

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 16.81 -  
16.97b**

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

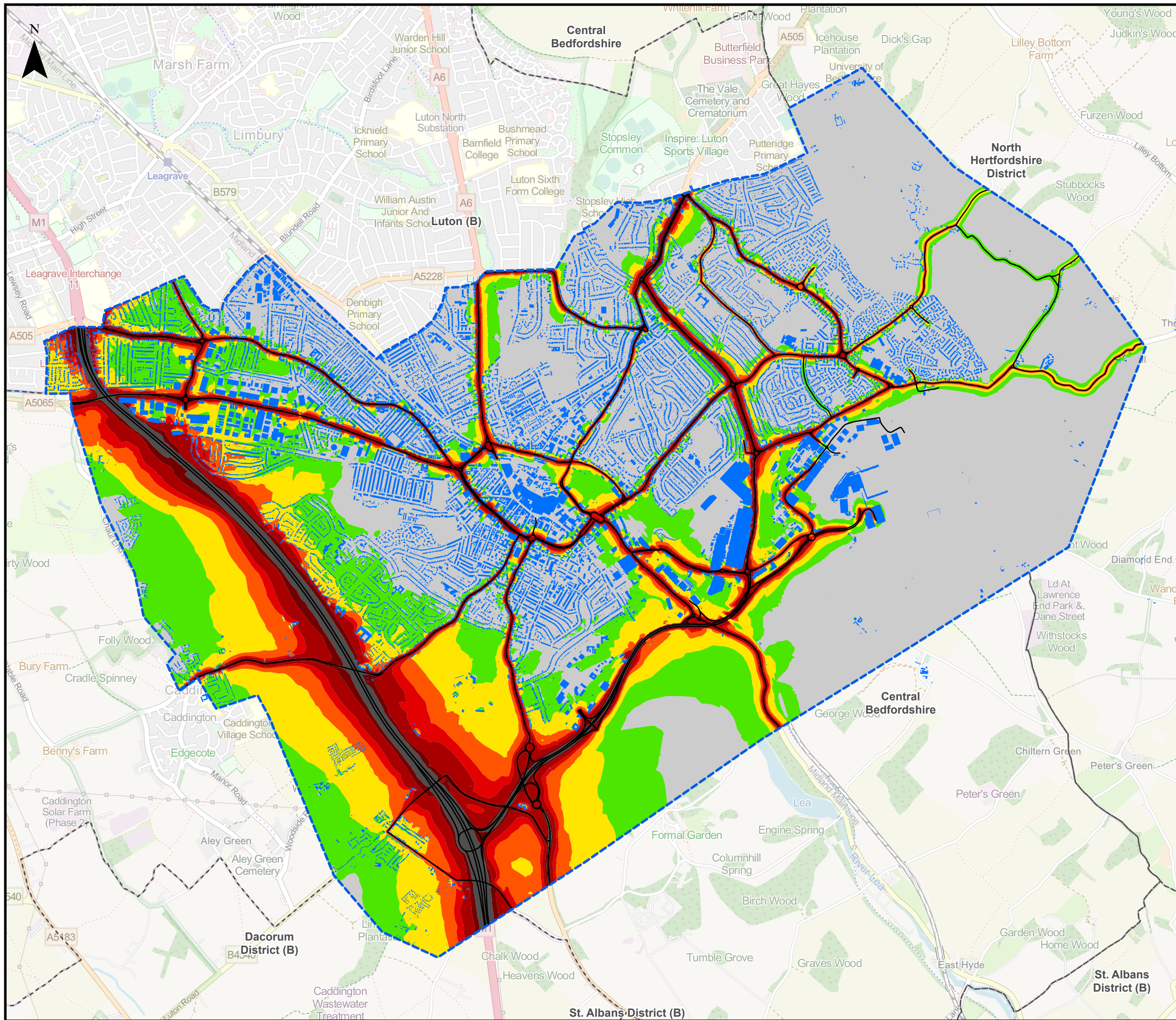
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5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.81 – 16.97b

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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
  - Surface access noise study area
  - Building
  - Road
- Surface Access Noise Contours in Decibels (dB) (2043 Do-Minimum Daytime LAeq,16h at 4m free-field)**
- 14.46,50
  - LOAEL - ≤ 55
  - > 55 - ≤ 60
  - > 60 - ≤ SOAEL
  - > SOAEL - ≤ 65
  - > 65 - ≤ 70
  - > 70 - ≤ UAEL
  - Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 50 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 63 dB  
 Unacceptable Adverse Effect Level (UAEL) = 74 dB

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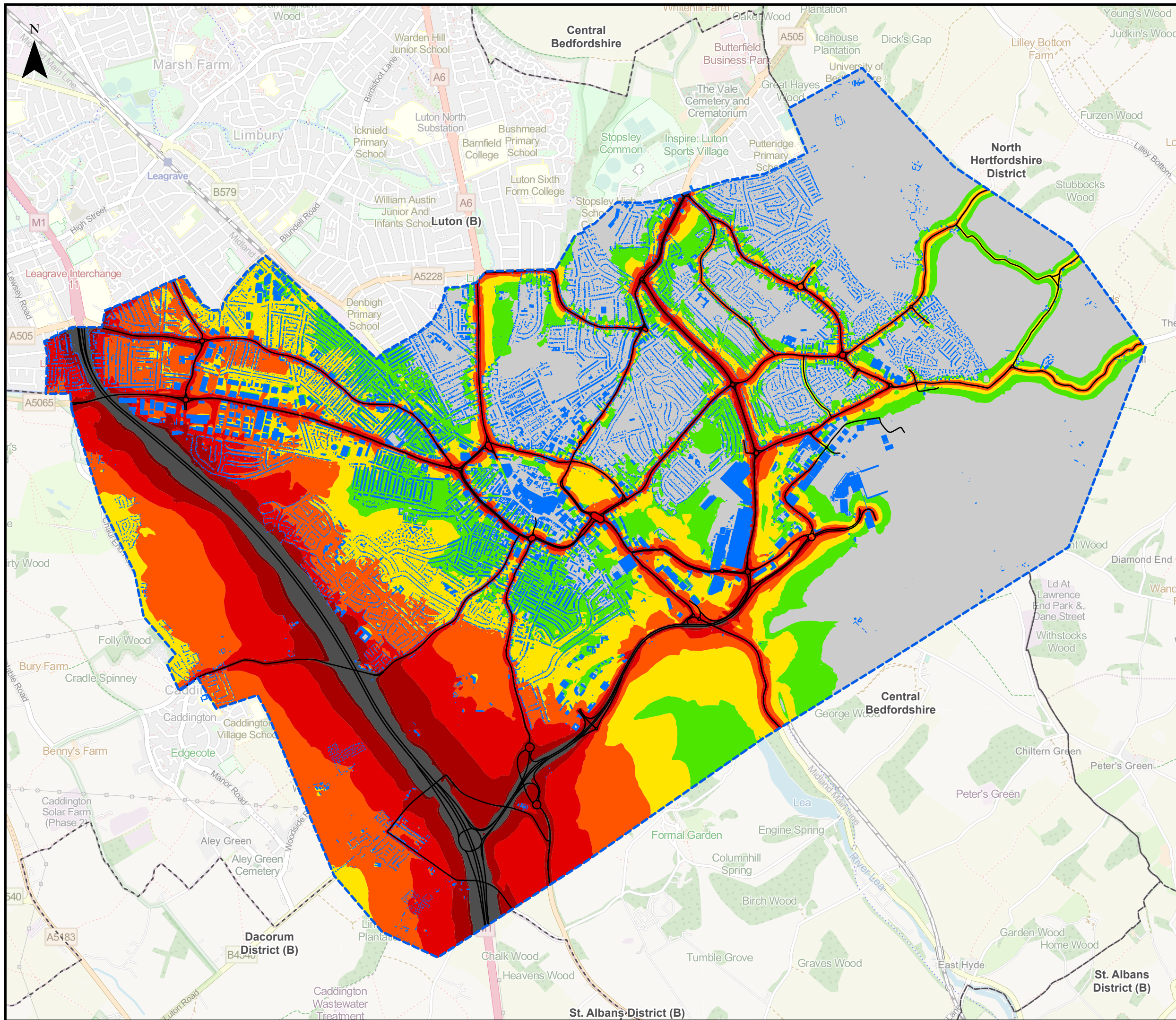
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Drawing Title Figure 16.81  
 Extent of 2043 Do-Minimum Daytime LAeq,16h  
 Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CS	CS	31/01/23	1:30,000	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-0081	P01
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**Legend**

- Local Authority Boundaries
  - Surface access noise study area
  - Building
  - Road
- Surface Access Noise Contours in Decibels (dB) (2043 Do-Minimum Night-time LAeq,8h at 4m free-field)**
- Below LOAEL
  - LOAEL - ≤ 45
  - > 45 - ≤ 50
  - > 50 - ≤ SOAEL
  - > 55 - ≤ 60
  - > 60 - ≤ 65
  - > 65 - ≤ UAEL
  - Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 40 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 55 dB  
 Unacceptable Adverse Effect Level (UAEL) = 66 dB

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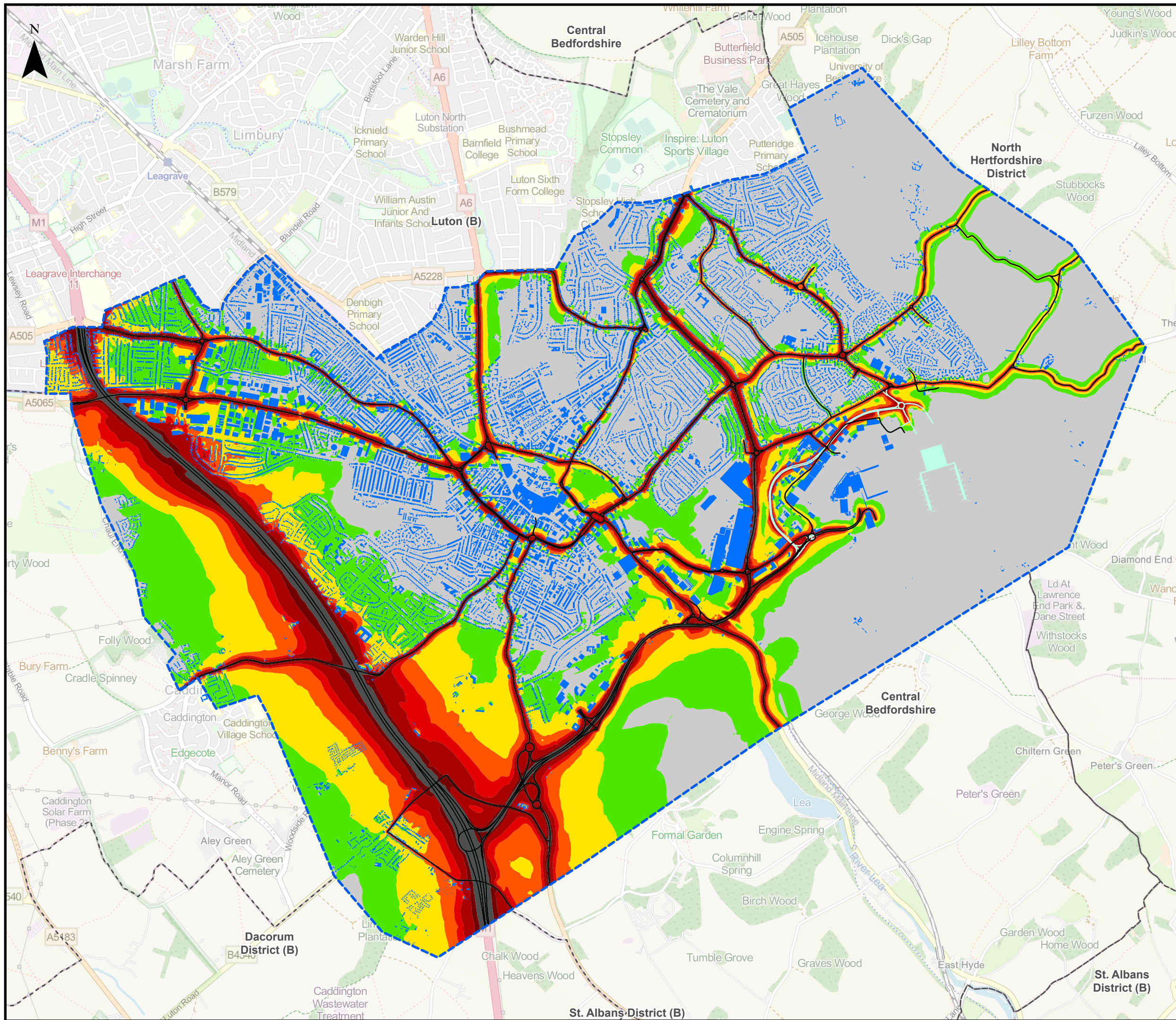
Drawing Title: **Figure 16.82**  
 Extent of 2043 Do-Minimum Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:30,000	A3

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

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**Legend**

- Local Authority Boundaries
- Surface access noise study area
- Building
- Proposed Terminal - Assessment Phase 2b
- Road
- Airport Access Road

**Surface Access Noise Contours in Decibels (dB) (2043 Do-Something Daytime LAeq,16h at 4m free-field)**

- 14.58,50
- LOAEL - ≤ 55
- > 55 - ≤ 60
- > 60 - ≤ SOAEL
- > SOAEL - ≤ 65
- > 65 - ≤ 70
- > 70 - ≤ UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 50 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 63 dB  
 Unacceptable Adverse Effect Level (UAEL) = 74 dB

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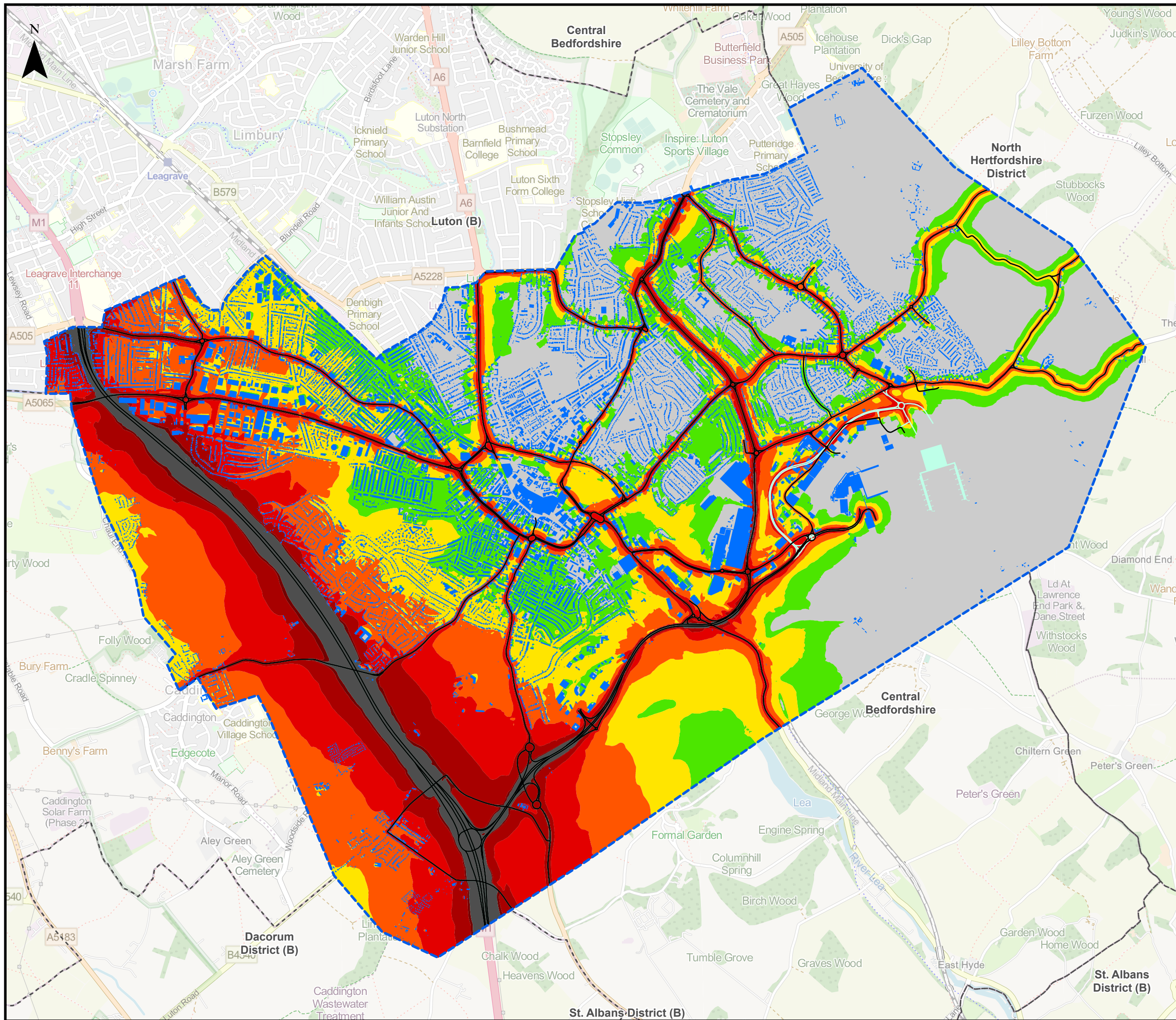
Drawing Title: **Figure 16.83**  
 Extent of 2043 Do-Minimum Daytime LAeq,16h Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
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- Legend**
- Local Authority Boundaries
  - Surface access noise study area
  - Building
  - Proposed Terminal - Assessment Phase 2b
  - Road
  - Airport Access Road

**Surface Access Noise Contours in Decibels (dB) (2023 Do-Something Night-time LAeq,8h at 4m free-field)**

- 10.15,40
- LOAEL - ≤ 45
- > 45 - ≤ 50
- > 50 - ≤ SOAEL
- > 55 - ≤ 60
- > 60 - ≤ 65
- > 65 - ≤ UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 40 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 55 dB  
 Unacceptable Adverse Effect Level (UAEL) = 66 dB

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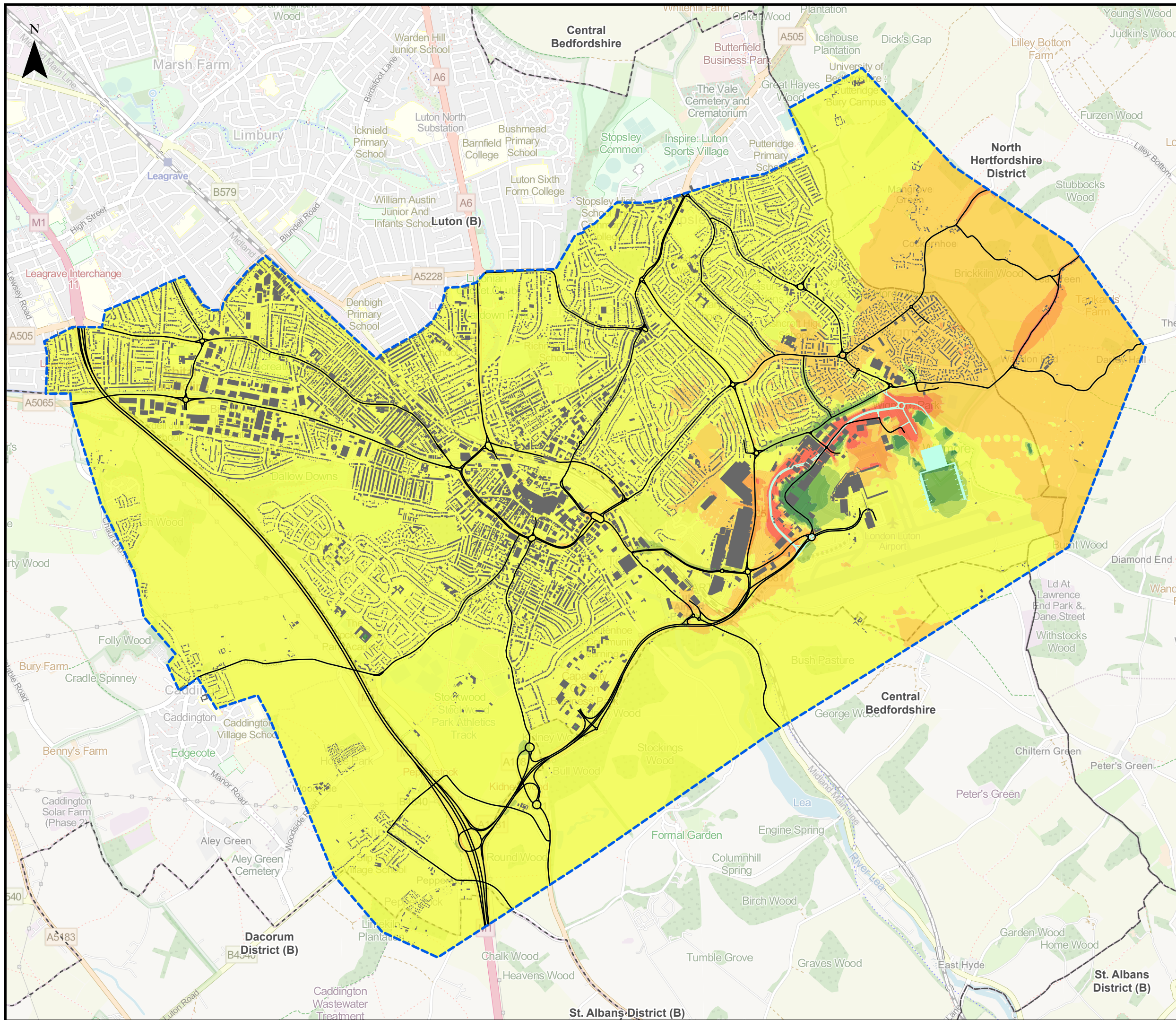
Drawing Title: **Figure 16.84**  
 Extent of 2023 Do-Something Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
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**Legend**

- Local Authority Boundaries
- Surface access noise study area
- Building
- Proposed Terminal - Assessment Phase 2b
- Road
- Airport Access Road

**Change in 2043 Do-Something and Do-Minimum Daytime LAeq,16h Surface Access Noise Contours in Decibels (dB)**

**Noise Decrease**

- 5.0 dB or more
- 3.0 - 4.9 dB
- 1.0 - 2.9 dB
- 0.1 - 0.9 dB

**Noise Increase**

- 0.1 - 0.9 dB
- 1.0 - 2.9 dB
- 3.0 - 4.9 dB
- 5.0 dB or more

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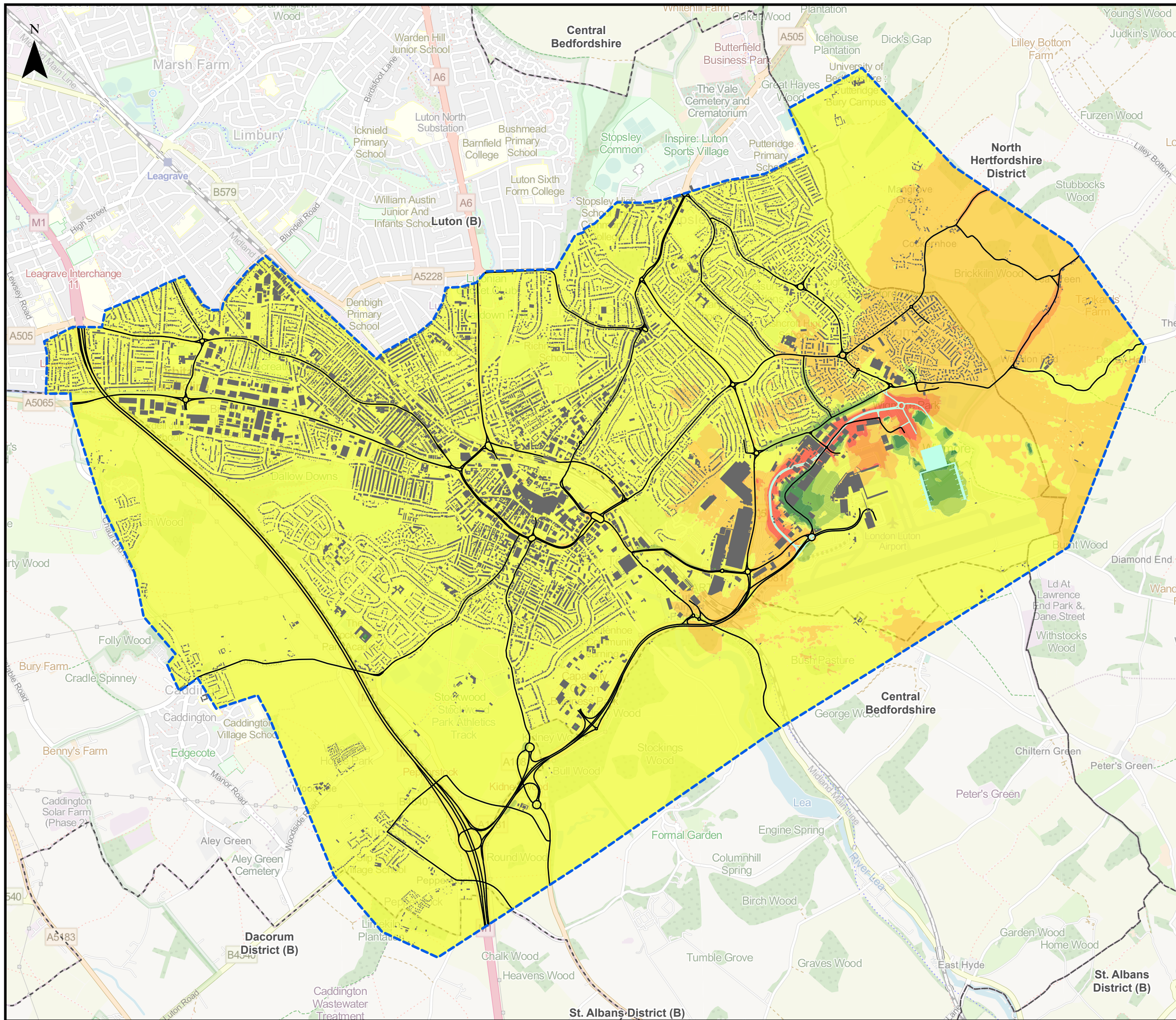
Drawing Title: **Figure 16.85**  
**Change in 2043 Do-Something - Do-Minimum Daytime LAeq,16h Surface Access Noise Contours**

Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>		
Drawn	Checked	Approved	Date	Scale	Size	
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- Legend**
- Local Authority Boundaries
  - Surface access noise study area
  - Building
  - Proposed Terminal - Assessment Phase 2b
  - Road
  - Airport Access Road

**Change in 2043 Do-Something and Do-Minimum Night-time LAeq,8h Surface Access Noise Contours in Decibels (dB)**

- Noise Decrease**
- 5.0 dB or more
  - 3.0 - 4.9 dB
  - 1.0 - 2.9 dB
  - 0.1 - 0.9 dB
- Noise Increase**
- 0.1 - 0.9 dB
  - 1.0 - 2.9 dB
  - 3.0 - 4.9 dB
  - 5.0 dB or more

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Drawing Title: **Figure 16.86**  
**Change in 2043 Do-Something - Do-Minimum Night-time LAeq,8h Surface Access Noise Contours**

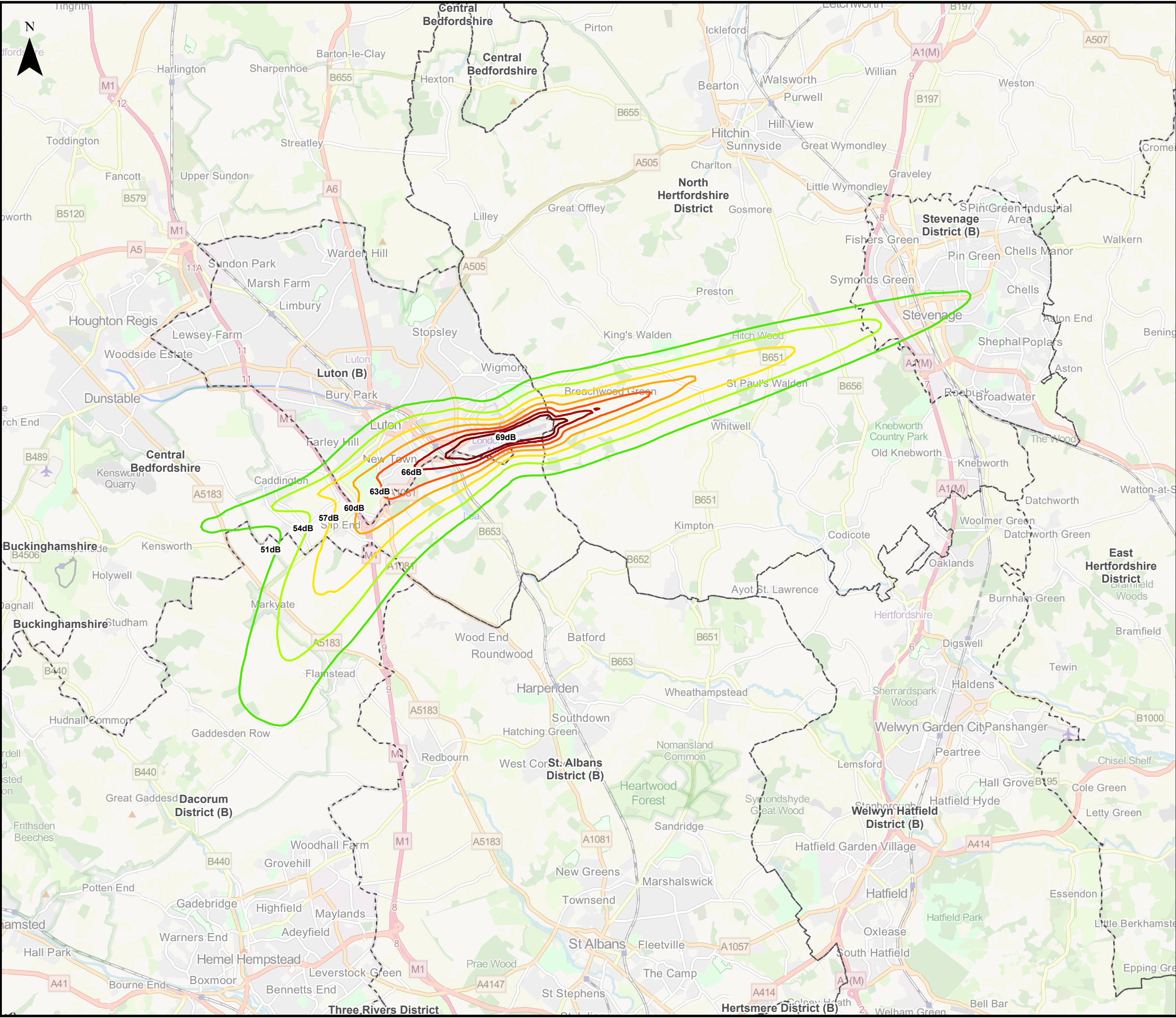
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>		
Drawn	Checked	Approved	Date	Scale	Size	
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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2019 Consented 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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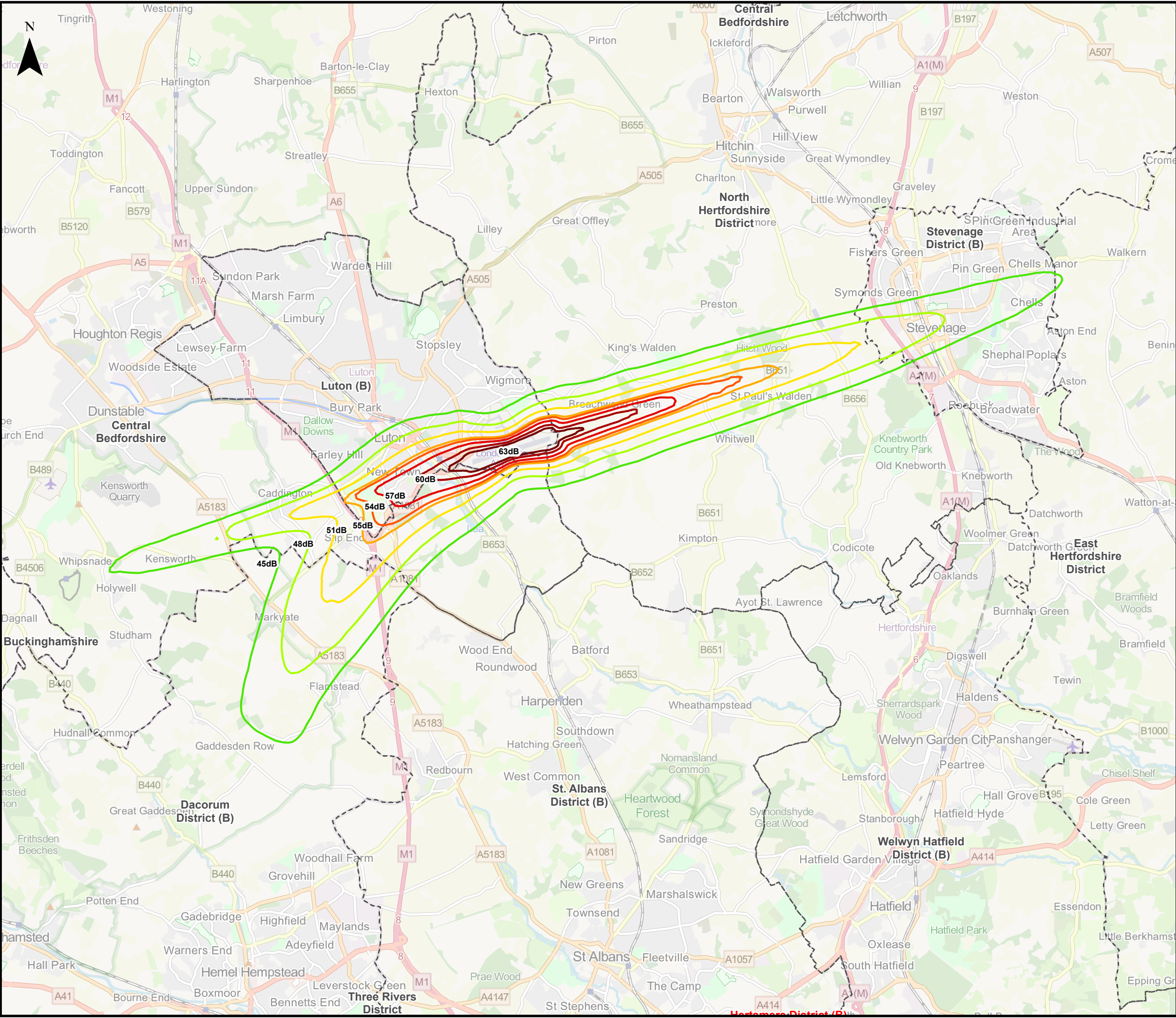
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Drawing Title: **Figure 16.87**  
 Extent of 2019 Consented Daytime LAeq,16h Air Noise Contours

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

DCO Application Ref.	APFP Regulation	DCO Document Ref.
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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2019 Consented Night-time L<sub>Aeq,8h</sub>)**
- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48dB
- 51dB
- 54dB
- 55dB - Significant Observed Adverse Effect Level (SOAEL)
- 57dB
- 60dB
- 63dB - Unacceptable Adverse Effect Level (UAEL)

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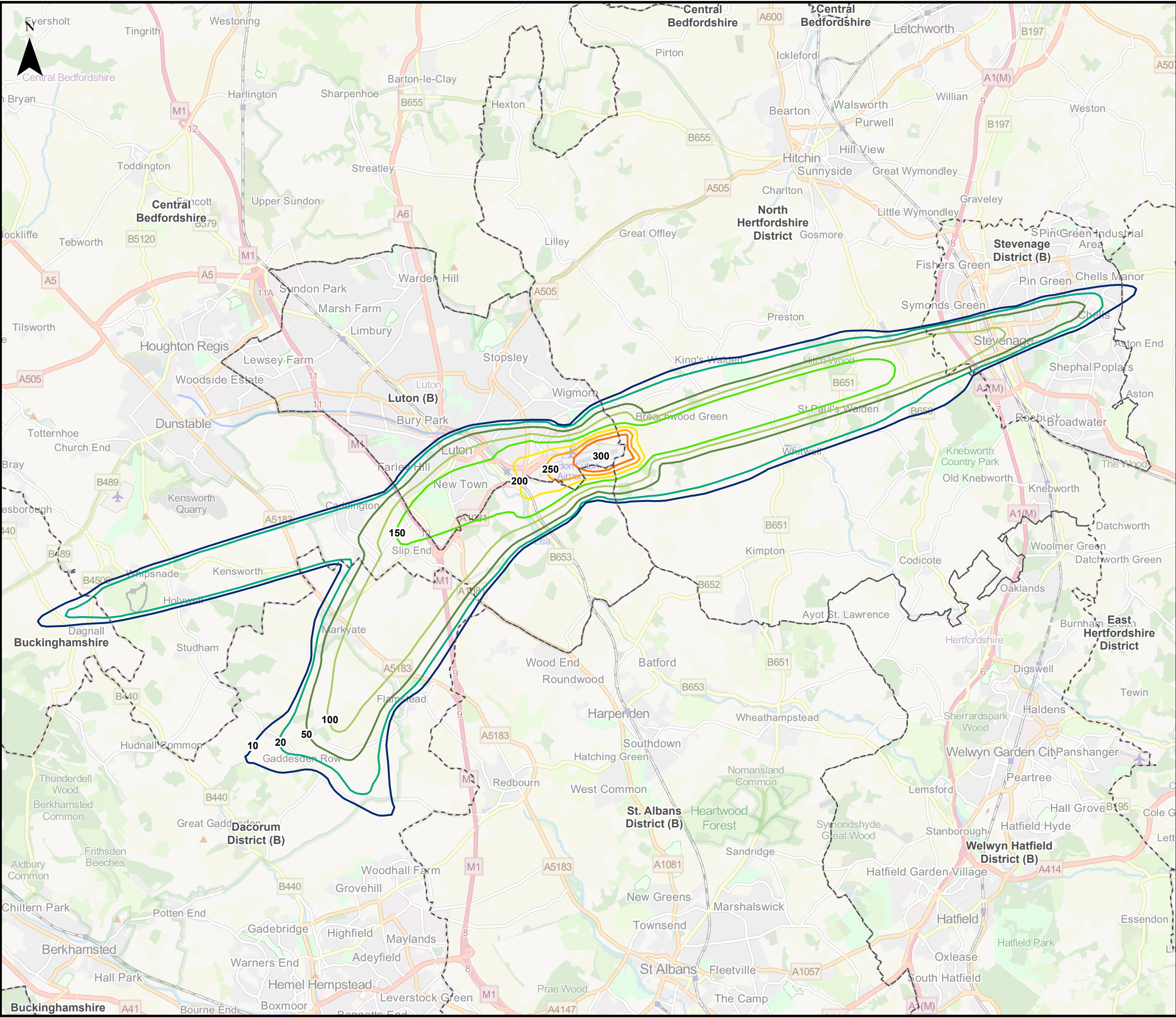
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Drawing Title: **Figure 16.88**  
**Extent of 2019 Consented Night-time L<sub>Aeq,8h</sub> Air Noise Contours**

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

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**Legend**

- Local Authority Boundaries
- Air Noise Contours (2019 Consented Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))**
- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300

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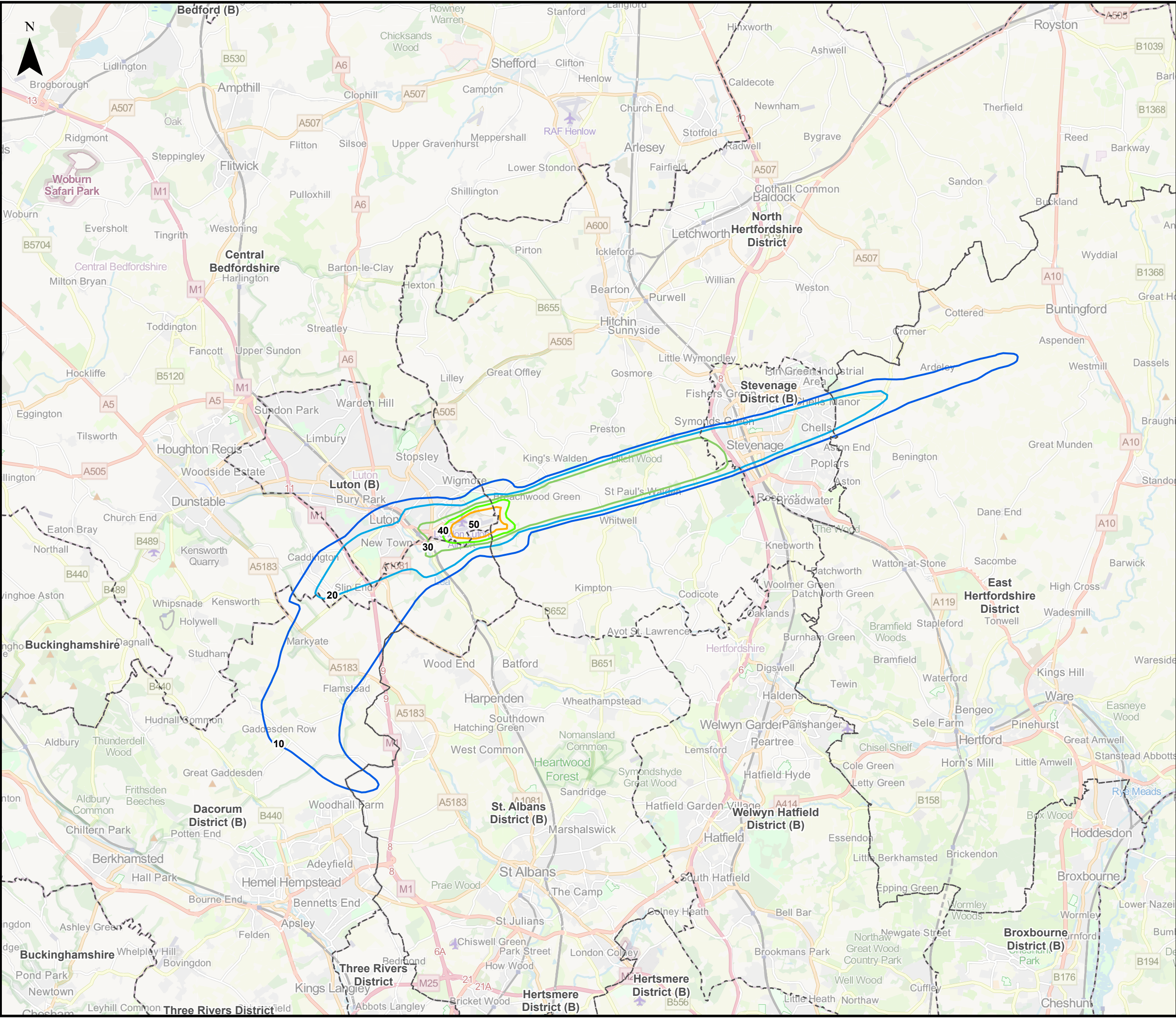
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Drawing Title: **Figure 16.89**  
Extent of 2019 Consented Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Air Noise Contours

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

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**Legend**

- Local Authority Boundaries
- Air Noise Contours (2019 Consented Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**
  - 10
  - 20
  - 30
  - 40
  - 50

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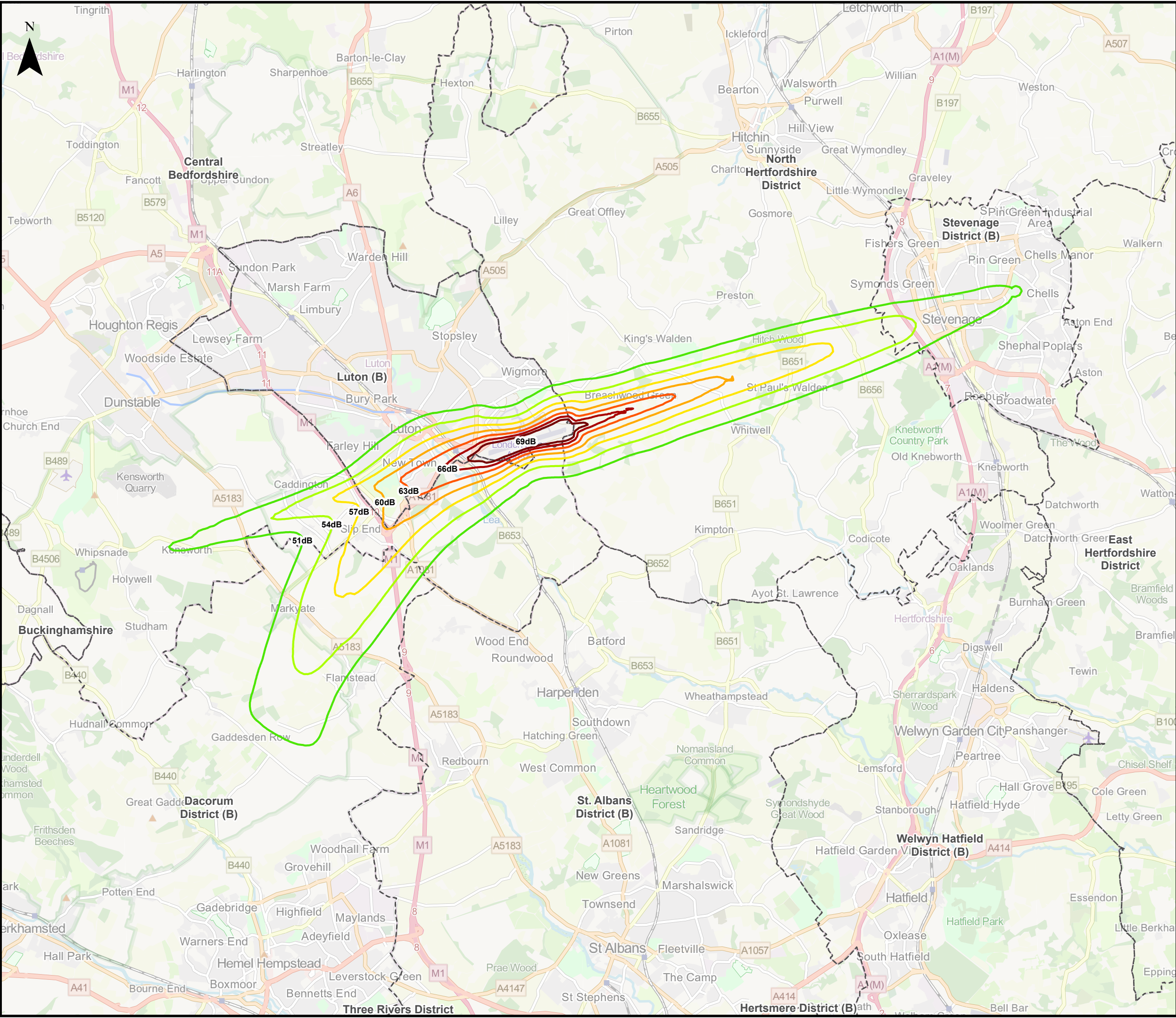
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Drawing Title: Figure 16.90  
 Extent of 2019 Consented Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Air Noise Contours

Purpose of issue	SUITABLE FOR INFORMATION	Suitability	S2
Drawn	Checked	Approved	Date
MAB	CSh	CS	31/01/23
Scale	1:140,000	Size	A3

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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 Do-Something Daytime Faster Growth 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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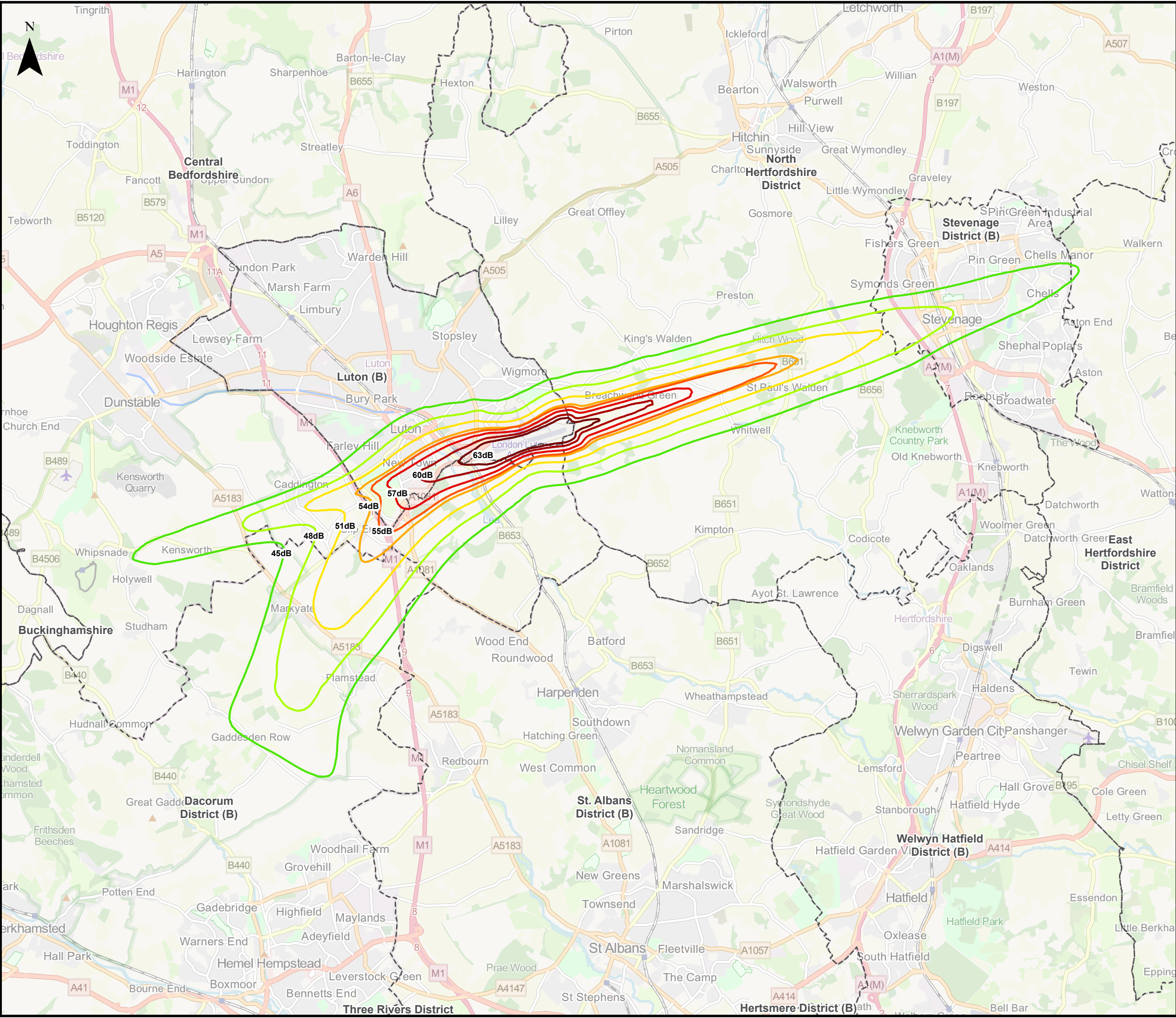
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Drawing Title: **Figure 16.91**  
 Extent of 2027 Do-Something Daytime LAeq,16h Faster Growth Air Noise Contours

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.
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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 Do-Something Night-time Faster Growth 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 (UAEL)

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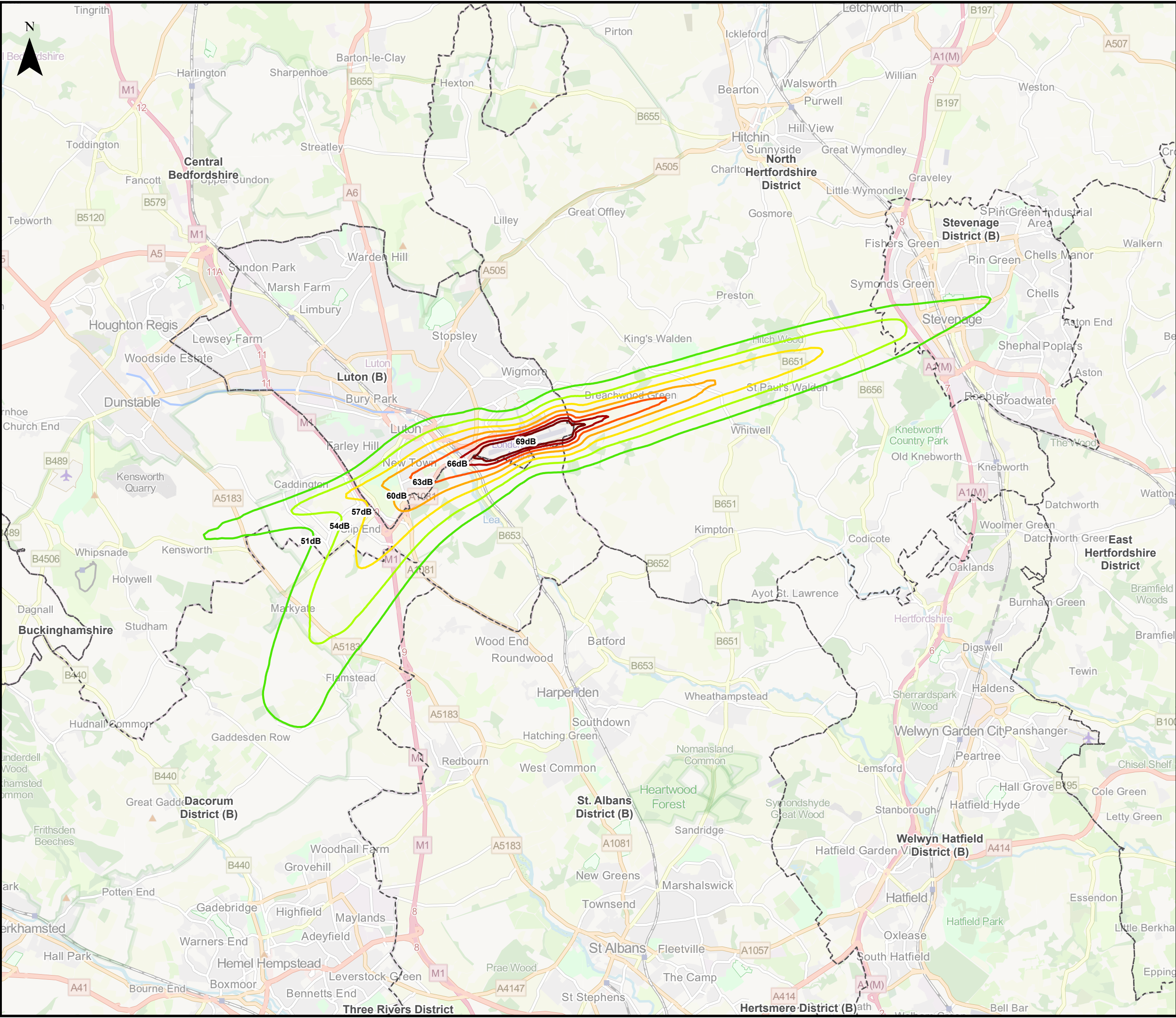
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Drawing Title: **Figure 16.92**  
Extent of 2027 Do-Something Night-time LAeq,8h Faster Growth Air Noise Contours

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-0092	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type - Discp. - Number	



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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2030 Do-Something Daytime Slower Growth 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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First Issue	LP	CS	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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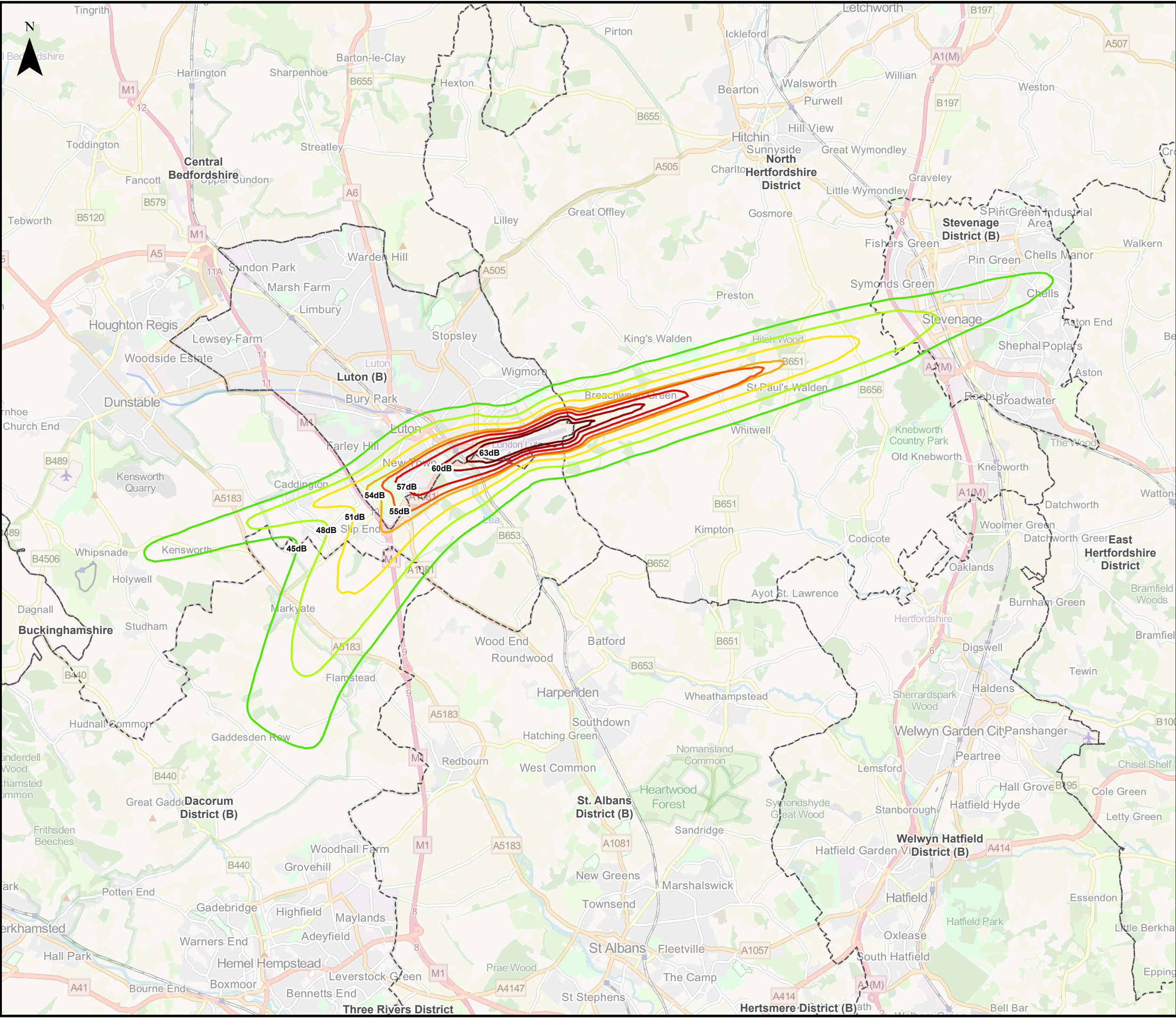
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Drawing Title  
**Figure 16.93  
 Extent of 2030 Do-Something Daytime LAeq,16h Slower Growth Noise Contours**

Purpose of issue <b>SUITABLE FOR INFORMATION</b>				Suitability S2	
Drawn LP	Checked CS	Approved CS	Date 31/01/23	Scale 1:95,000	Size 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-AEC-00-00-DR-YE-0093	Revision P01
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**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2030 Do-Something Night-time Slower Growth 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 (UAEL)

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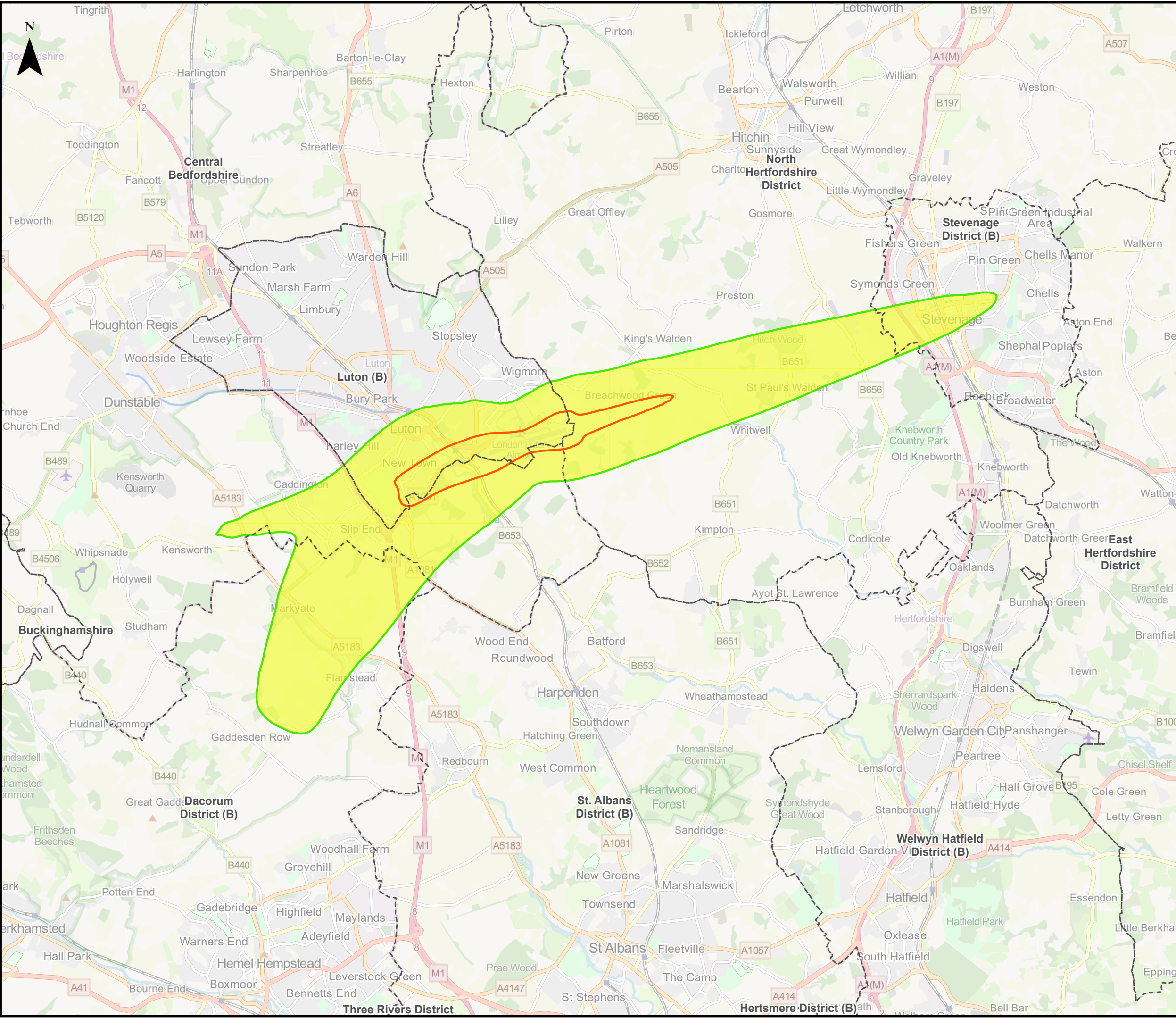
Drawing Title: **Figure 16.94**  
 Extent of 2030 Do-Something Night-time LAeq,8h Slower Growth Noise Contours

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-0094	P01
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**Legend**

- Local Authority Boundaries

**Change in 2019 Actuals v Consented 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) (2019 Actuals Daytime LAeq,16h)**

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

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First Issue	MAB	CSH	CS	31/01/23	P01
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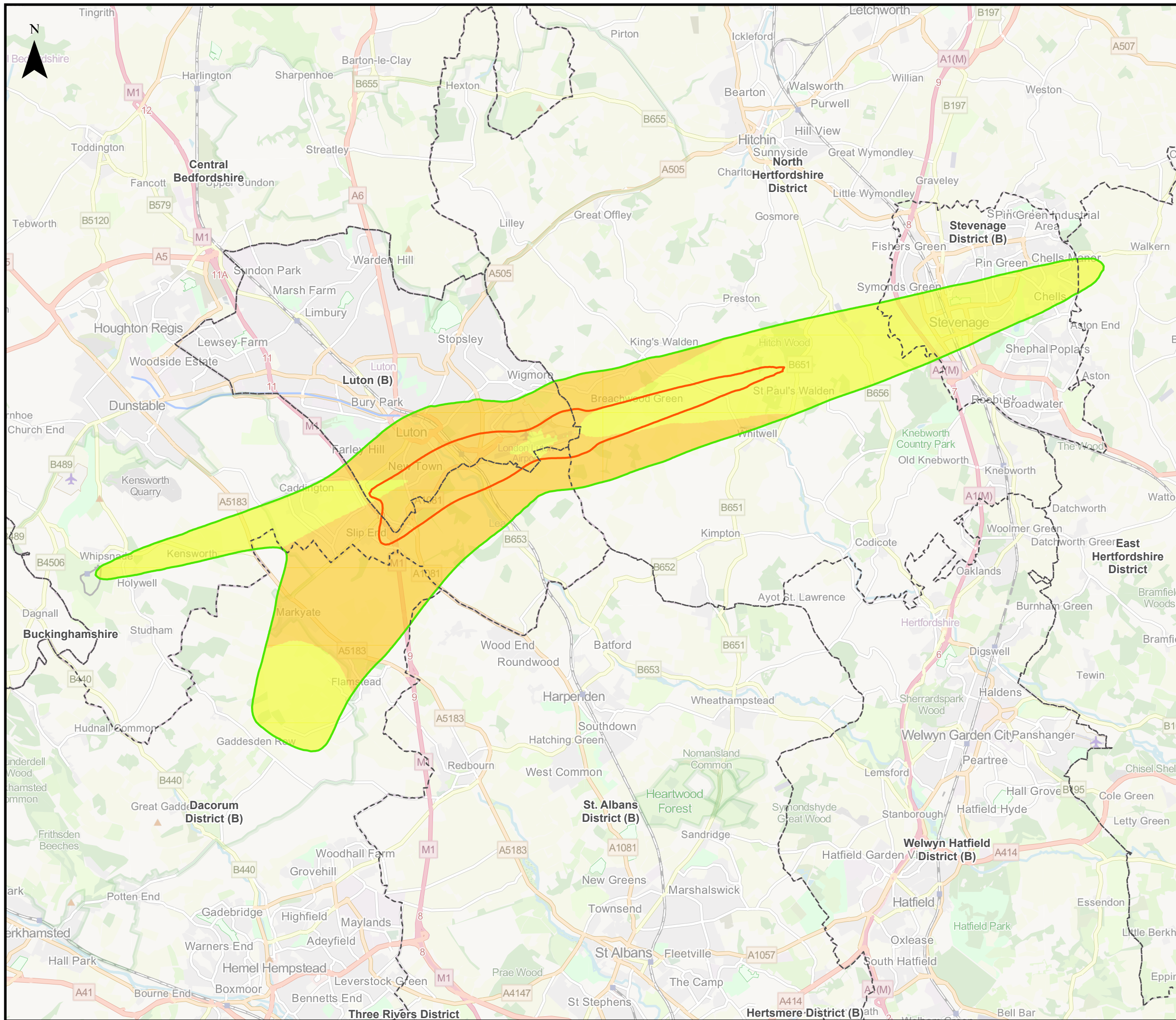
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Drawing Title: **Figure 16.95**  
**Difference in Daytime LAeq,16h 2019 Actuals Baseline v 2019 Consented Baseline Air Noise Contours**

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-0095	P01
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**Legend**

- Local Authority Boundaries

**Change in 2019 Actuals v Consented 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) (2019 Actuals Night-time LAeq,8h)**

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

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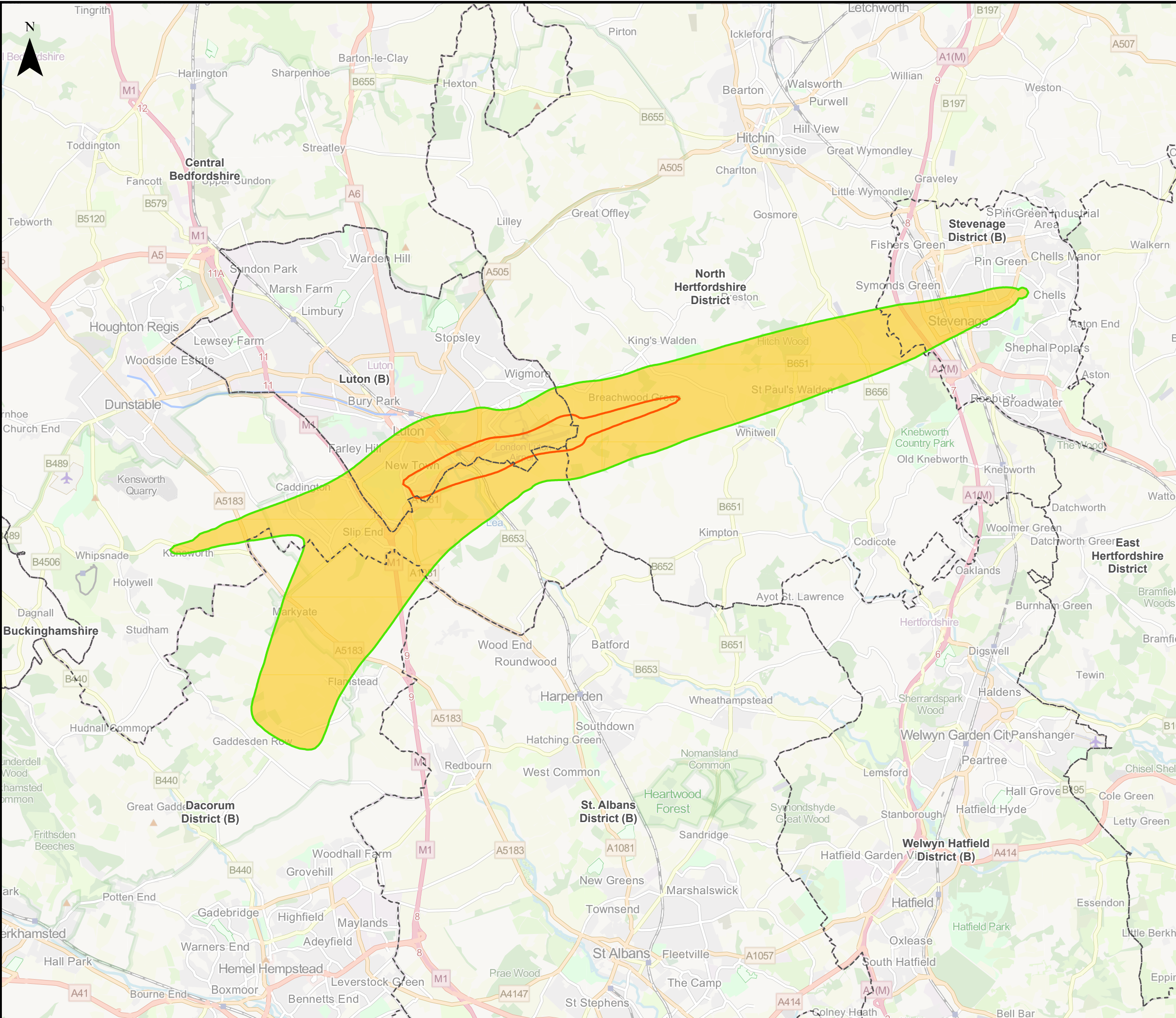
**London Luton Airport Expansion Development Consent Order**

Drawing Title: Figure 16.96  
 Difference in Night-time LAeq,8h  
 2019 Actuals Baseline v 2019 Consented Baseline  
 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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0096	P01
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**Legend**

- Local Authority Boundaries

**Change in 2027 Do-Something Faster 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) (2027 Do-something Faster Growth Daytime LAeq,16h)**

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

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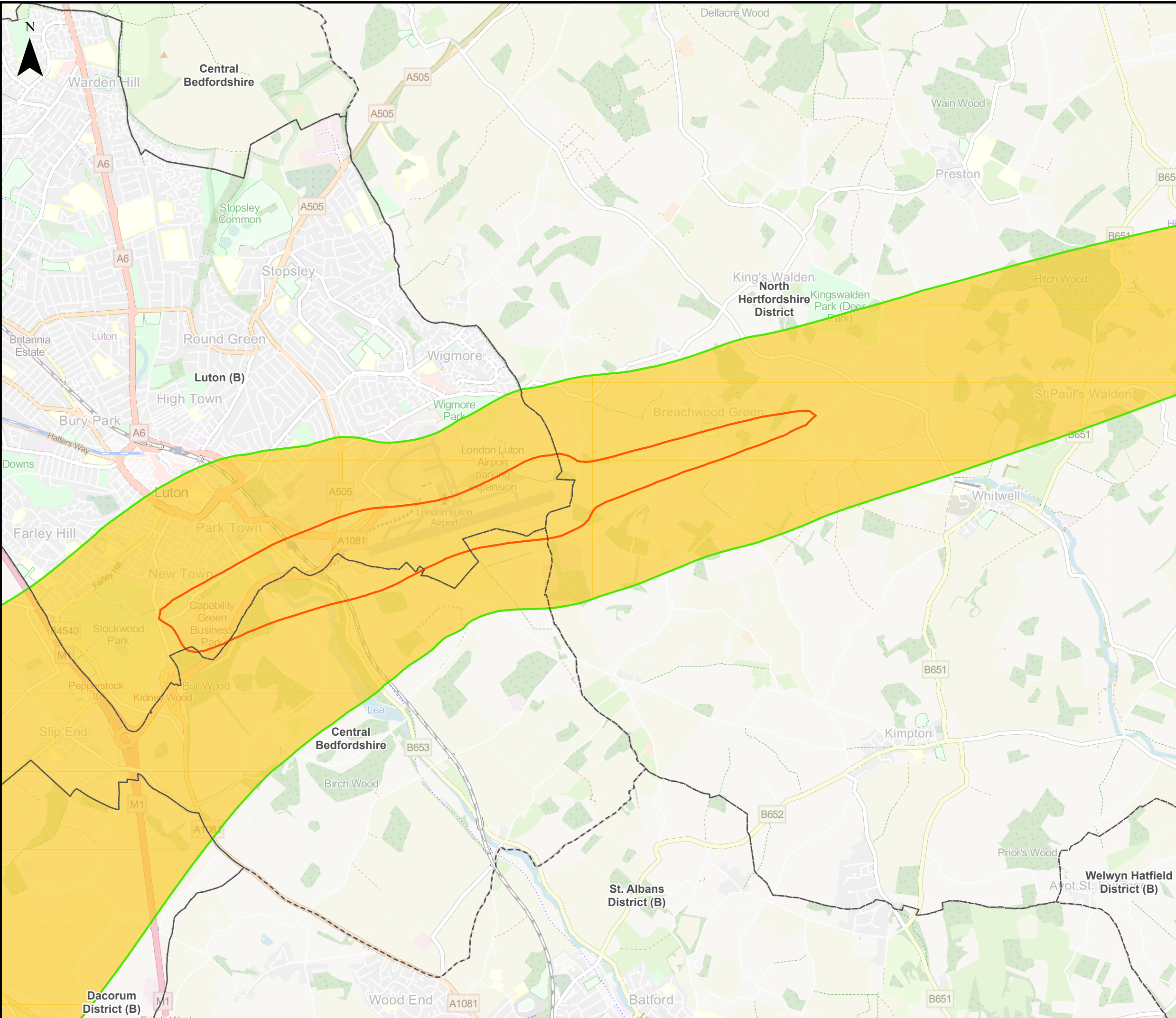
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Drawing Title **Figure 16.97a**  
**Change in 2027 Do-Something Faster Growth - Do-Minimum Daytime LAeq,16h Air Noise Contours**

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-0103	P01
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**Legend**

- Local Authority Boundaries

**Change in 2027 Do-Something Faster 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) (2027 Do-something Faster Growth Daytime LAeq,16h)**

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

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Drawing Title					
Figure 16.97b					
Change in 2027 Do-Something Faster 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-0104					P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number					