelled car parks in 2043 Do-Something (DS) scenario

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

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Legend

- Order Limits
- NRMM 2027
- NRMM 2039
- NRMM 2043

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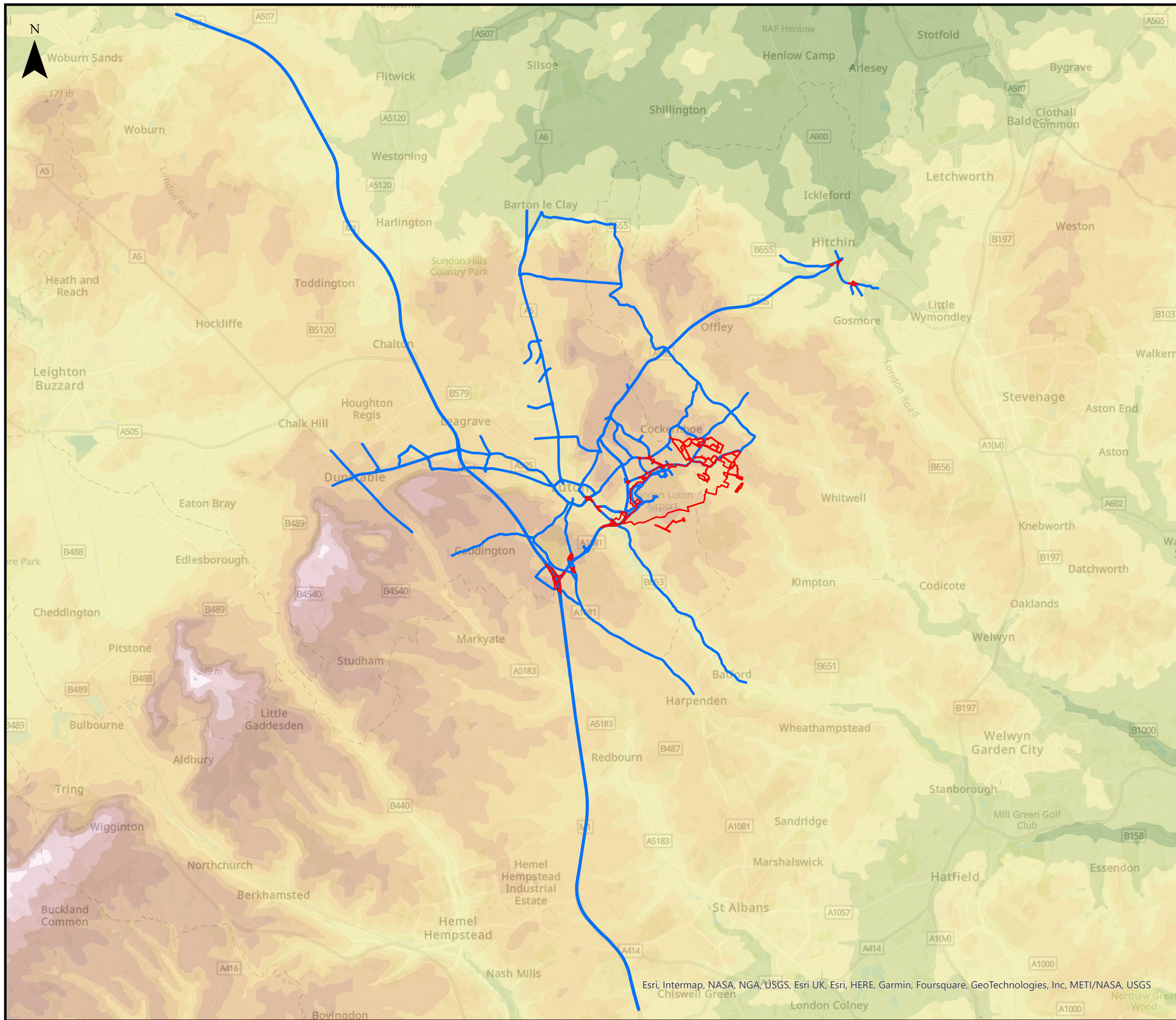
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Drawing Title
Figure 7.37 Location of Non-Road Mobile Machinery (NRMM) and concrete batching plant emissions

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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AB	SB	CS	01/02/23	1:15,000	A3

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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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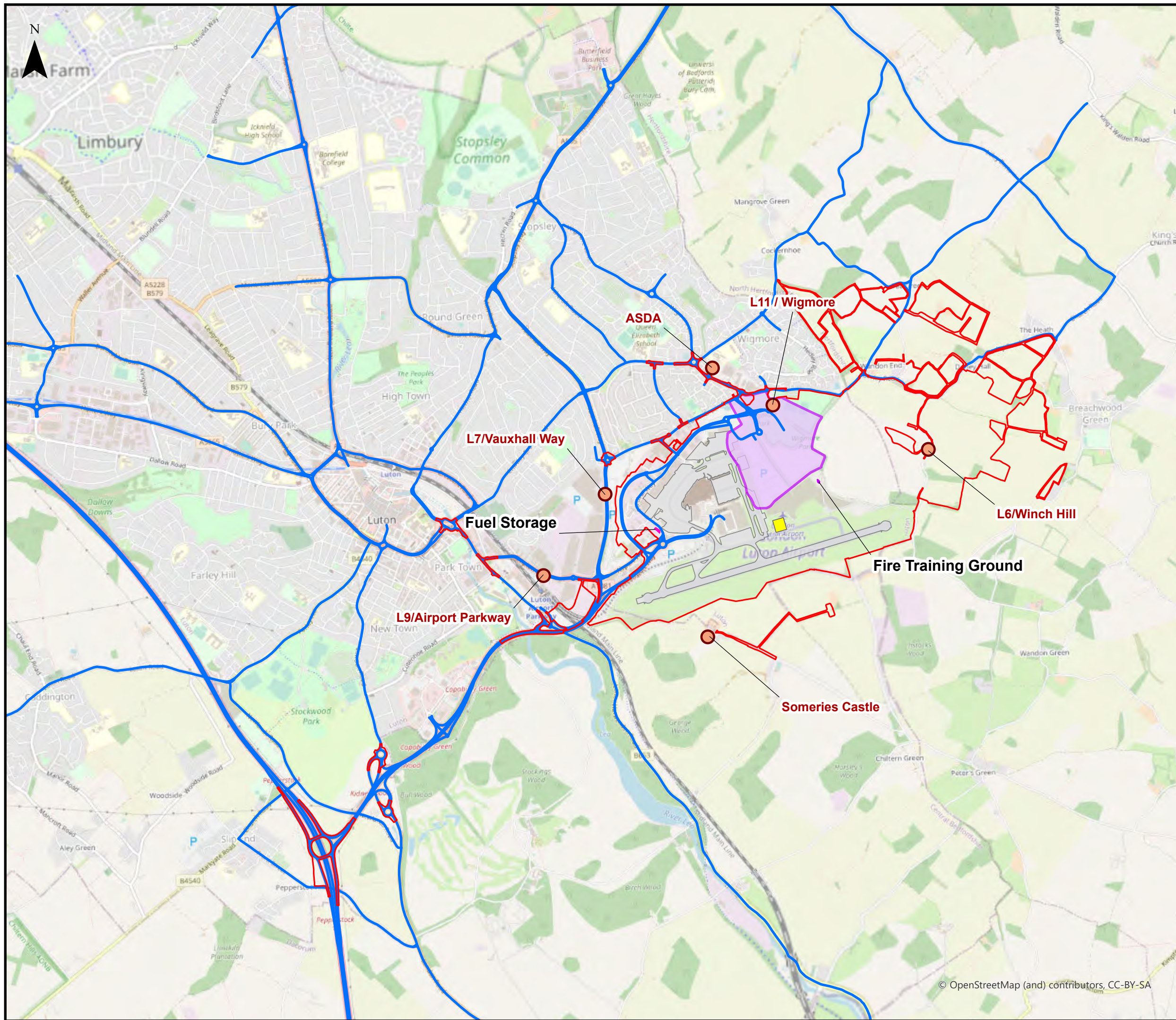
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Drawing Title
 Figure 7.38 Modelled terrain data

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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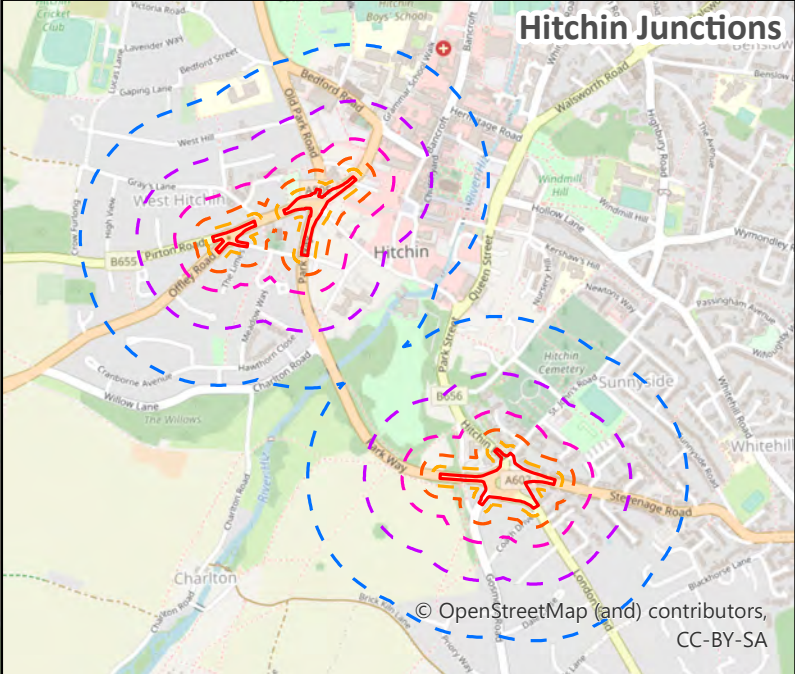
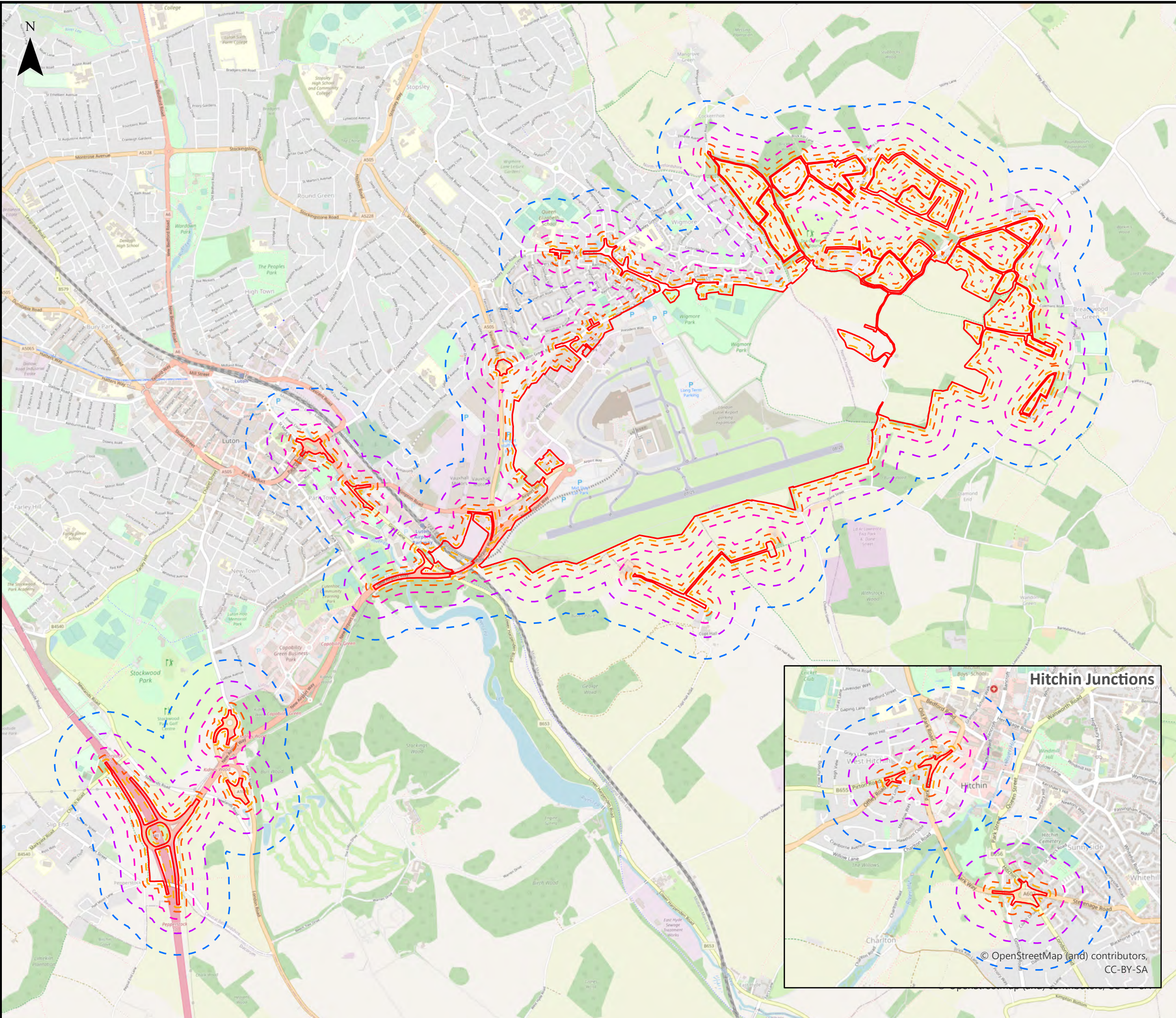
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Drawing Title
Figure 7.39 Odour survey locations and odour source locations

Purpose of issue SUITABLE FOR INFORMATION				Suitability S2	
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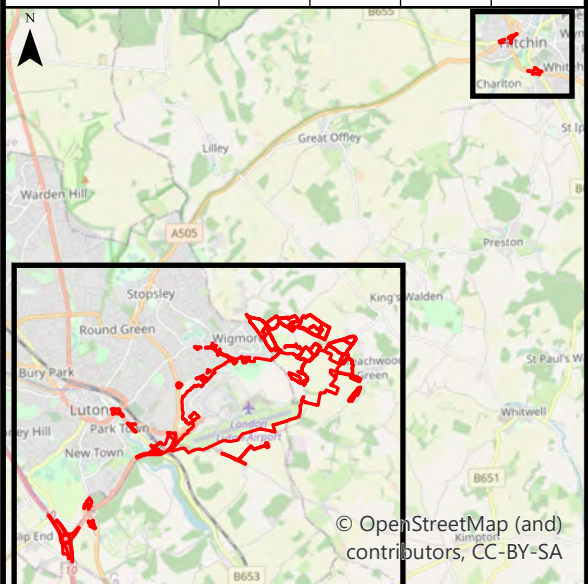
Legend

Order Limits

Construction Dust Buffers

- 20m
- 50m
- 100m
- 200m
- 350m

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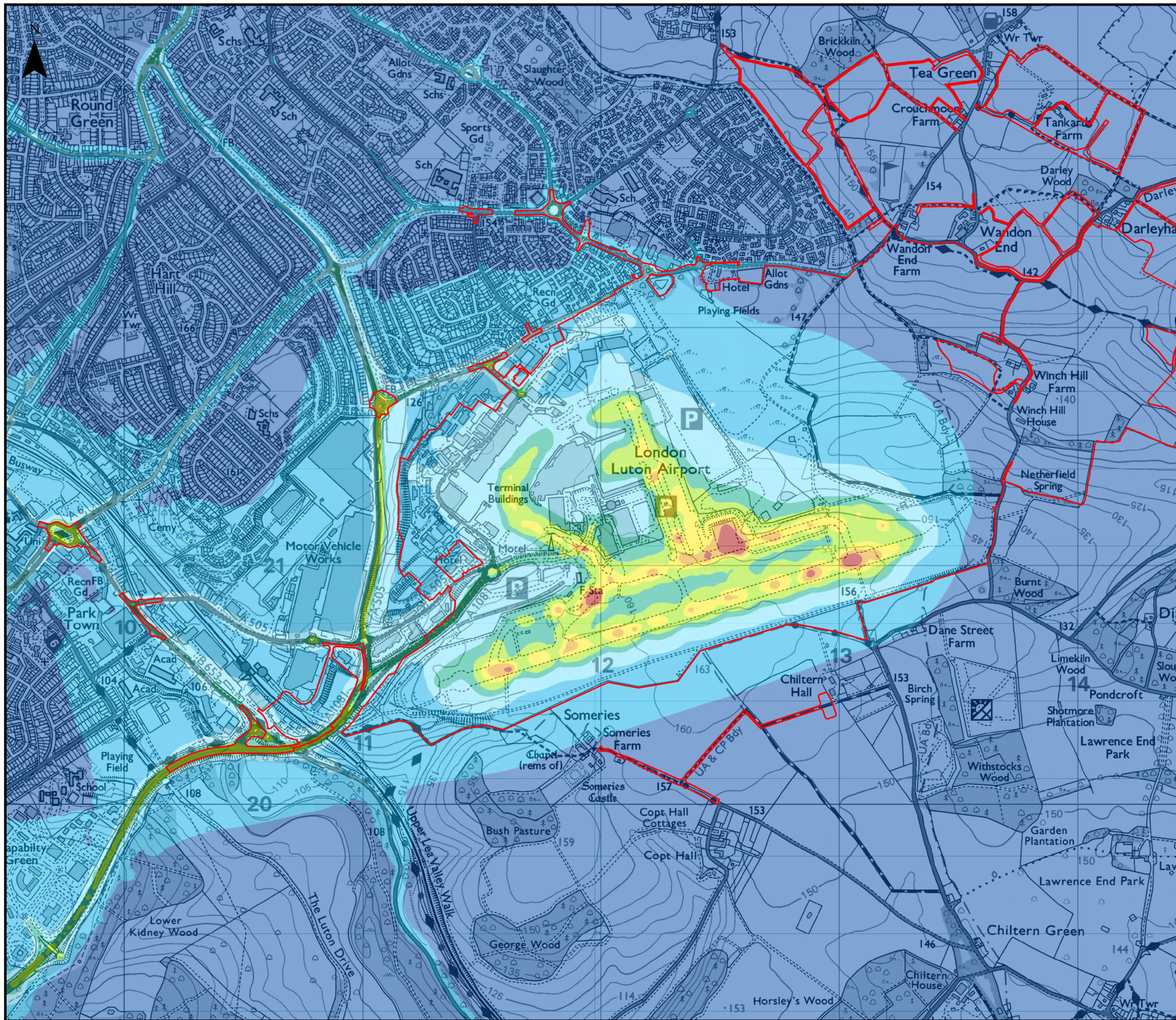
Figure 7.40 Construction Dust Buffers

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	01/02/23	1:25,000	A3

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Legend

Order Limits

2027 Nitrogen Dioxide (NO₂) Total (µg/m³)

- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- > 60

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P02
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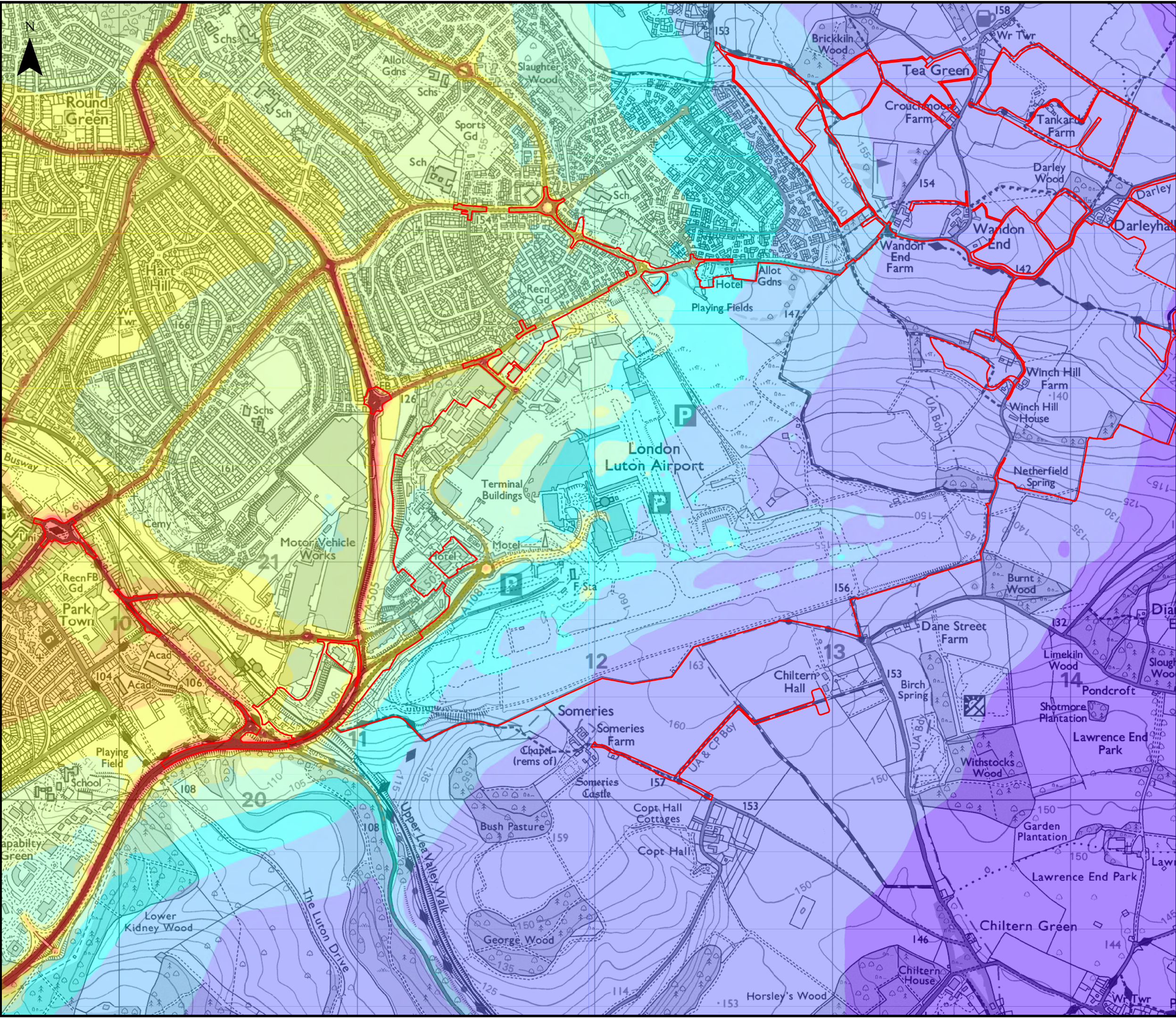
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Drawing Title
Figure 7.41 Assessment Phase 1 Core (2027): Annual mean Nitrogen Dioxide (NO₂) contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
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LLADCO-3C-ARP-00-00-DR-YE-0503	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Order Limits
- 2027 PM₁₀ Total (µg/m³)**
- < 12.8
- 12.8 - 13.2
- 13.2 - 13.6
- 13 - 14
- 14 - 14.4
- 14 - 14.8
- 14.8 - 15.2
- 15.2 - 15.6
- 15.6 - 16
- >16

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P02
First Issue	AB	SB	CS	01/02/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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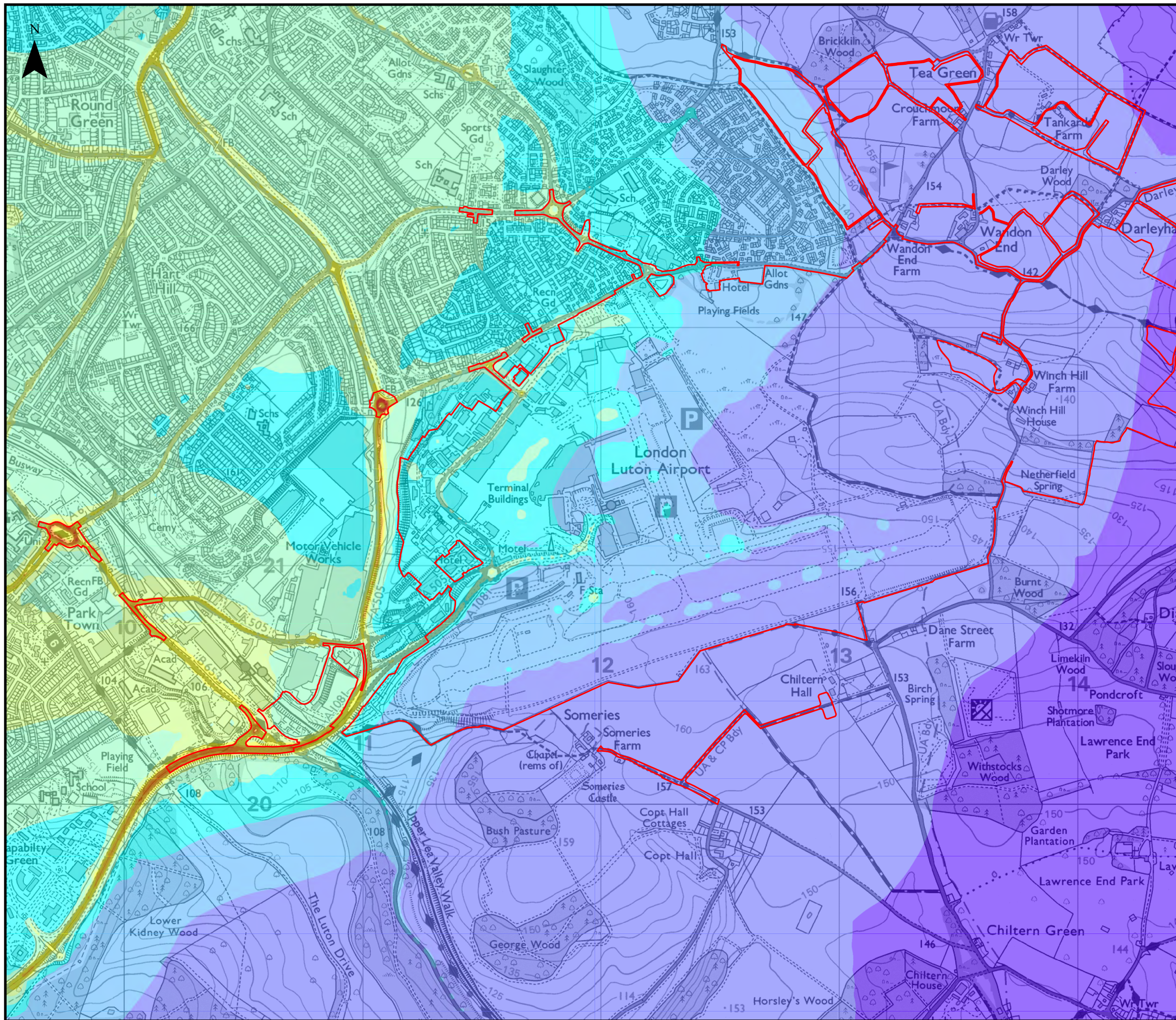
London Luton Airport Expansion Development Consent Order

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

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0504	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

Order Limits

2027 PM_{2.5} Total (µg/m³)

- < 8.8
- 8.8 - 9.2
- 9.2 - 9.6
- 9.6 - 10
- 10 - 10.4
- 10.4 - 10.8
- 10.8 - 11.2
- 11.2 - 11.6
- 11.6 - 12
- > 12

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P02
First Issue	AB	SB	CS	01/02/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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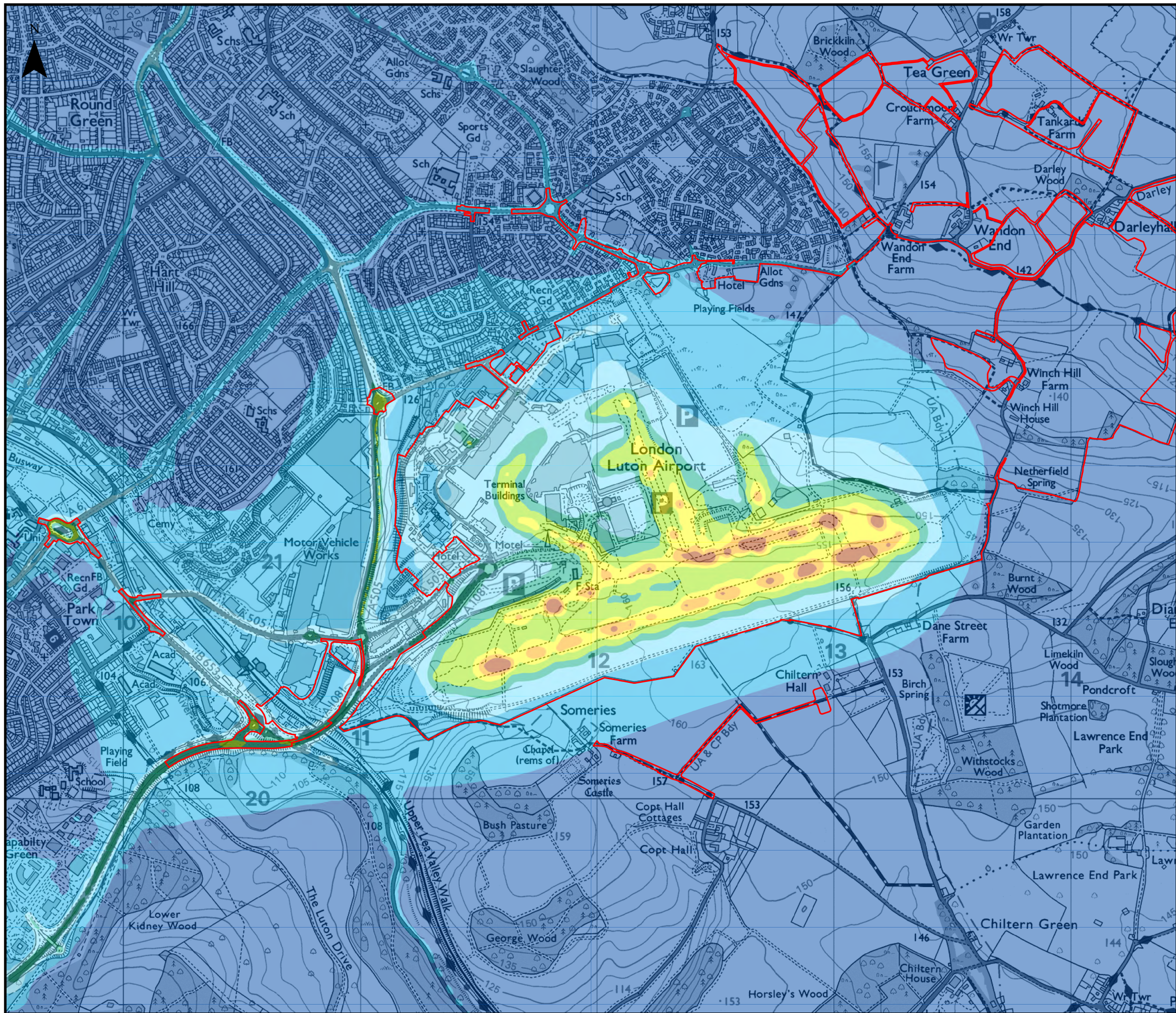
London Luton Airport Expansion Development Consent Order

Drawing Title
Figure 7.43 Assessment Phase 1 Core (2027): Annual mean PM_{2.5} contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0505	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

Order Limits

2039 Nitrogen Dioxide (NO₂) Total (µg/m³)

- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- > 60

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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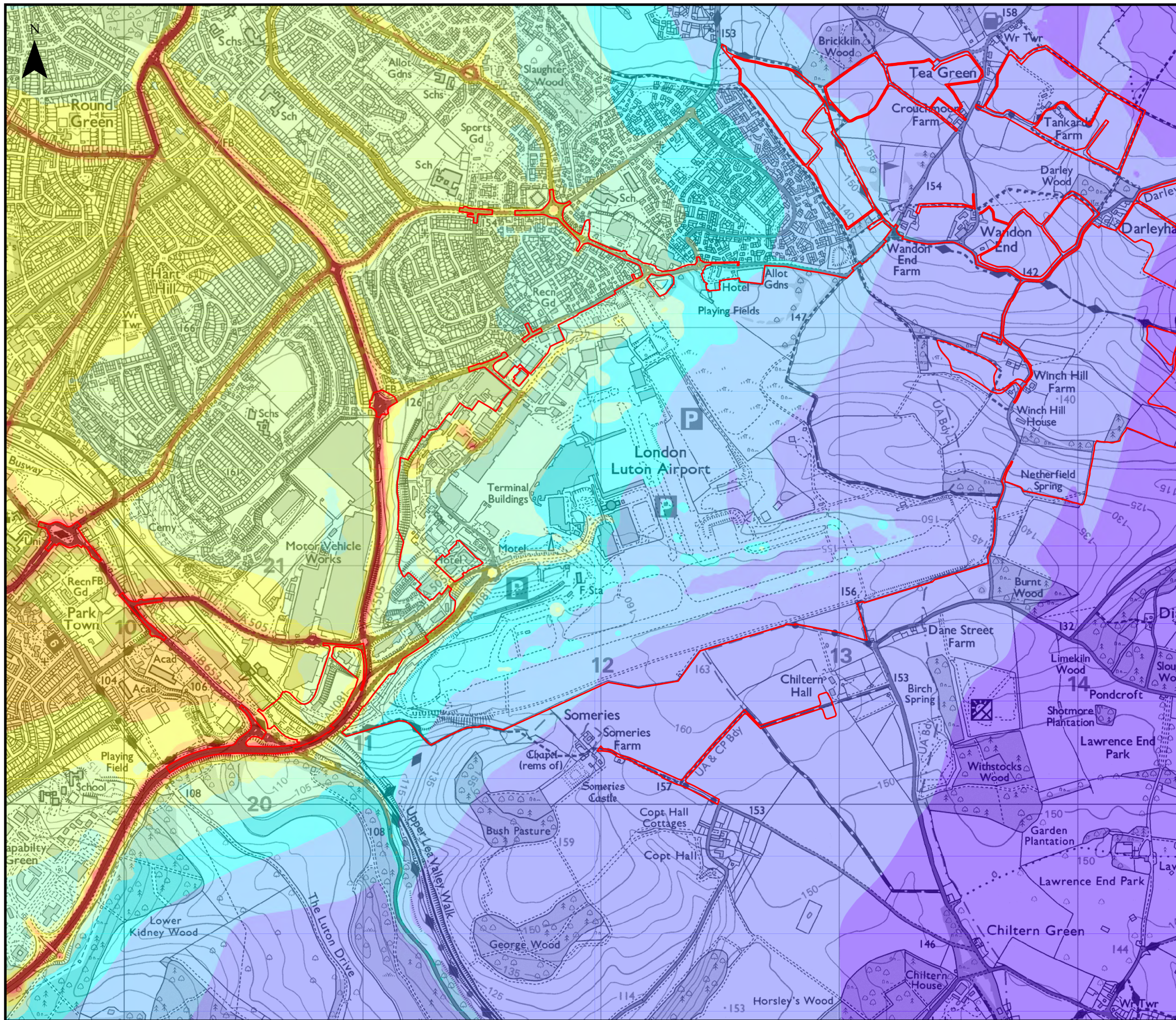
London Luton Airport Expansion Development Consent Order

Drawing Title
Figure 7.44 Assessment Phase 2a Core (2039): Annual mean Nitrogen Dioxide (NO₂) contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0510	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Order Limits
- 2039 PM₁₀ Total (µg/m³)**
- < 12.8
- 12.8 - 13.2
- 13.2 - 13.6
- 13 - 14
- 14 - 14.4
- 14 - 14.8
- 14.8 - 15.2
- 15.2 - 15.6
- 15.6 - 16
- >16

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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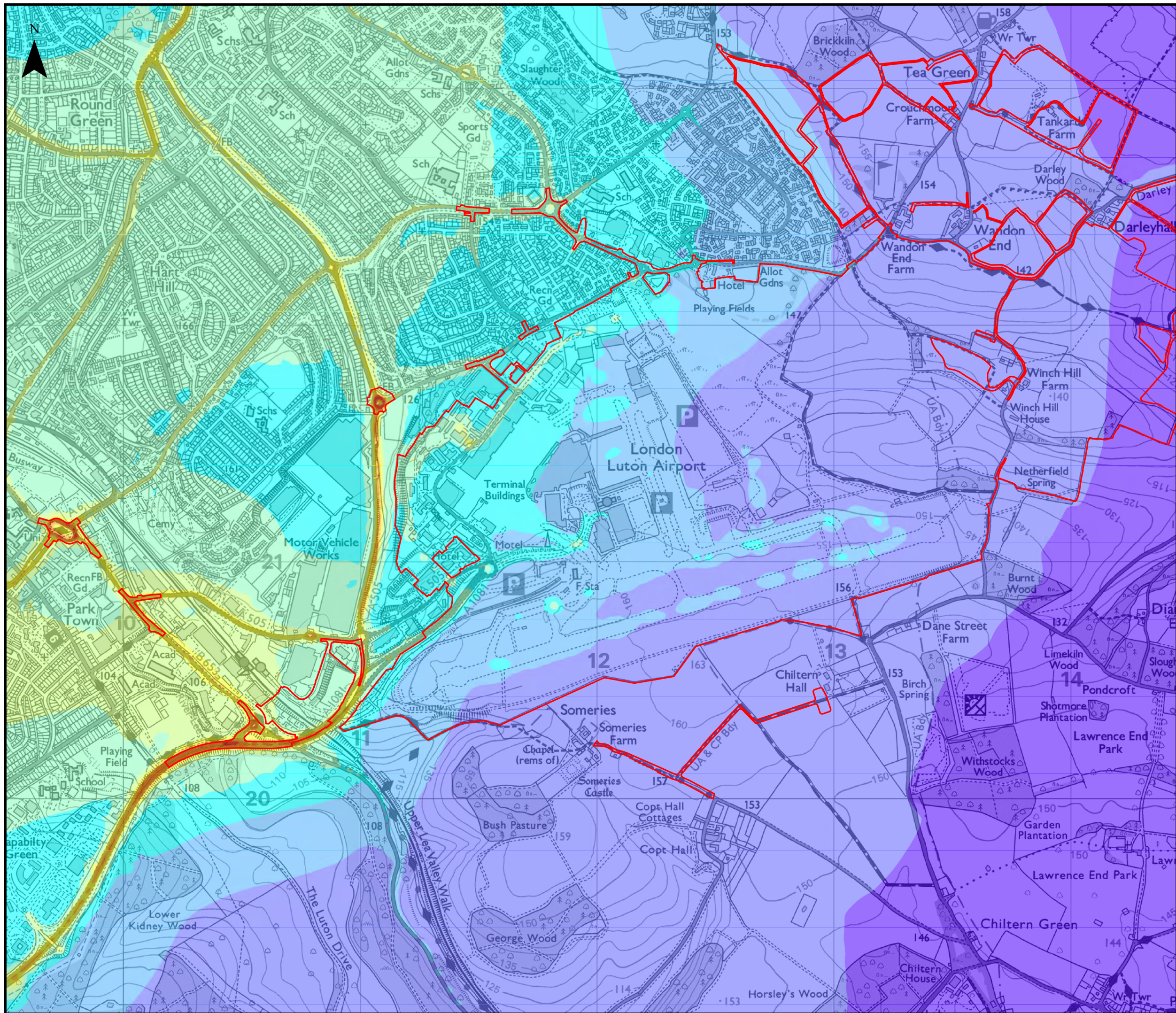
**London Luton Airport Expansion
Development Consent Order**

Drawing Title
Figure 7.45 Assessment Phase 2a Core (2039):
Annual mean PM₁₀ contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0511	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Order Limits
- 2039 PM_{2.5} Total (µg/m³)**
- < 8.8
- 8.8 - 9.2
- 9.2 - 9.6
- 9.6 - 10
- 10 - 10.4
- 10.4 - 10.8
- 10.8 - 11.2
- 11.2 - 11.6
- 11.6 - 12
- > 12

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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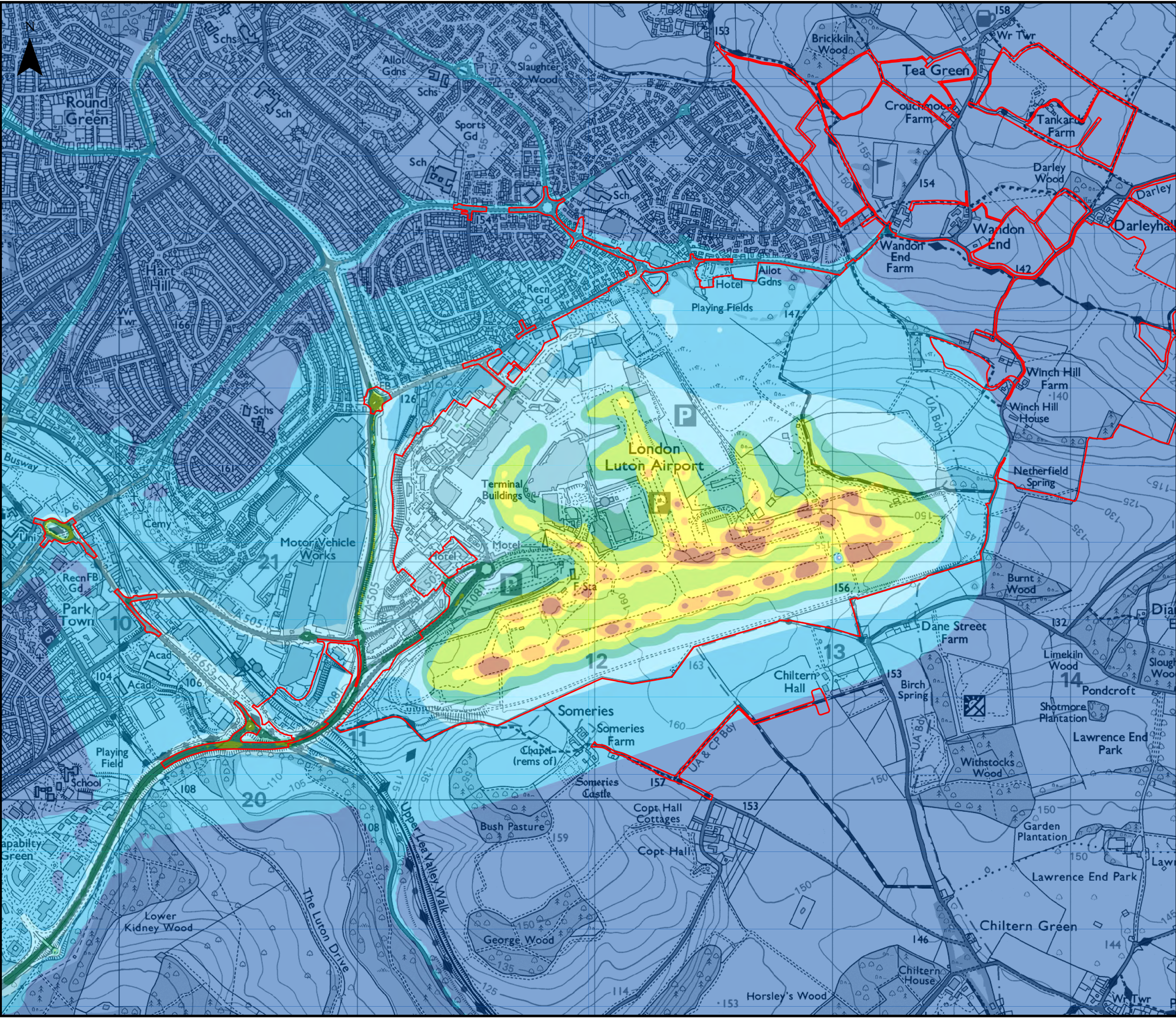
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Drawing Title
Figure 7.46 Assessment Phase 2a Core (2039): Annual mean (PM_{2.5}) contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0512	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Order Limits
- 2043 Nitrogen Dioxide (NO₂) Total (µg/m³)**
- < 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- > 60

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P01
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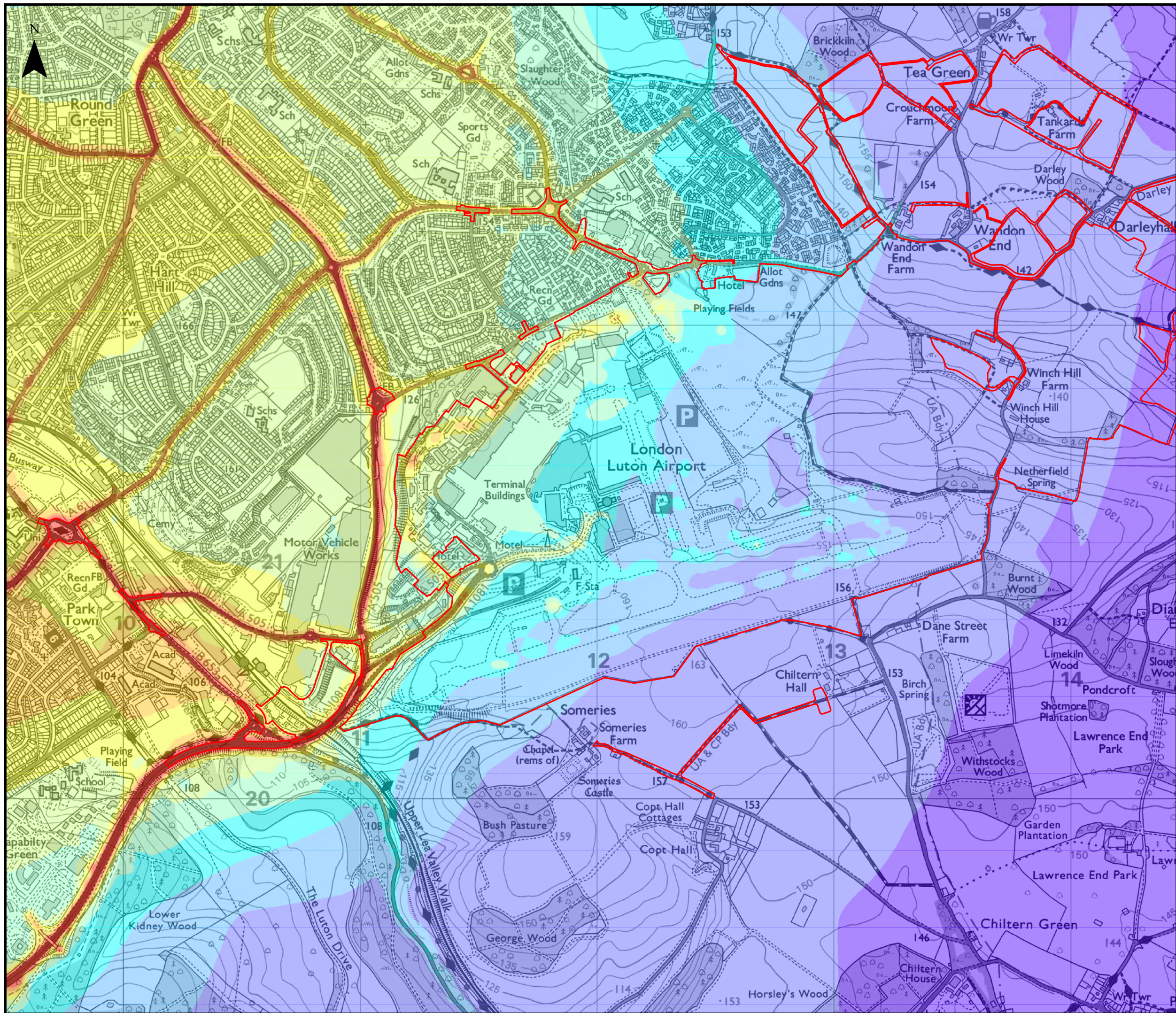
Drawing Title
 Figure 7.47 Assessment Phase 2b Core (2043): Annual mean Nitrogen Dioxide (NO₂) contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0513	P01

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Legend

- Order Limits
- 2043 PM₁₀ Total (µg/m³)**
- < 12.8
- 12.8 - 13.2
- 13.2 - 13.6
- 13 - 14
- 14 - 14.4
- 14 - 14.8
- 14.8 - 15.2
- 15.2 - 15.6
- 15.6 - 16
- >16

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P01
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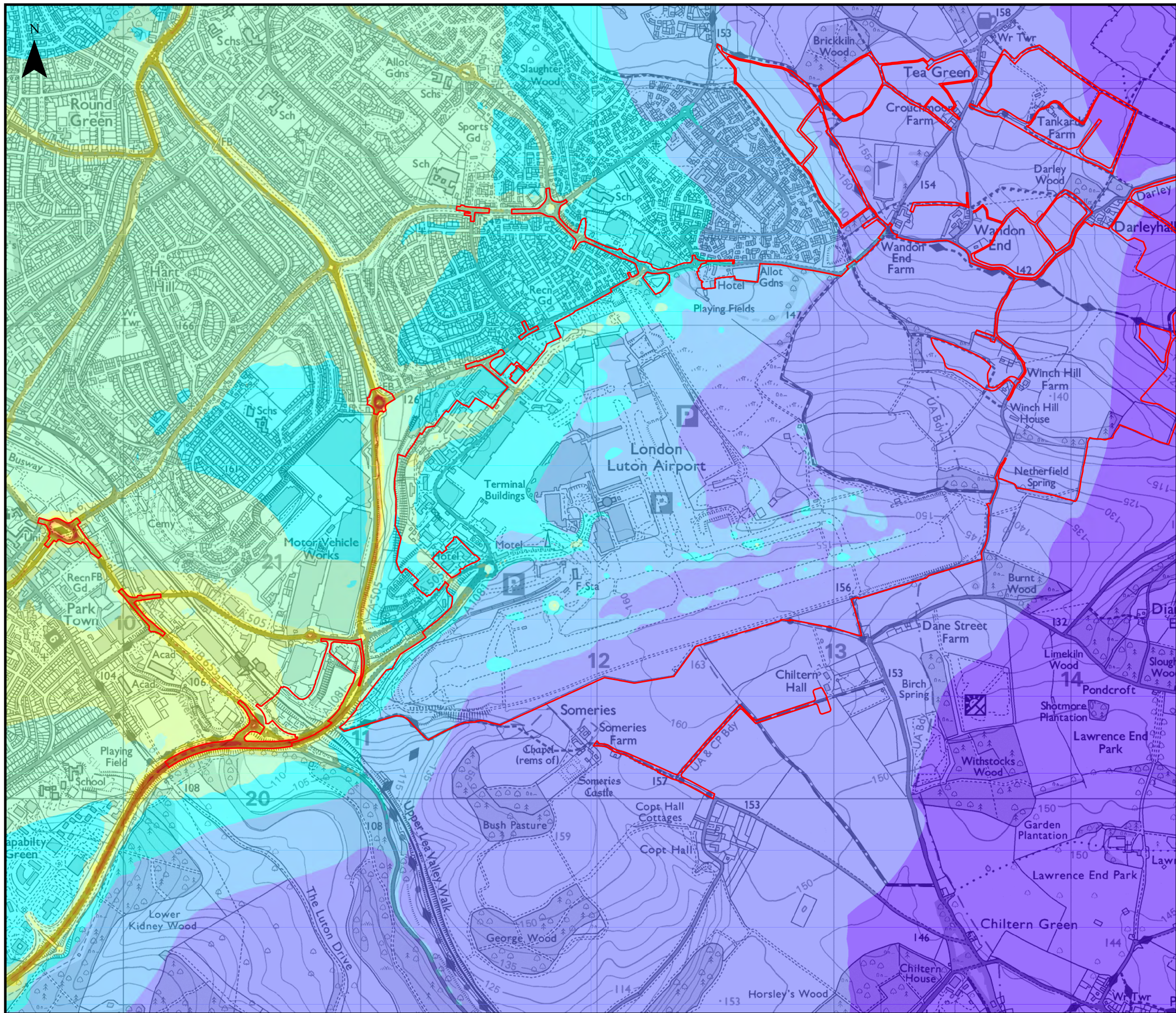
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Drawing Title
 Figure 7.48 Assessment Phase 2b Core (2043):
 Annual mean (PM₁₀) contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0514	P01
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Legend

- Order Limits
- 2043 PM_{2.5} Total (µg/m³)**
- < 8.8
- 8.8 - 9.2
- 9.2 - 9.6
- 9.6 - 10
- 10 - 10.4
- 10.4 - 10.8
- 10.8 - 11.2
- 11.2 - 11.6
- 11.6 - 12
- > 12

Additional submissions (updated in response to Rule 9 letter)	AB	SB	CS	19/06/23	P01
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Drawing Title
Figure 7.49 Assessment Phase 2b Core (2043): Annual mean PM_{2.5} contour plot

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
AB	SB	CS	19/06/23	1:15,000	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-0515	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	