

February 2023

# London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents  
**5.03 Chapter 16 Noise and Vibration Figures 16.98a -  
16.104**

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

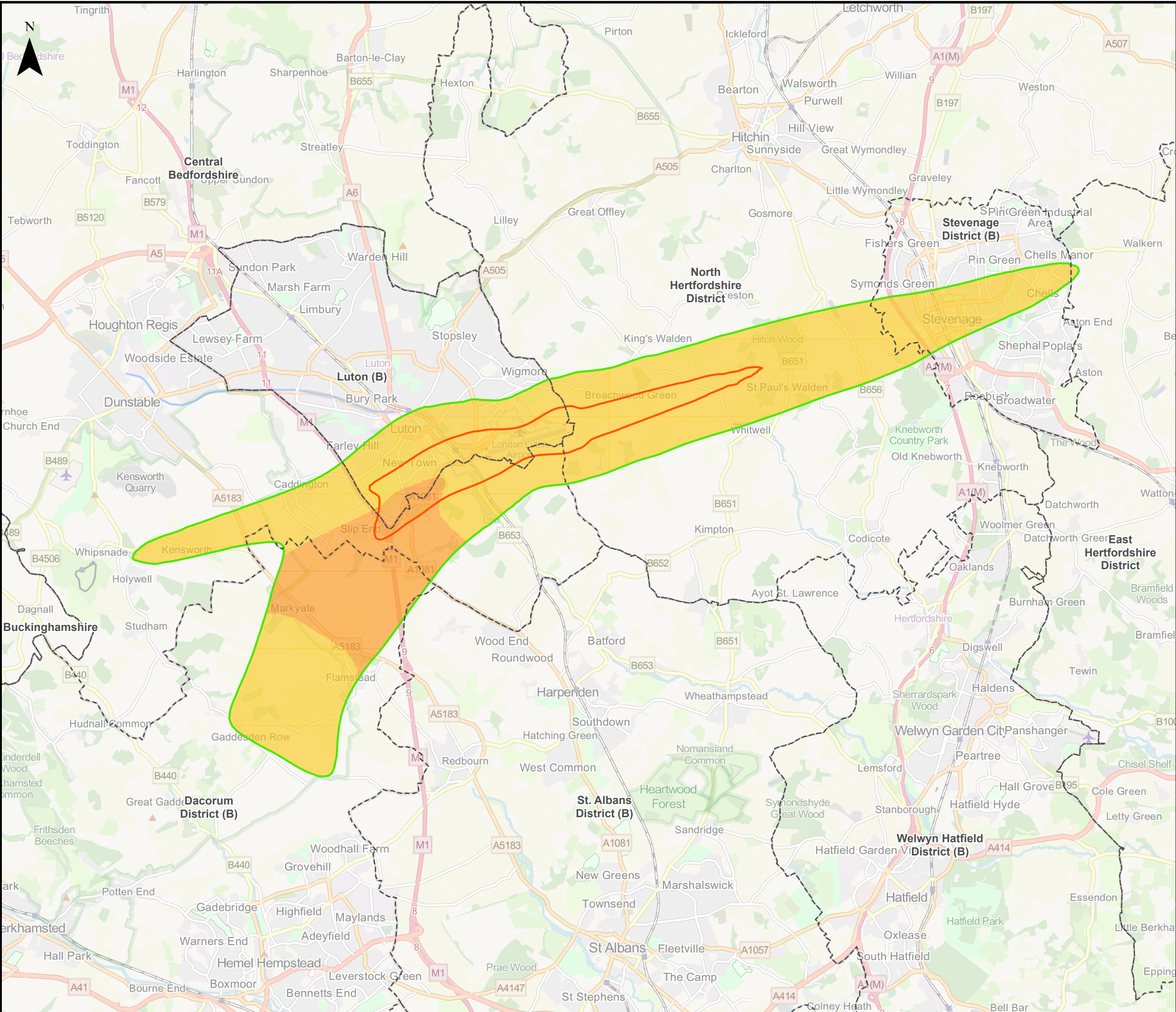
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5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.98a – 16.104

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

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
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**

- Local Authority Boundaries
- Change in 2027 Do-Something Faster Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)**
- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

- Air Noise Contours in Decibels (dB) (2027 Do-something Faster Growth Night-time LAeq,8h)**
- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

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First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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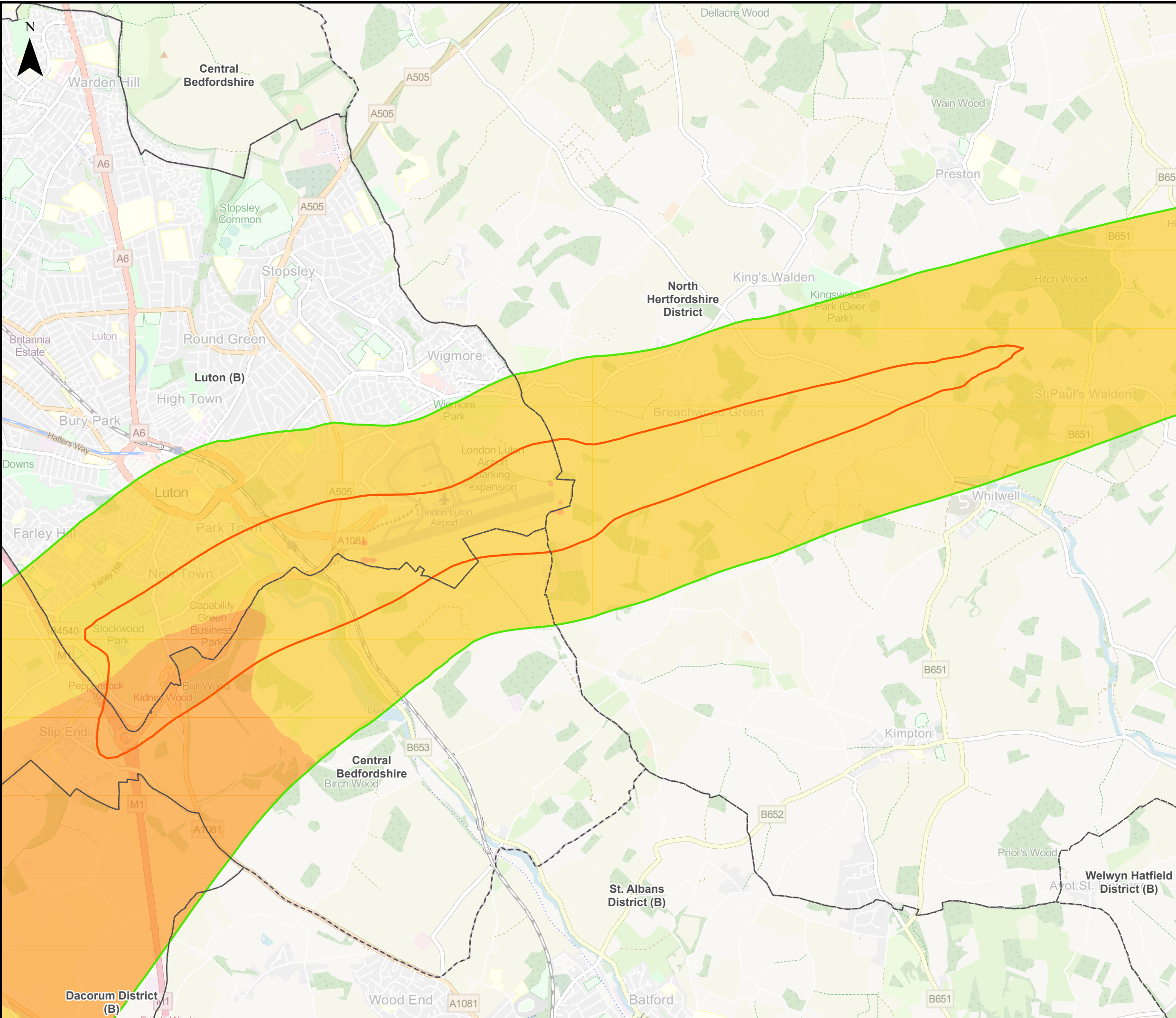
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Drawing Title **Figure 16.98a**  
**Change in 2027 Do-Something Faster Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0105	P01
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**Legend**

- Local Authority Boundaries

**Change in 2027 Do-Something Faster Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)**

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

**Air Noise Contours in Decibels (dB) (2027 Do-something Faster Growth Night-time LAeq,8h)**

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

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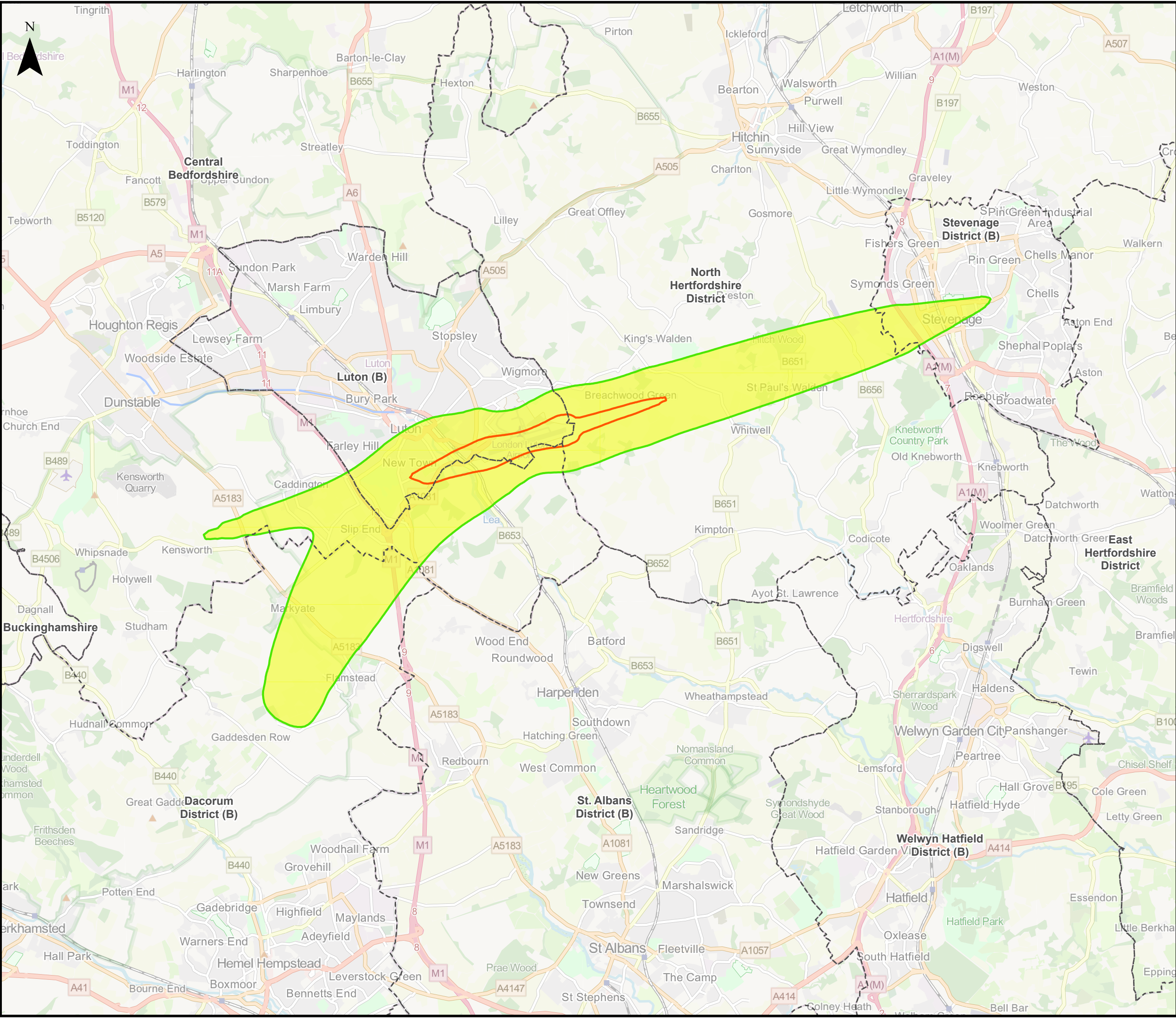
First Issue	MAB	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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Drawing Title						Figure 16.98b Change in 2027 Do-Something Faster Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)					
Purpose of issue						Suitability					
SUITABLE FOR INFORMATION						S2					
Drawn	Checked	Approved	Date	Scale	Size	Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:40,000	A3	MAB	CSh	CS	31/01/23	1:40,000	A3
DCO Application Ref.		APFP Regulation		DCO Document Ref.							
TR020001		APFP 5(2)(a)		TR020001/APP/5.03							
Drawing Number										Revision	
LLADCO-3C-AEC-00-00-DR-YE-0106										P01	
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**Legend**

- Local Authority Boundaries

**Change in 2030 Do-Something Slower Growth - Do-Minimum Daytime LAeq,16h Air Noise Contours in Decibels (dB)**

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

**Air Noise Contours in Decibels (dB) (2030 Do-something Slower Growth Daytime LAeq,16h)**

- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63dB - Significant Observed Adverse Effect Level (SOAEL)

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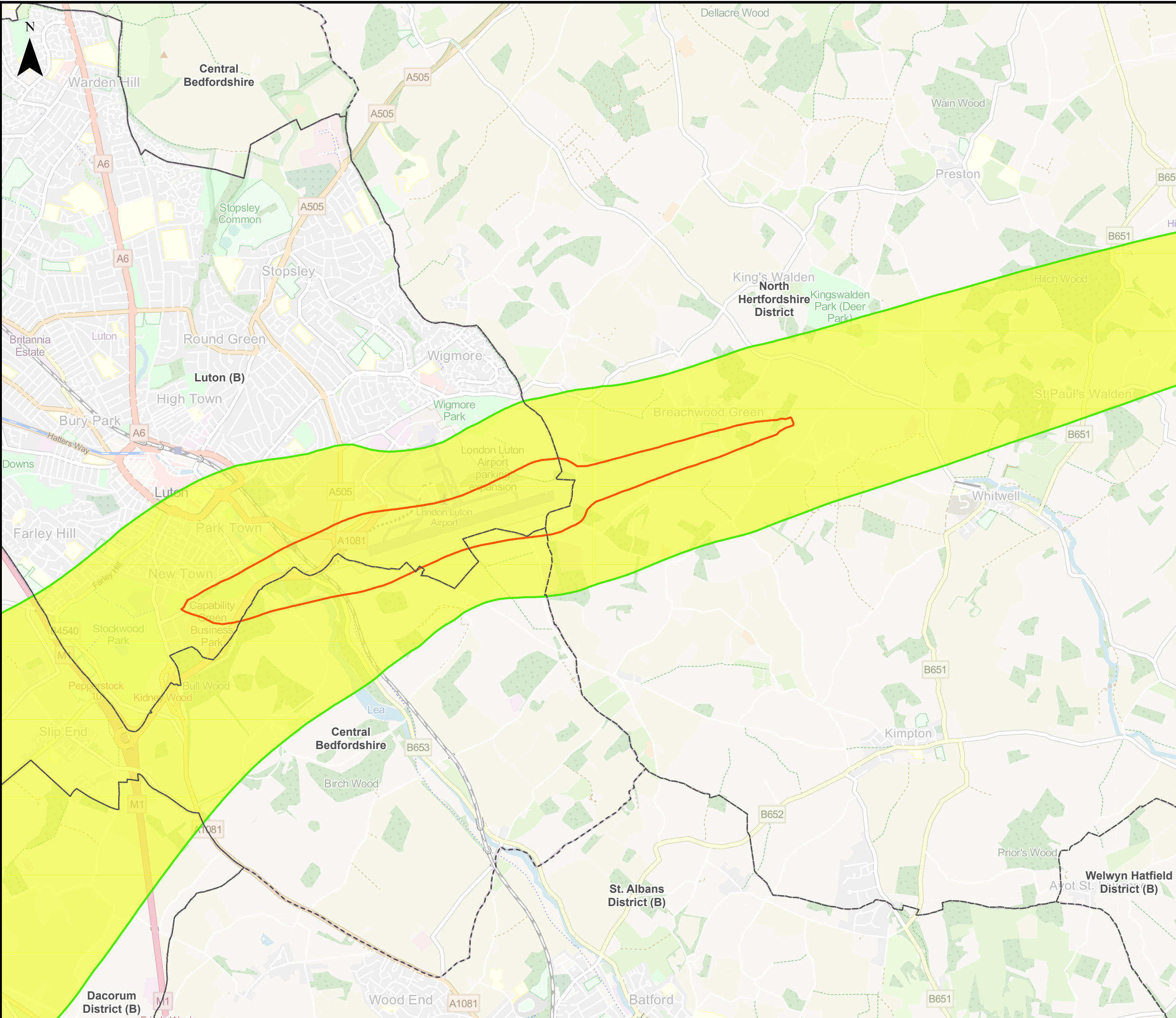
**London Luton Airport Expansion Development Consent Order**

Drawing Title **Figure 16.99a**  
**Change in 2030 Do-Something Slower Growth - Do-Minimum Daytime LAeq,16h Air Noise Contours**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0107	P01
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**Legend**

- Local Authority Boundaries

**Change in 2030 Do-Something Slower Growth - Do-Minimum Daytime LAeq,16h Air Noise Contours in Decibels (dB)**

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

**Air Noise Contours in Decibels (dB) (2030 Do-something Slower Growth Daytime LAeq,16h)**

- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63dB - Significant Observed Adverse Effect Level (SOAEL)

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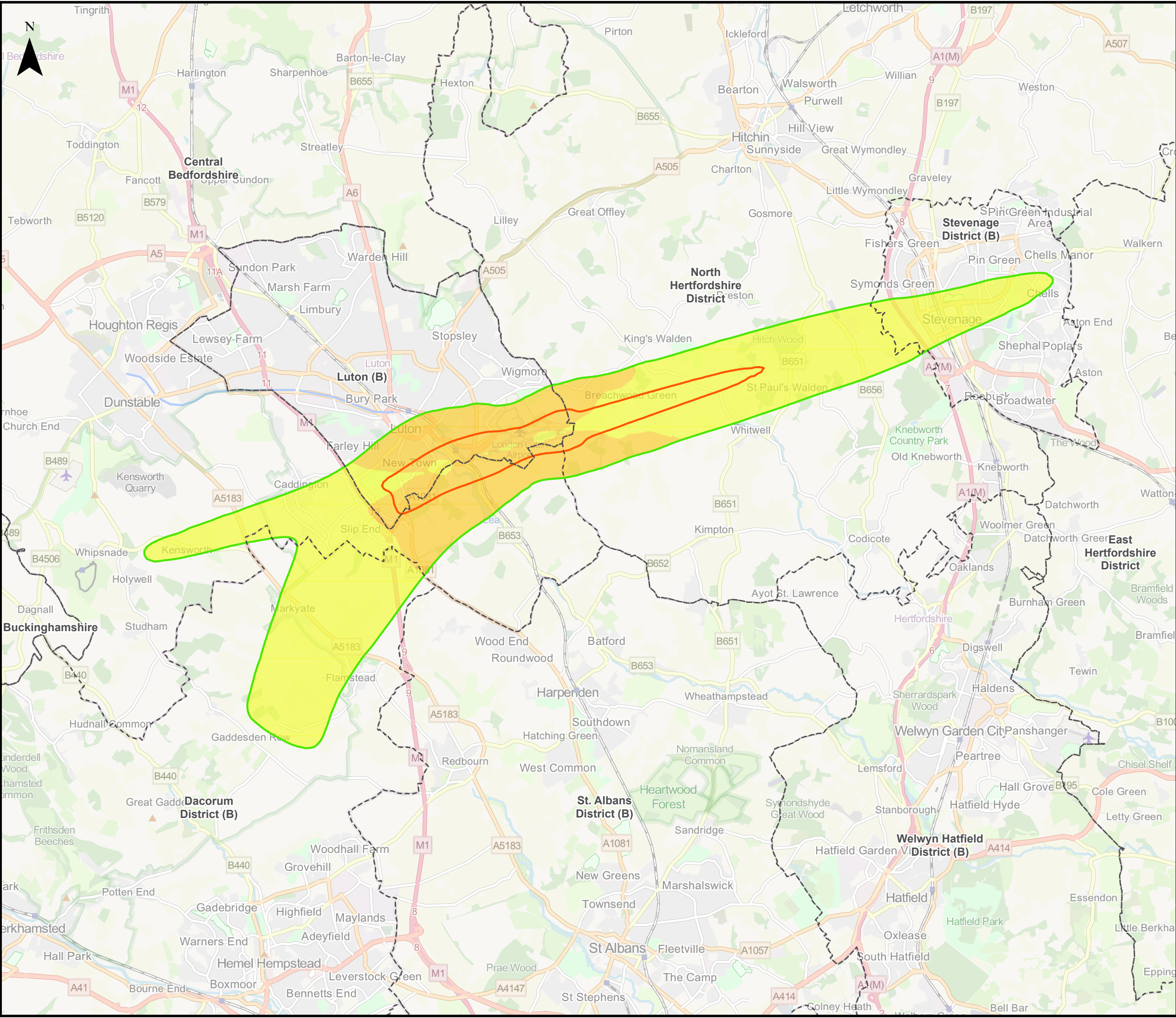
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Drawing Title					
Figure 16.99b Change in 2030 Do-Something Slower Growth - Do-Minimum Daytime LAeq,16h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)					
Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:40,000	A3
DCO Application Ref.		APFP Regulation		DCO Document Ref.	
TR020001		APFP 5(2)(a)		TR020001/APP/5.03	
Drawing Number					Revision
LLADCO-3C-AEC-00-00-DR-YE-0108					P01
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**Legend**

- Local Authority Boundaries

**Change in 2030 Do-Something Slower Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)**

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

**Air Noise Contours in Decibels (dB) (2030 Do-something Slower Growth Night-time LAeq,8h)**

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

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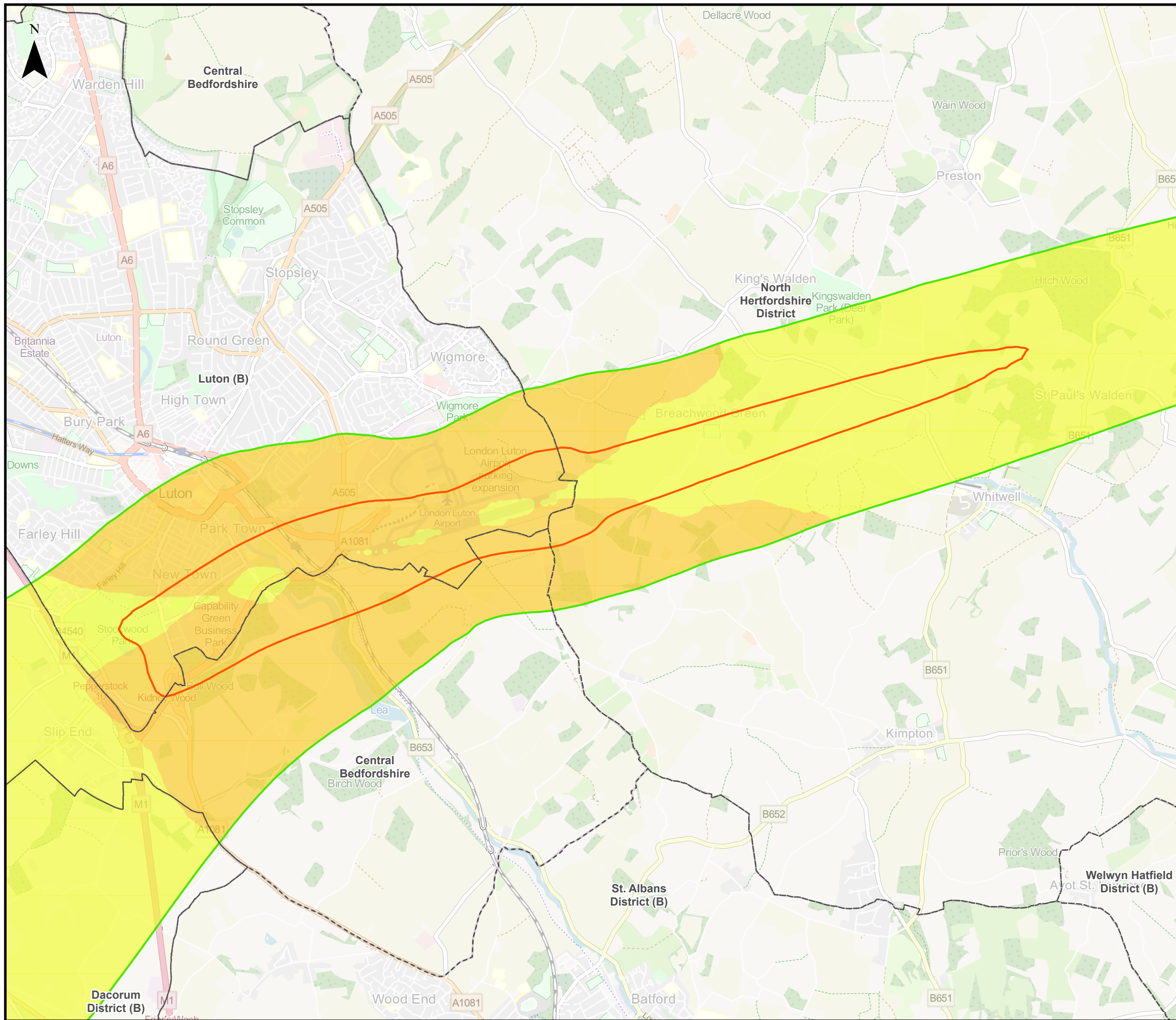
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Drawing Title: Figure 16.100a  
 Change in 2030 Do-Something Slower Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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

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LLADCO-3C-AEC-00-00-DR-YE-0109	P01
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**Legend**

- Local Authority Boundaries

**Change in 2030 Do-Something Slower Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)**

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

**Air Noise Contours in Decibels (dB) (2030 Do-something Slower Growth Night-time LAeq,8h)**

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

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Drawing Title: Figure 16.100b  
Change in 2030 Do-Something Slower Growth - Do-Minimum Night-time LAeq,8h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

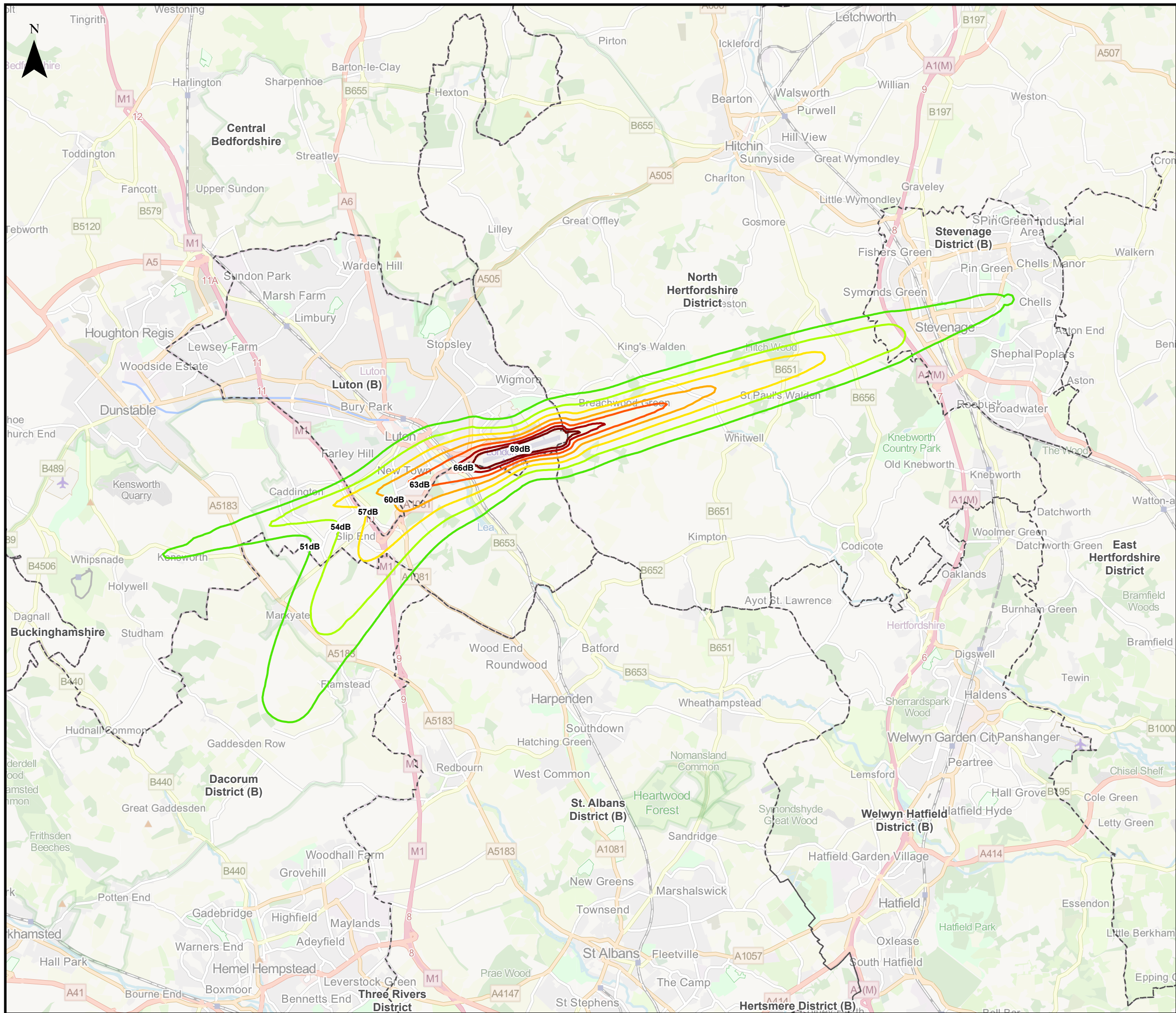
Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:40,000	A3

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

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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2043 Do-Something Next Generation Daytime LAeq,16h)**
- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54dB
- 57dB
- 60dB
- 63dB - Significant Observed Adverse Effect Level (SOAEL)
- 66dB
- 69dB - Unacceptable Adverse Effect Level (UAEL)

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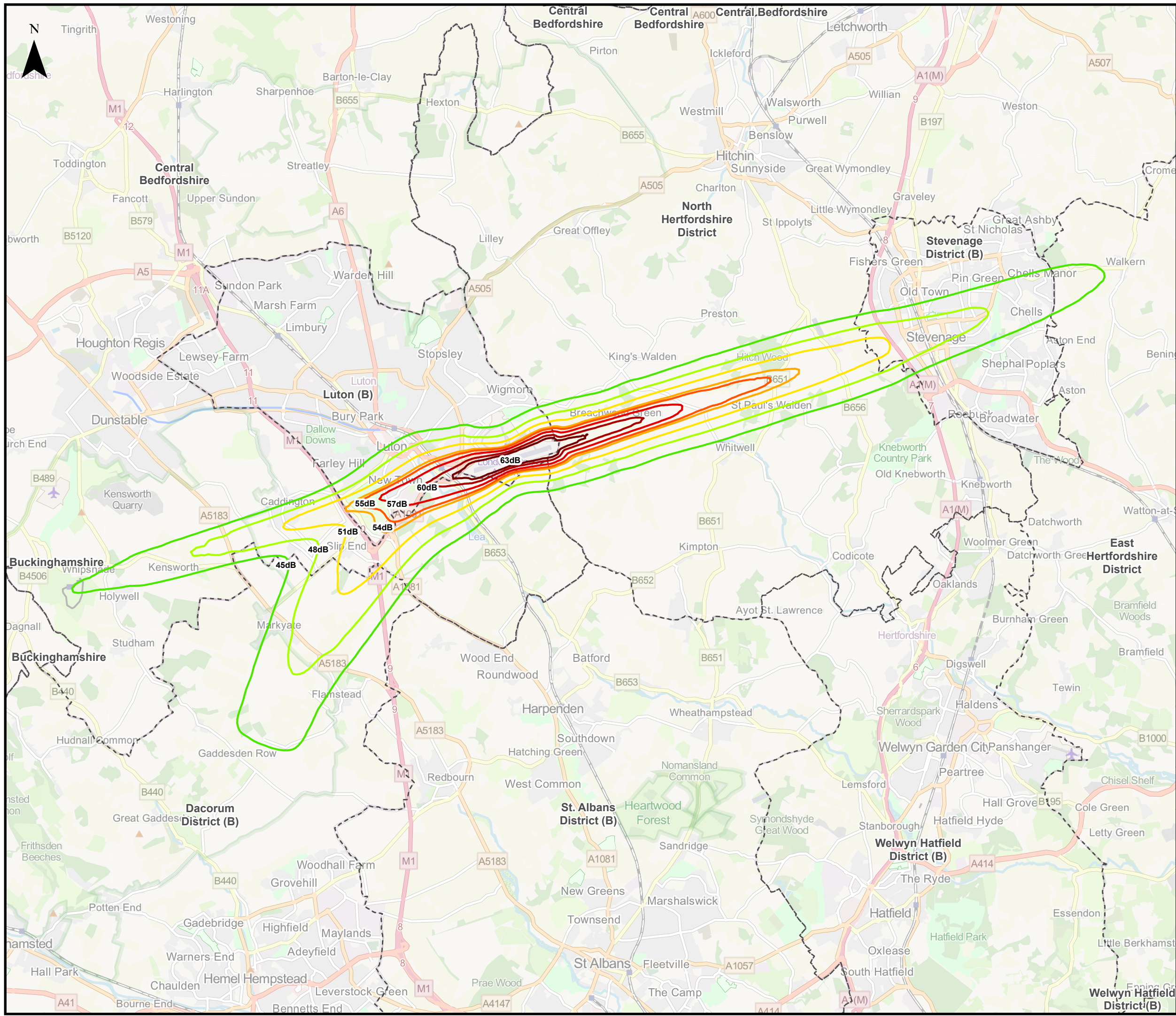
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Drawing Title: **Figure 16.101**  
**Extent of 2043 Do-Something Daytime LAeq,16h Next Generation Air Noise Contours**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CS	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0111	P01
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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2043 Do-Something Next Generation Night-time LAeq,8h)**
- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48dB
- 51dB
- 54dB
- 55dB - Significant Observed Adverse Effect Level (SOAEL)
- 57dB
- 60dB
- 63dB - Unacceptable Adverse Effect Level (UAEI)

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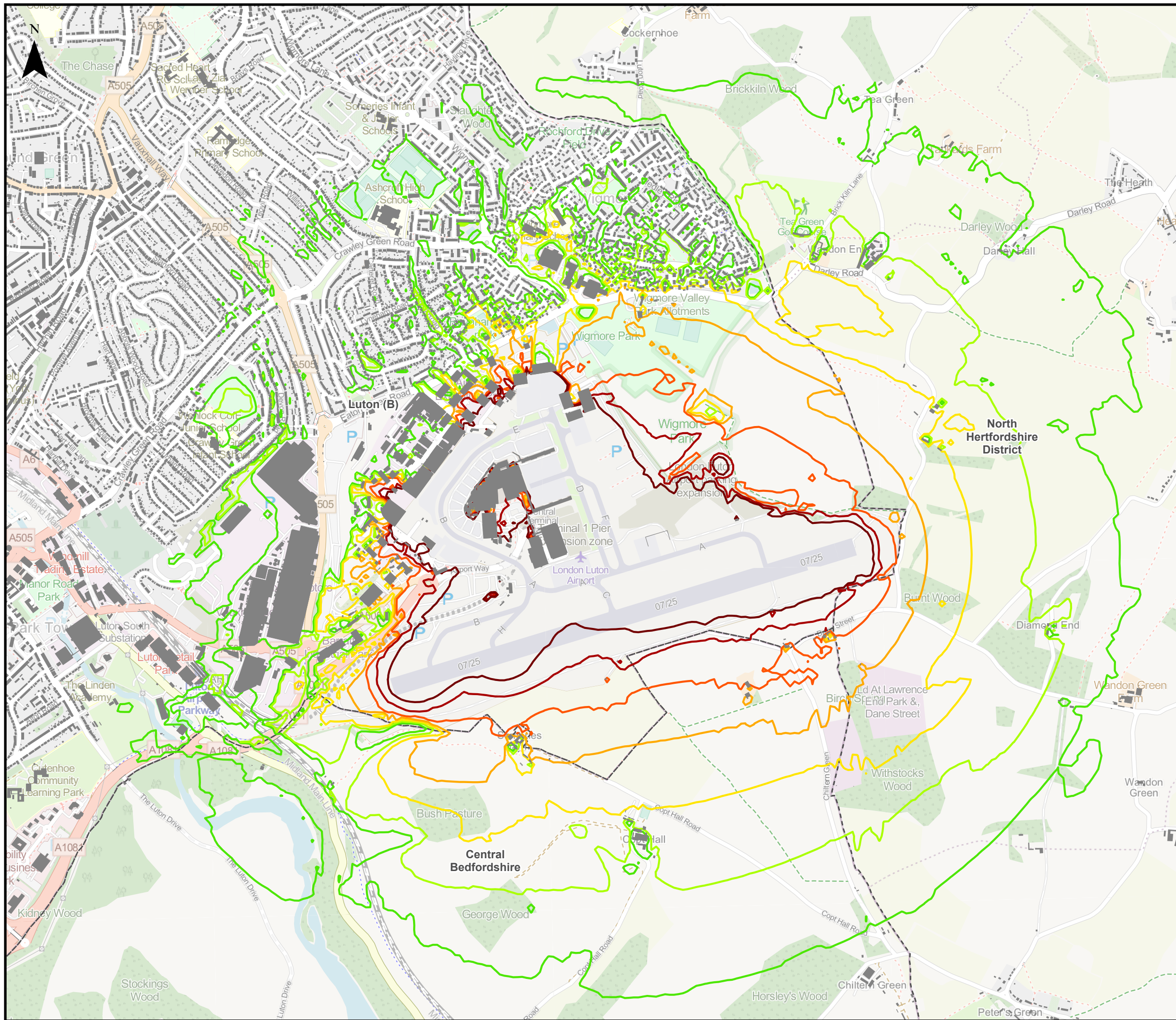
Drawing Title: **Figure 16.102**  
**Extent of 2043 Do-Something Night-time LAeq,8h Next Generation Air Noise Contours**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSh	CS	30/01/23	1:95,000	A3

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

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LLADCO-3C-AEC-00-00-DR-YE-0112	P01

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**Legend**

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2019 Actuals Daytime LAeq,16h)**
- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54 dB
- 57 dB
- 60 dB
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)
- 66 dB
- 69 dB - Unacceptable Adverse Effect Level (UAEL)

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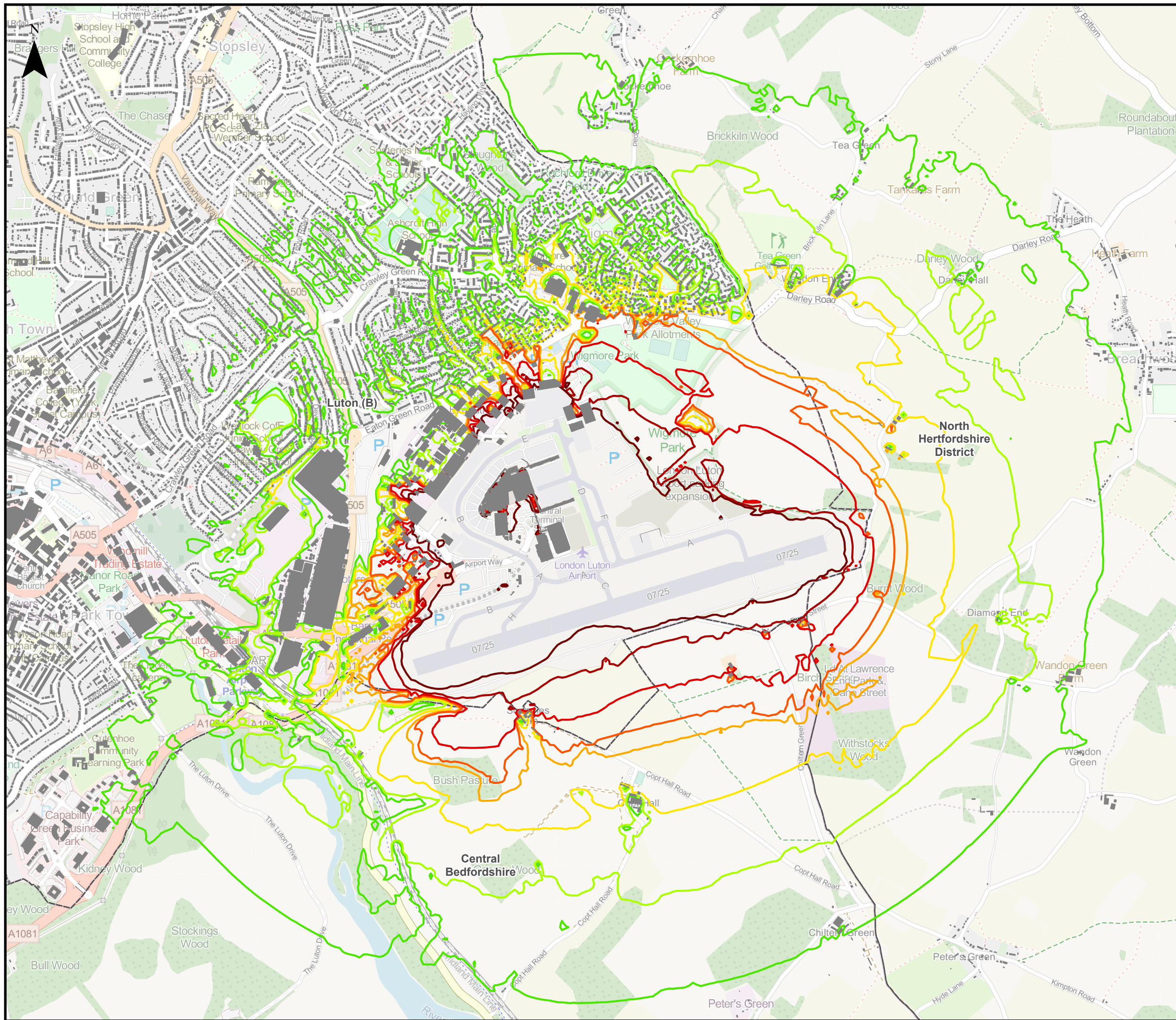
Drawing Title  
**Figure 16.103**  
 Extent of 2019 Actuals Daytime LAeq,16h  
 Ground Noise Contours

Purpose of issue <b>SUITABLE FOR INFORMATION</b>				Suitability S2	
Drawn LP	Checked CSh	Approved CS	Date 31/01/23	Scale 1:16,000	Size A3

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

- Local Authority Boundary
- Building
- Ground Noise Contours in Decibels (dB) (2019 Actuals Night-time LAeq,8h)**
- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
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- 51 dB
- 54 dB
- 55 dB - Significant Observed Adverse Effect Level (SOAEL)
- 57 dB
- 60 dB
- 63 dB - Unacceptable Adverse Effect Level (UAEL)

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Drawing Title: **Figure 16.104**  
**Extent of 2019 Actuals Night-time LAeq,8h Ground Noise Contours**

Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:18,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0114	P01

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