



5. Noise: Figures

Prepared for the
Airports Commission

November 2014

Local Noise Assessment Figures

Gatwick Airport Second Runway

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Heathrow Airport Northwest Runway

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Heathrow Airport Extended Northern Runway

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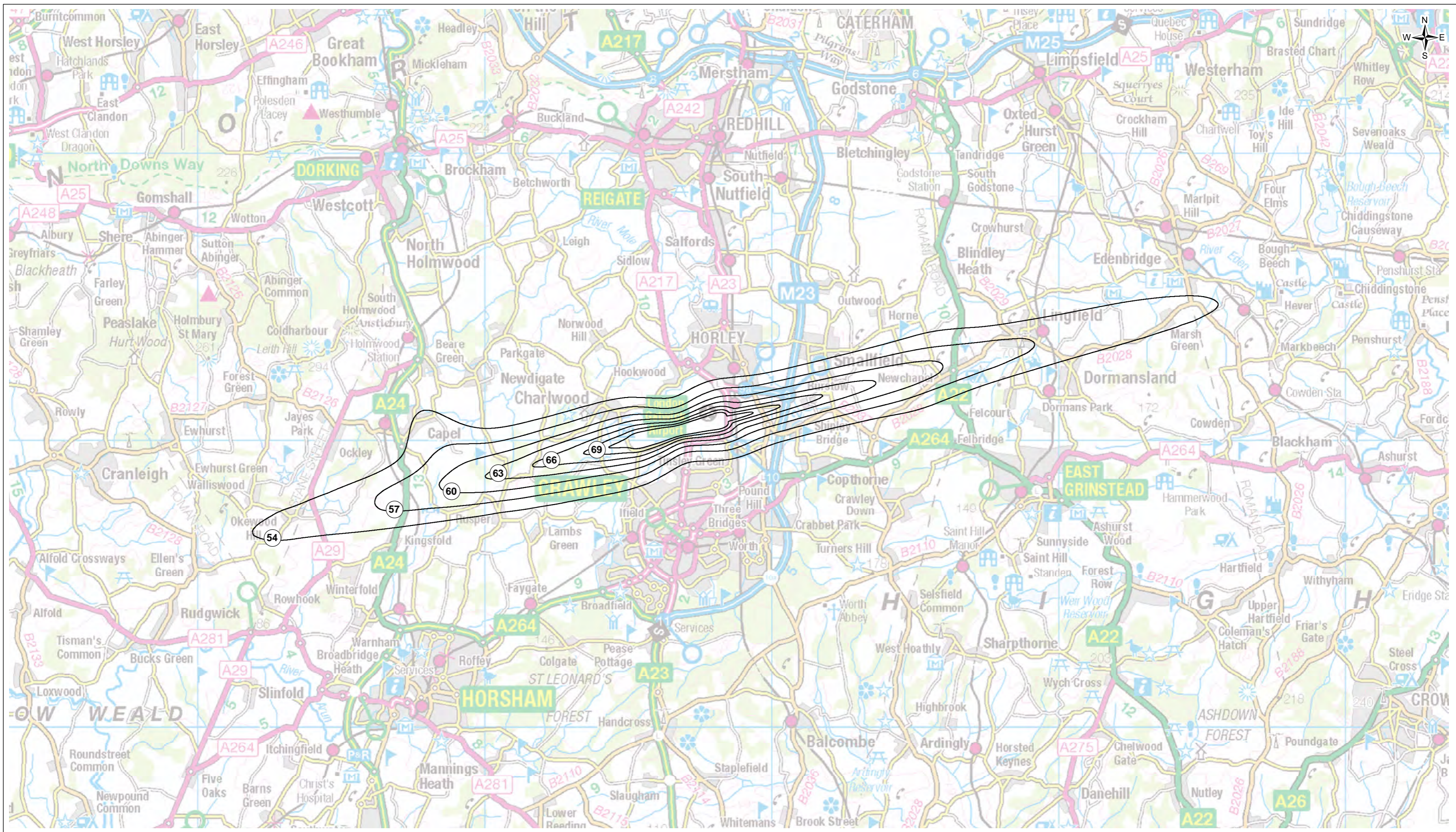
Local Noise Assessment Figures (Produced by Bikerdike Allen Partners)

- LNA-A1 – Gatwick Airport 2030 Do-Minimum Vs Gatwick2R Ground Noise Contours, 57dB LAeq,16hr
- LNA-A2 - Heathrow Airport 2030 Do-Minimum Vs Heathrow NWR Ground Noise Contours, 57dB Aeq,16h
- LNA-A3 – Heathrow Airport 2030 Do-Minimum Vs Heathrow EWR Ground Noise Contours, 57dB Aeq,16h

National Noise Assessment Figures (Produced by Bikerdike Allen Partners)

- National Report Fig B01 Aberdeen 2030 57dB LAeq16h
- National Report Fig B02 Edinburgh 2030 57dB LAeq16h
- National Report Fig B03 Glasgow 2030 57dB LAeq16h
- National Report Fig B04 Birmingham 2030 57dB LAeq16h
- National Report Fig B05 Bristol 2030 57dB LAeq16h
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- National Report Fig B11 London Stansted 2030 57dB LAeq16h
- National Report Fig B12 Gatwick 2030 57dB LAeq16h
- National Report Fig B13 Heathrow 2030 57dB LAeq16h

Part A Local Noise Assessment Figures



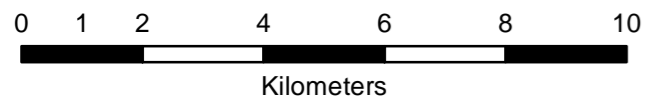
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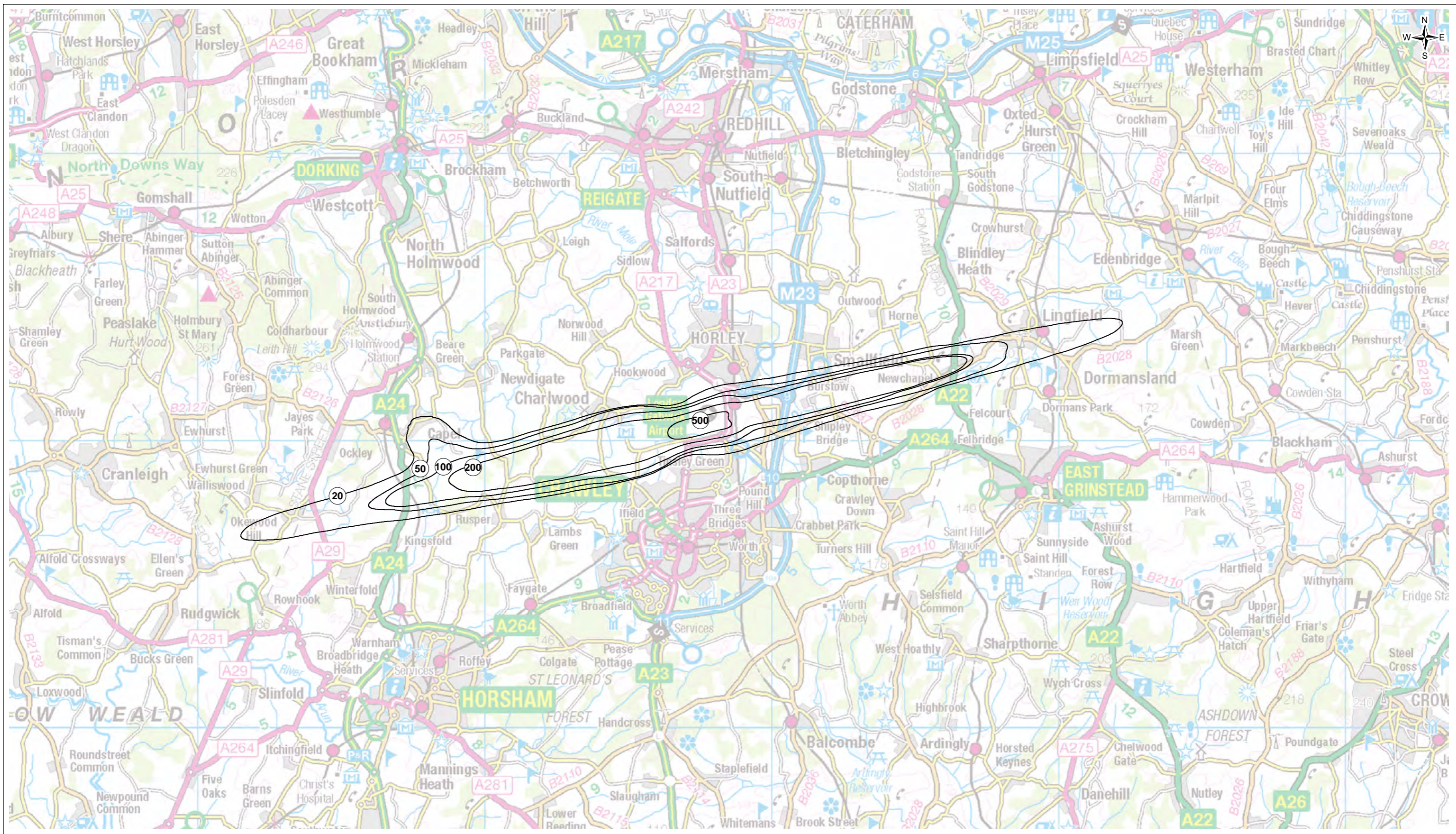
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1000	
Drawing Title		Gatwick Airport 2013 Current Scenario L _{Aeq,16h} Contours				JACOBS	
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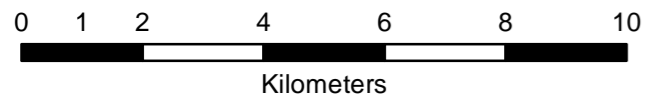
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— N70



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LOCAL NOISE ASSESSMENT**

FIGURE LNA1001

Drawing Title
**Gatwick Airport
2013 Current Scenario
N70 Contours**



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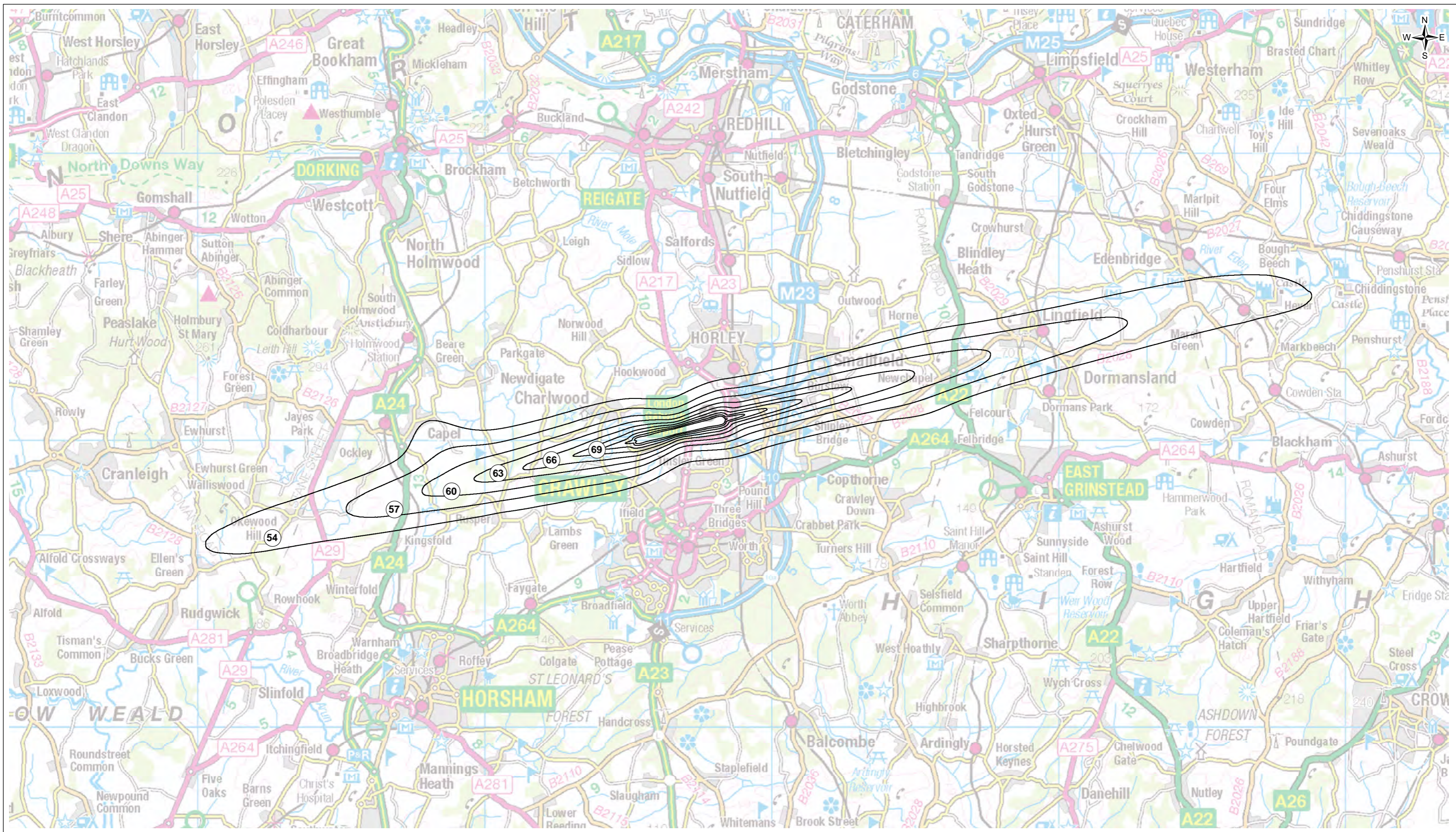
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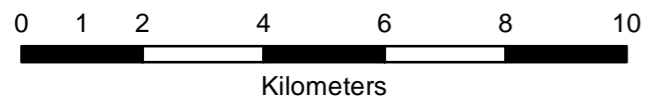
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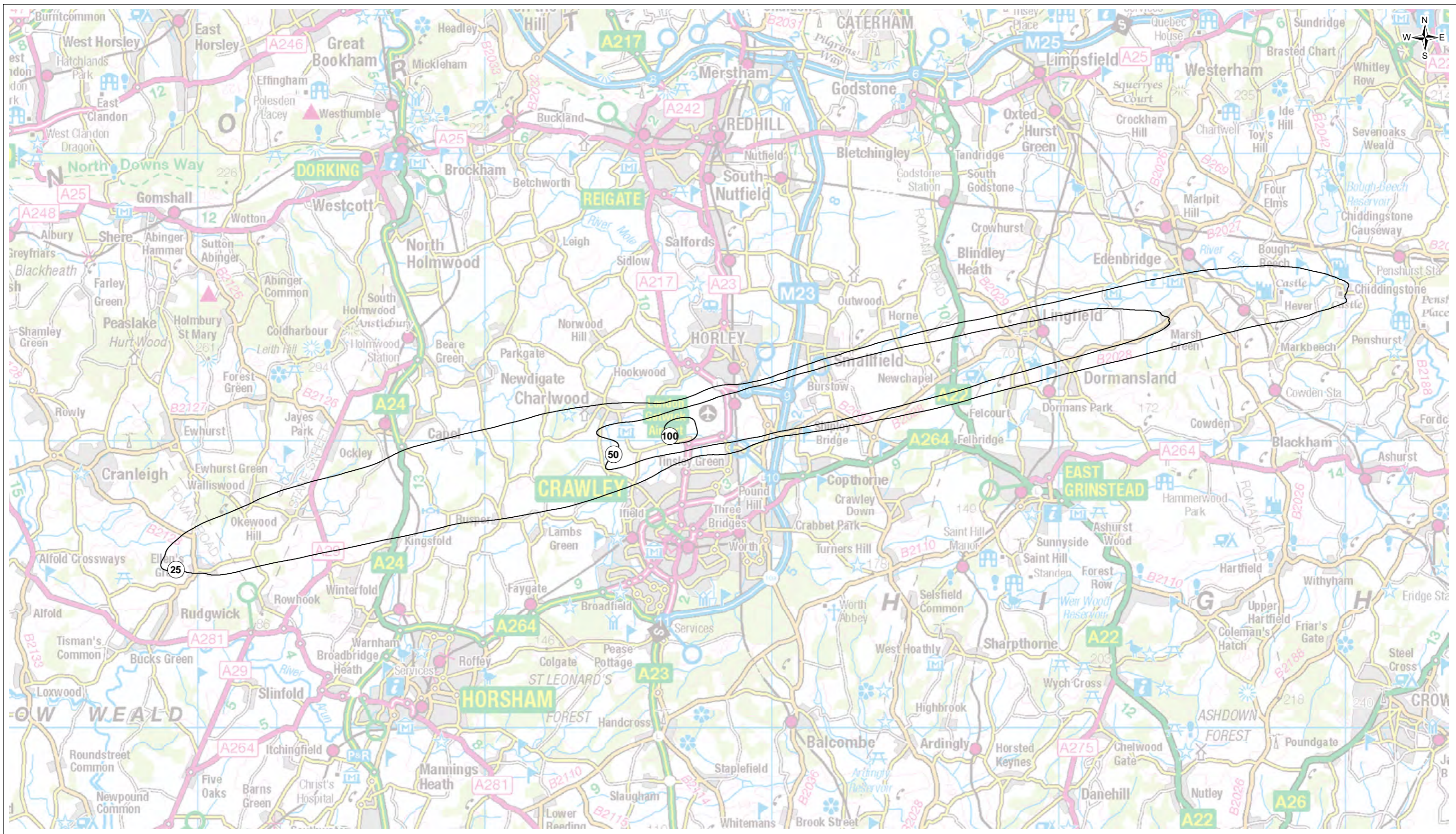
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— $L_{Aeq,8h}$ dB



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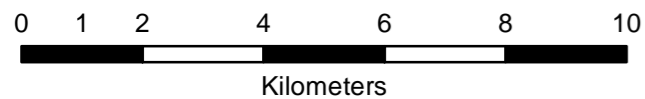
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— N60



Project
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LOCAL NOISE ASSESSMENT**

FIGURE LNA1003

Drawing Title
**Gatwick Airport
2013 Current Scenario
N60 Contours**

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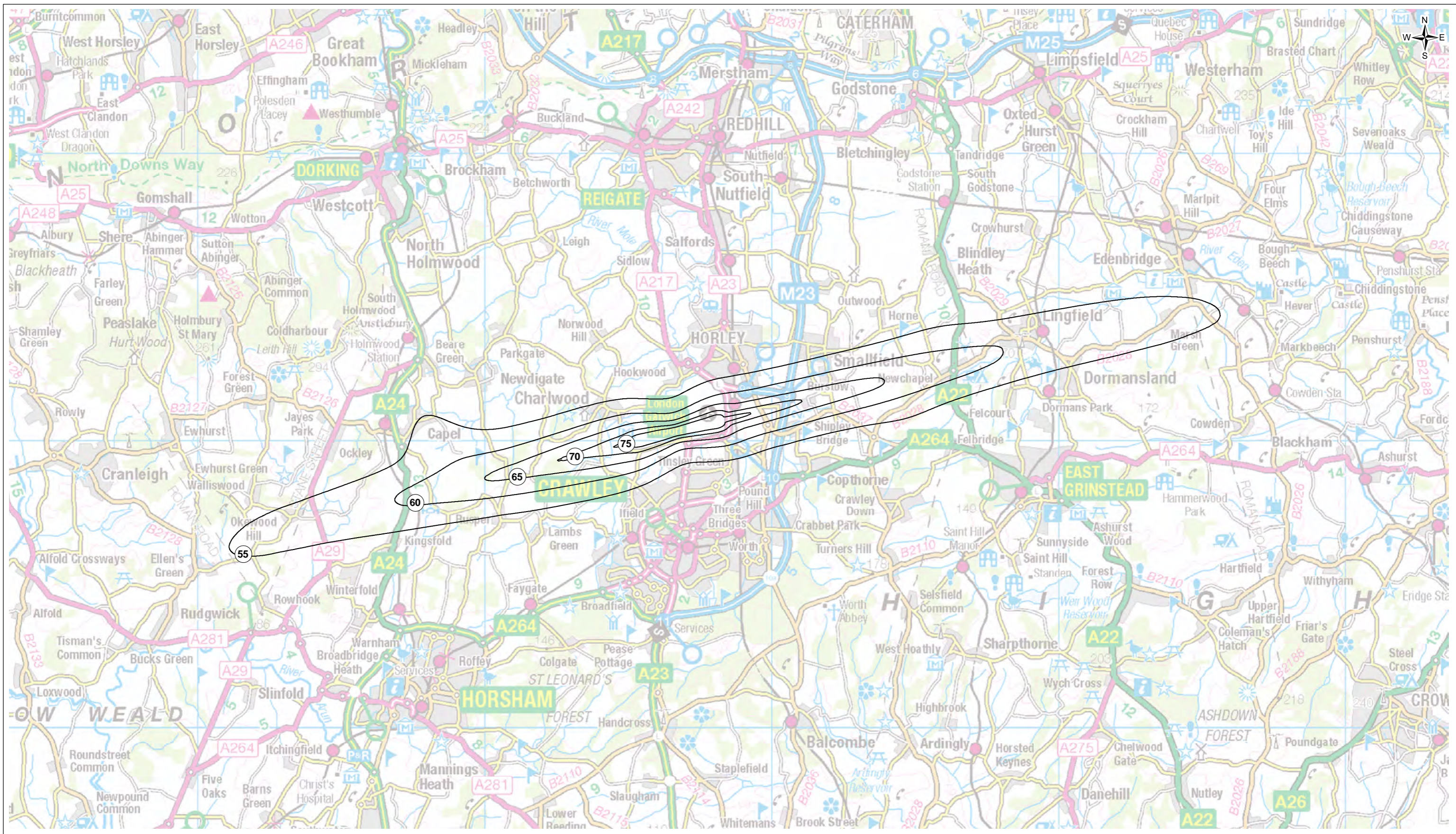
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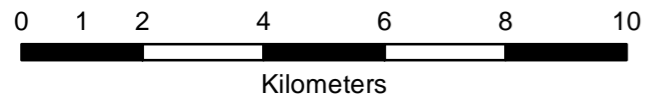
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— L_{den} dB



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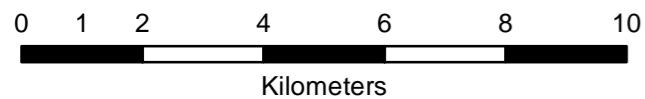
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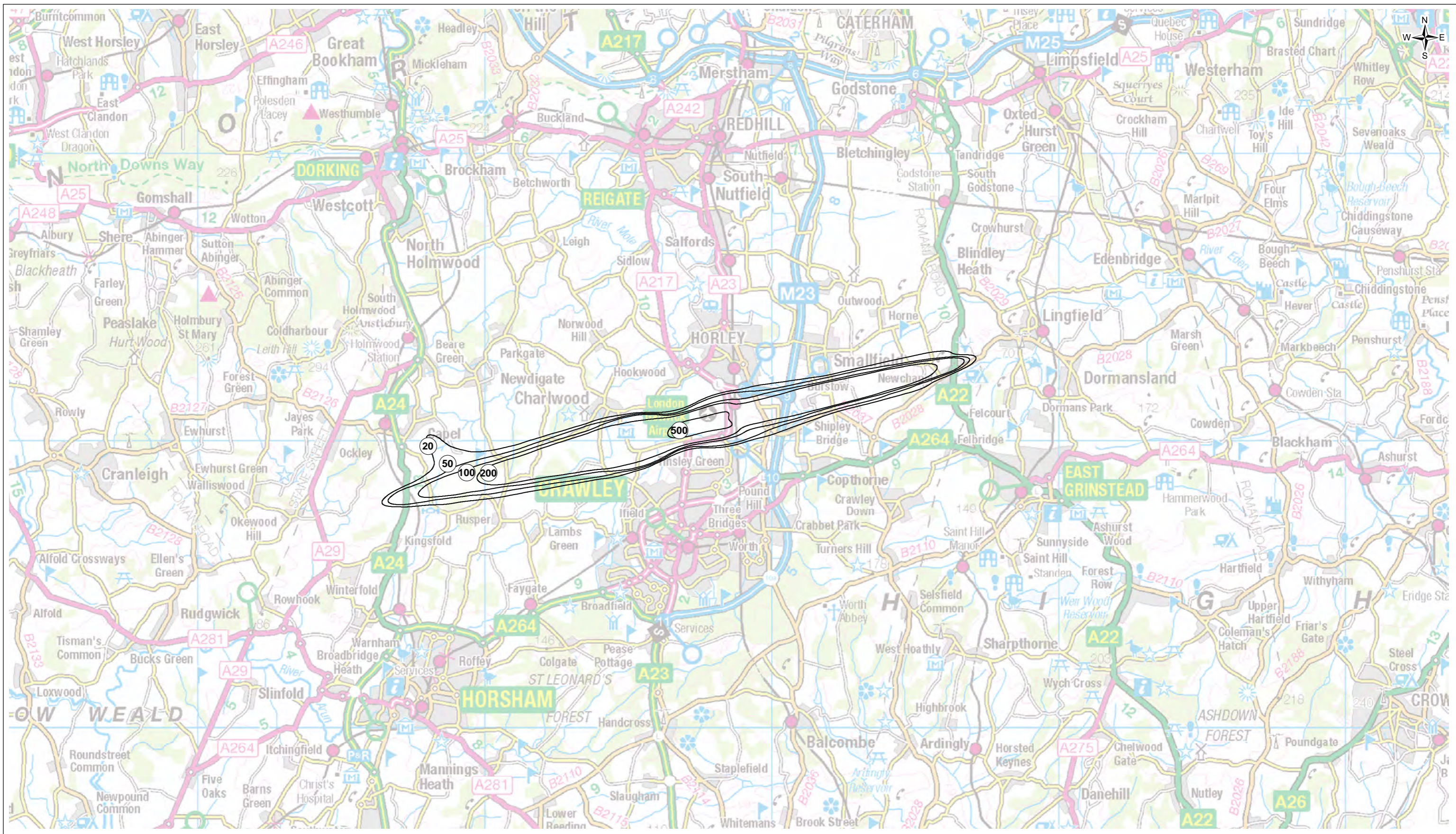
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— L_{Aeq,16h} dB



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Drawing Title		Gatwick Airport 2030 Do-Minimum Scenario L _{Aeq,16h} Contours				JACOBS	
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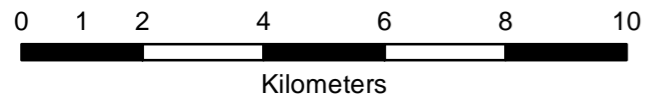
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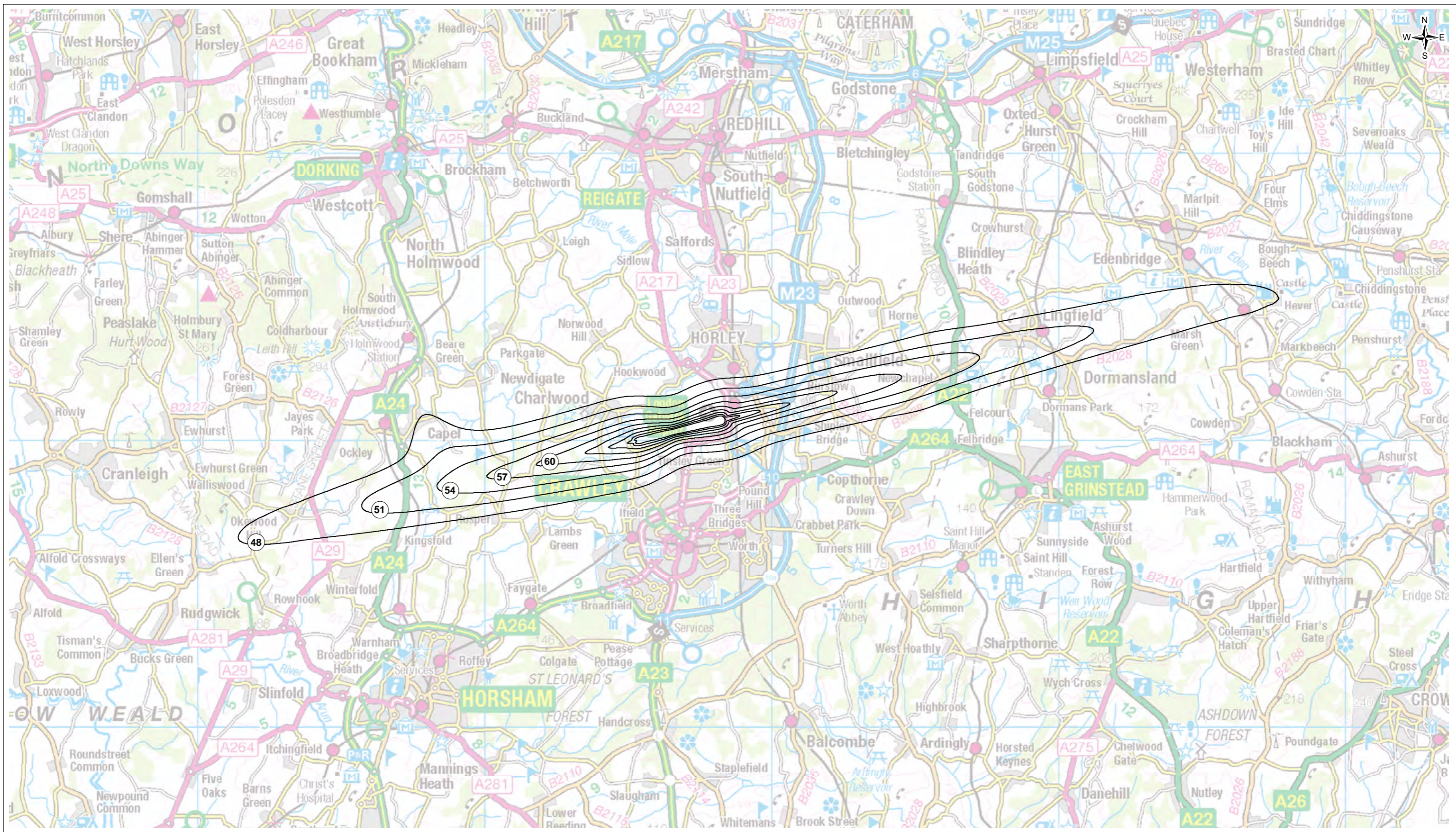
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1006	
Drawing Title		Gatwick Airport 2030 Do-Minimum Scenario N70 Contours				JACOBS	
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Drawing No.		B4160007_LNA1006					



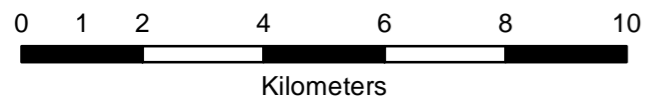
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Legend

— $L_{Aeq,8h}$ dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1007

Drawing Title
**Gatwick Airport
2030 Do-Minimum Scenario
 $L_{Aeq,8h}$ Contours**

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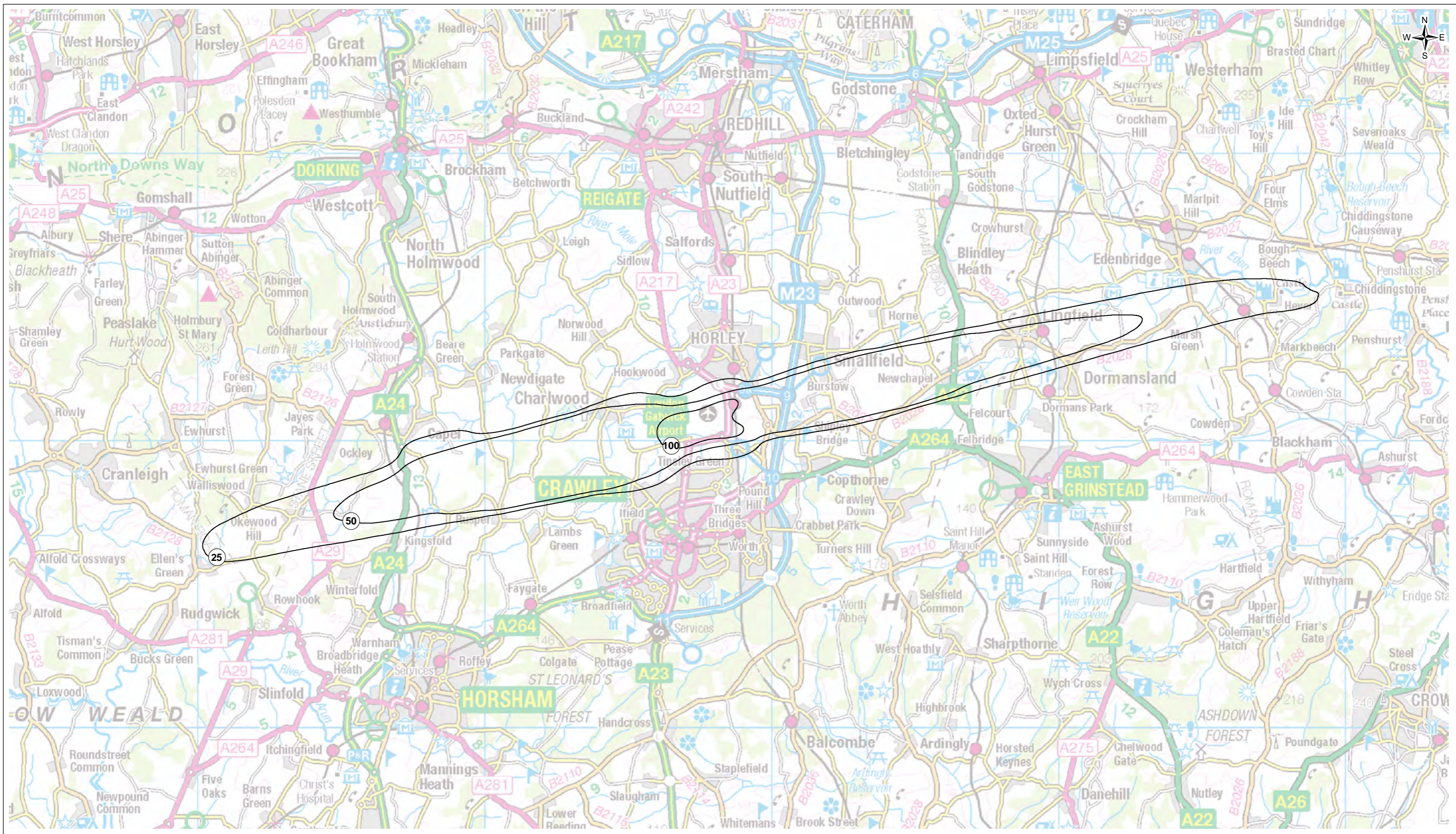
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Drawing No. B4160007_LNA1007

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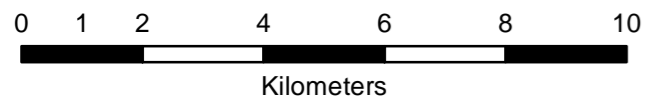
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— N60



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1008

Drawing Title
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N60 Contours**

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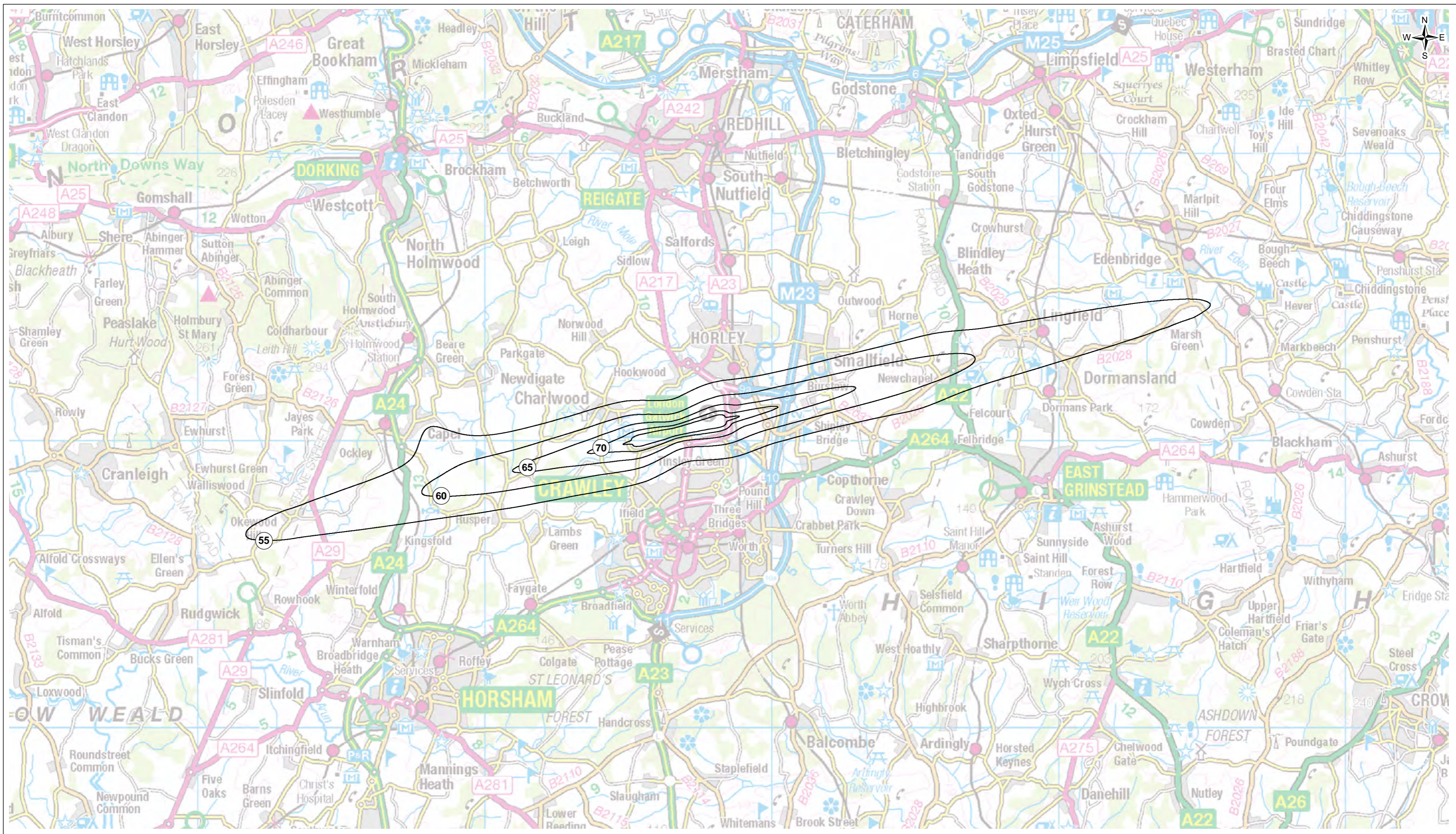
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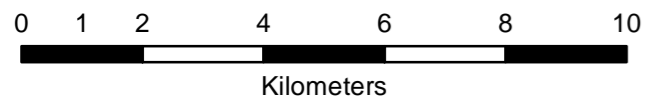
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1009	
Drawing Title		Gatwick Airport 2030 Do-Minimum Scenario Lden Contours				JACOBS	
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Jacobs No. B4160007							
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Drawing No.		B4160007_LNA1009					



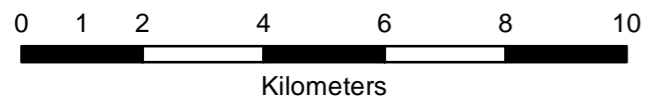
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Legend

— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1010	
Drawing Title		Gatwick Airport 2040 Do-Minimum Scenario L _{Aeq,16h} Contours				JACOBS	
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Client		Airports Commission					
Drawing No.		B4160007_LNA1010					
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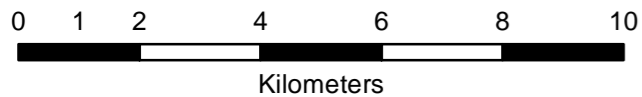
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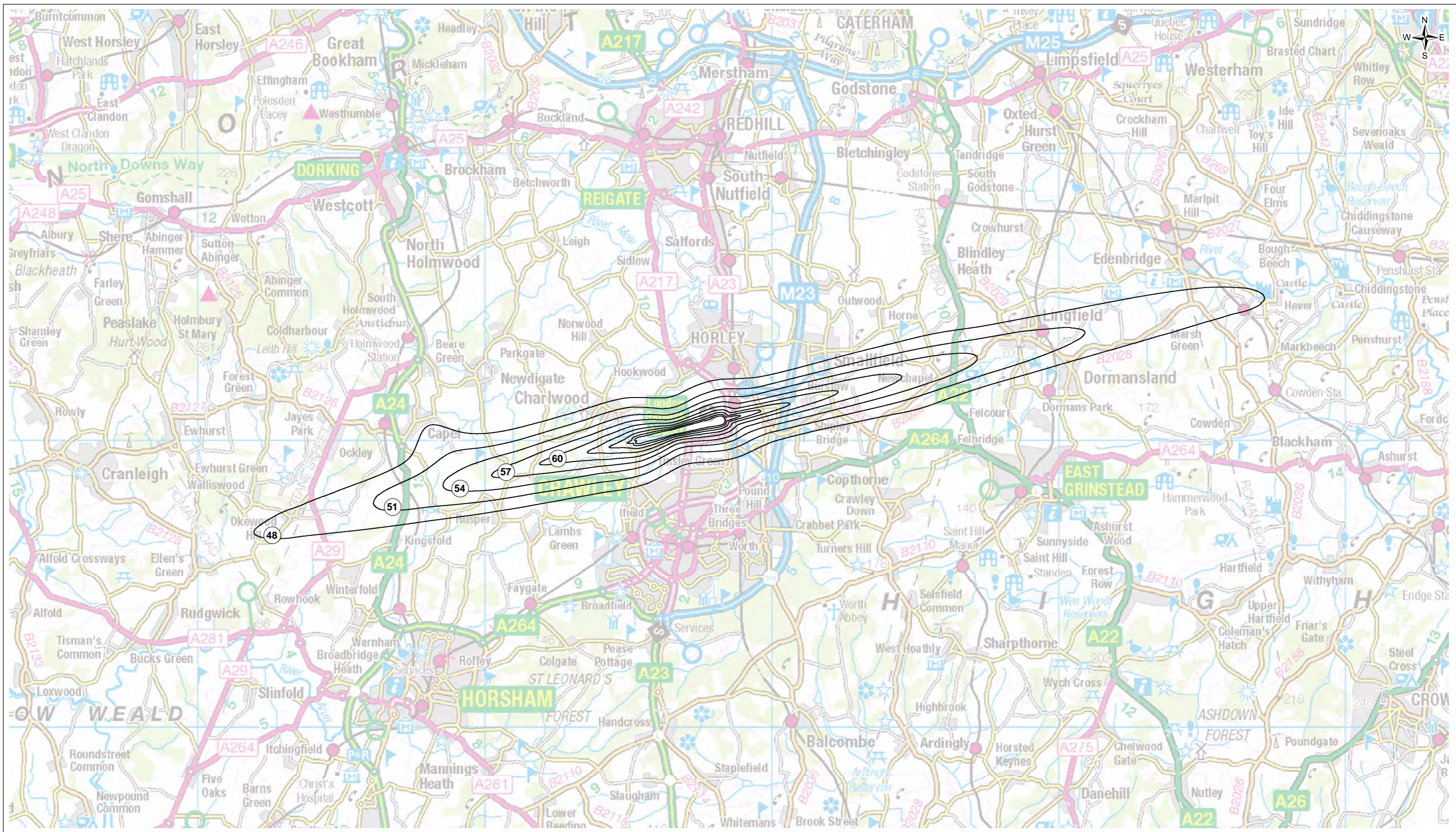
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1011	
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Drawing No.		B4160007_LNA1011					



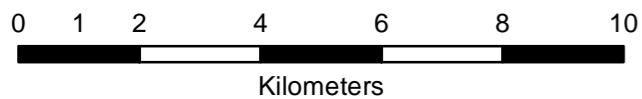
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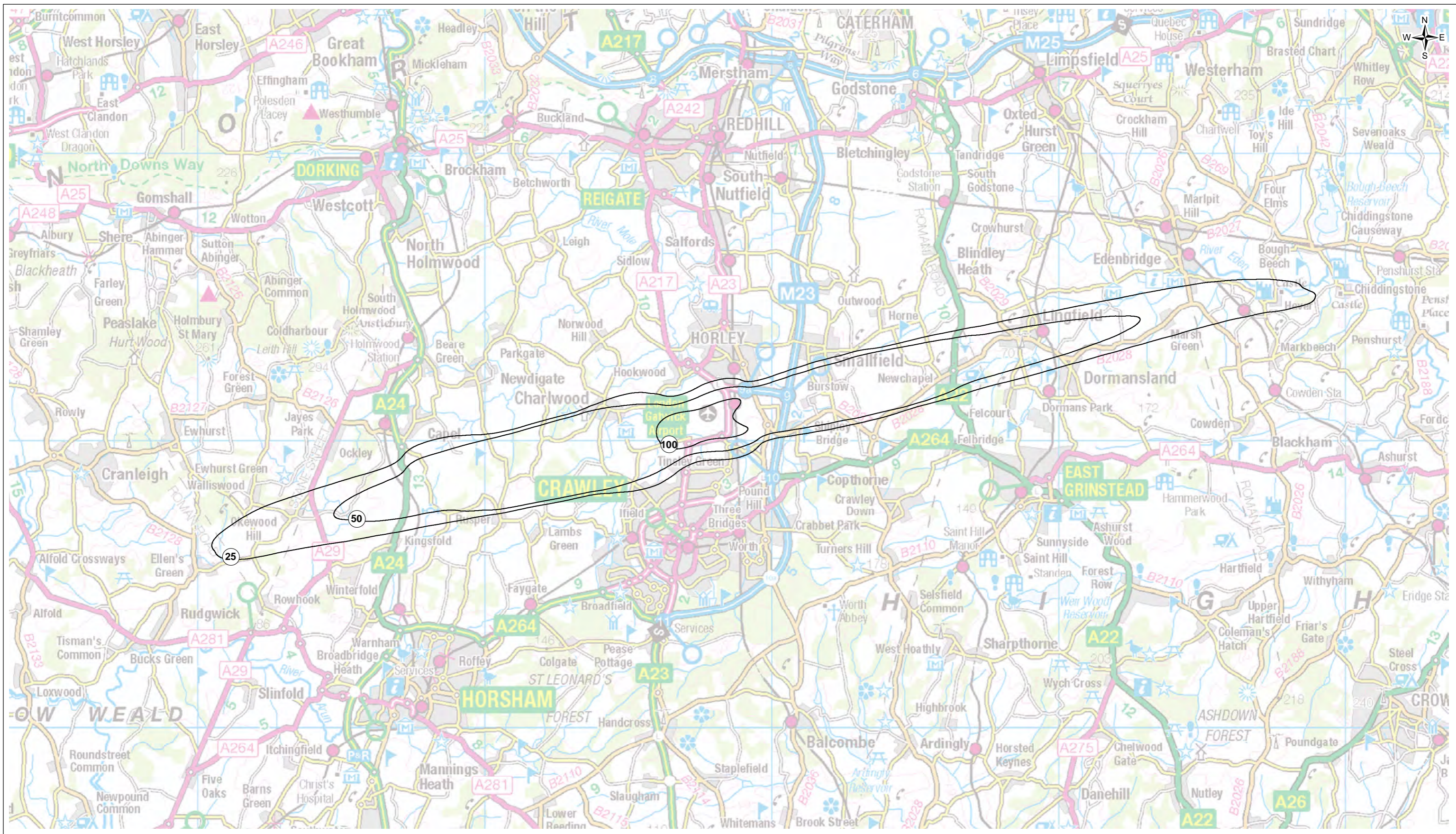
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— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1012	
Drawing Title		Gatwick Airport 2040 Do-Minimum Scenario $L_{Aeq,8h}$ Contours				JACOBS	
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Drawing No.		B4160007_LNA1012					



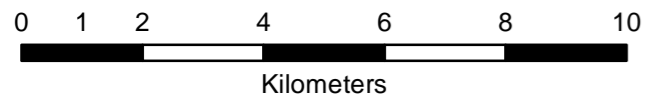
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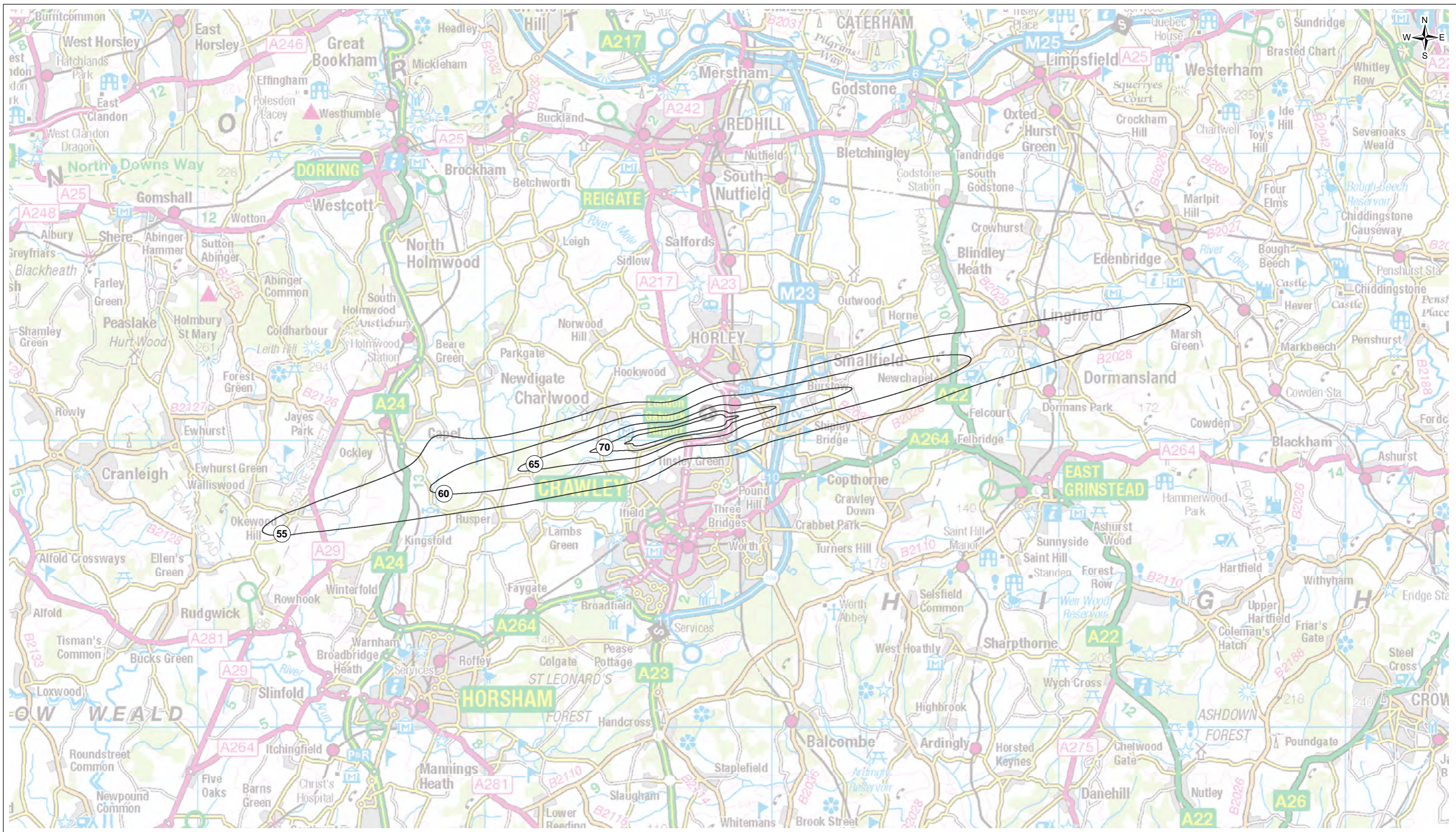
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1013	
Drawing Title		Gatwick Airport 2040 Do-Minimum Scenario N60 Contours				JACOBS	
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Drawing No. B4160007_LNA1013							



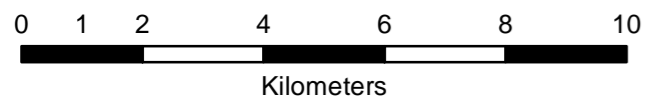
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1014	
Drawing Title		Gatwick Airport 2040 Do-Minimum Scenario Lden Contours				JACOBS	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
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DO NOT SCALE							
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA1014					



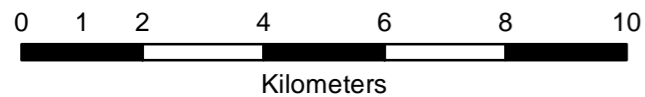
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— $L_{Aeq,16h}$ dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1015

Drawing Title
**Gatwick Airport
2050 Do-Minimum Scenario
 $L_{Aeq,16h}$ Contours**



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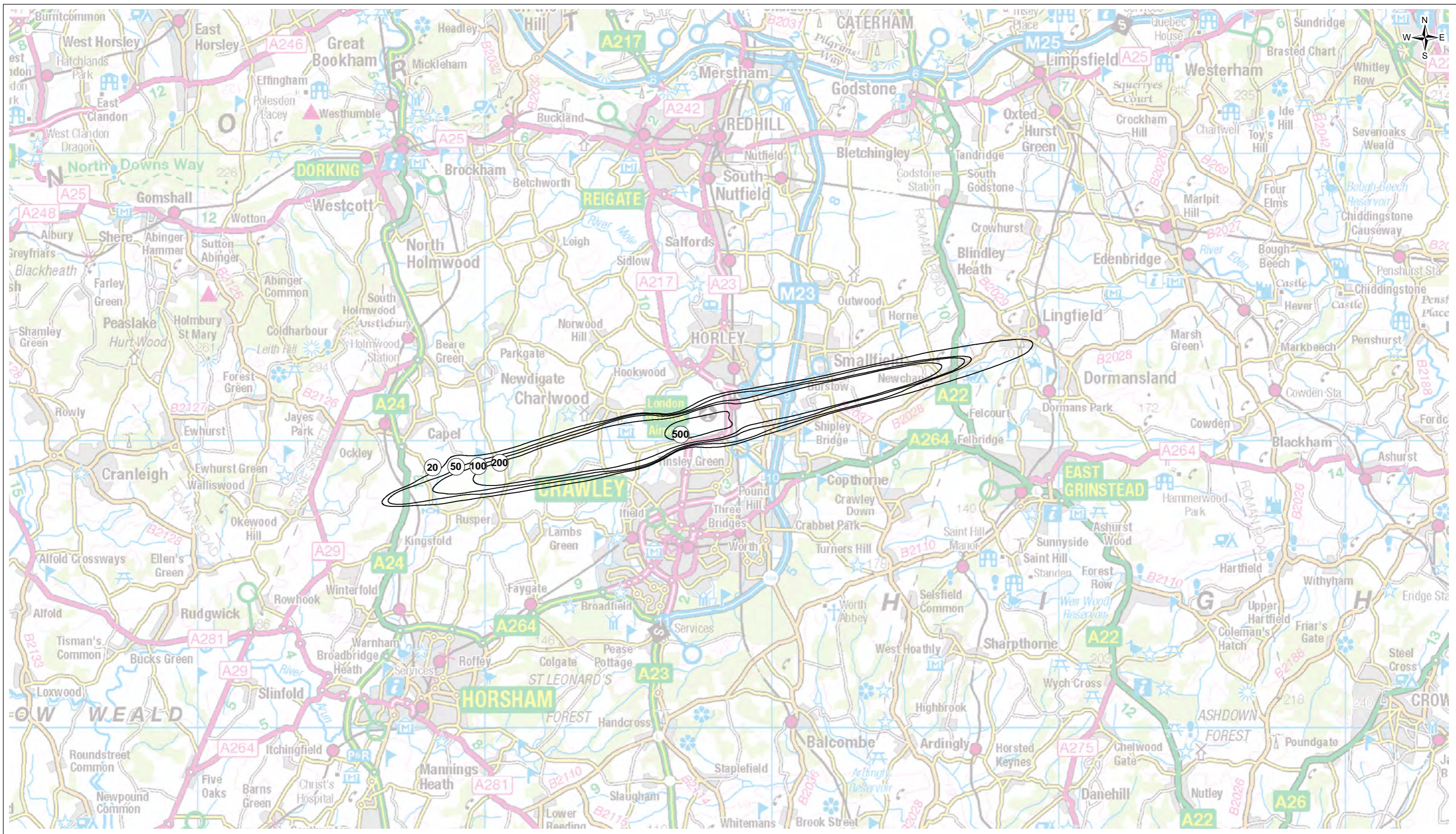
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Client No.

Drawing No. B4160007_LNA1015





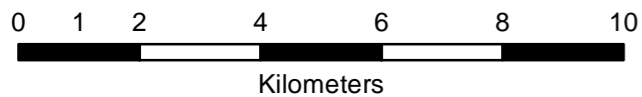
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— N70



Project AIRPORTS COMMISSION
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FIGURE LNA1016

Drawing Title Gatwick Airport
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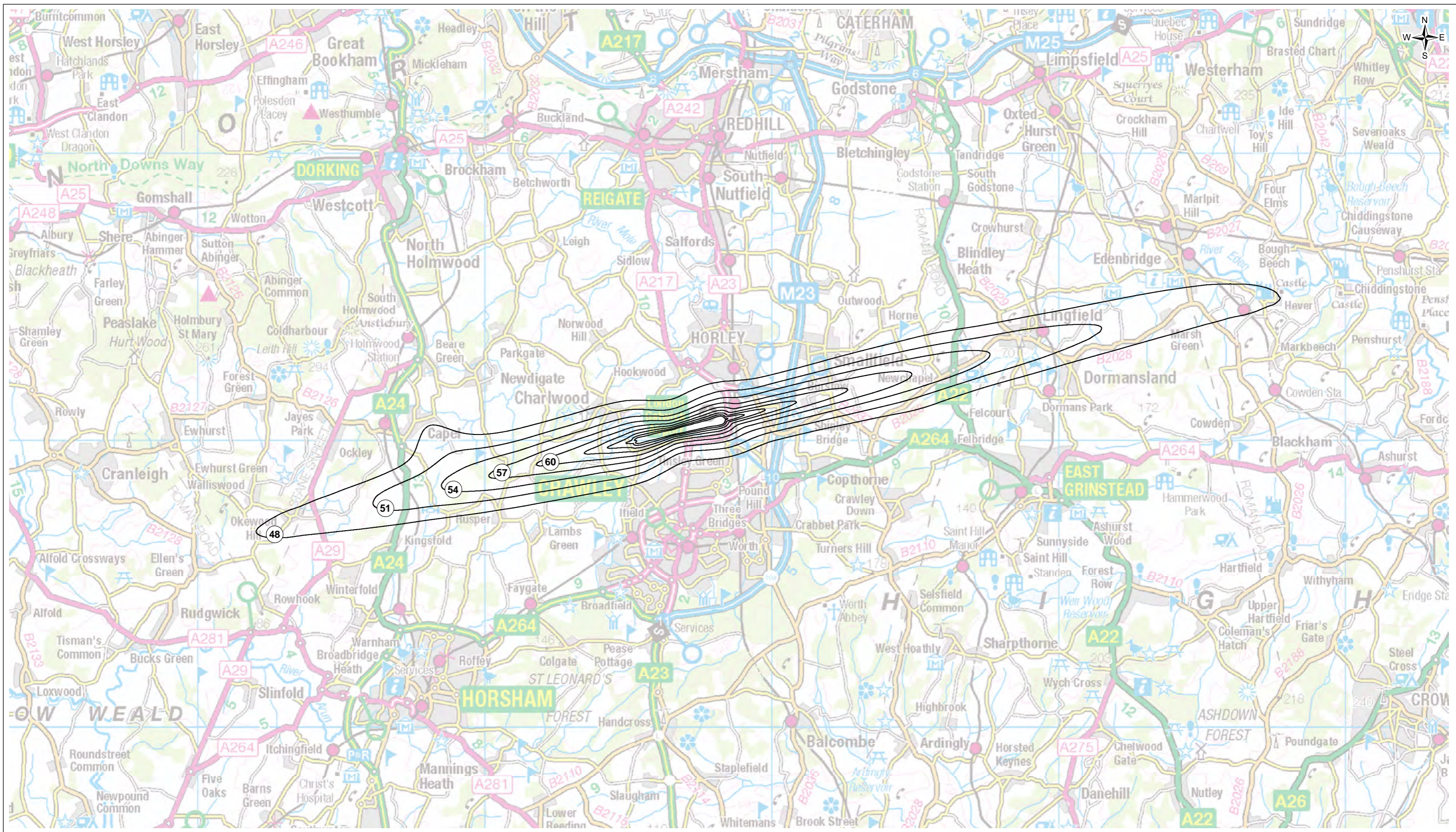
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Drawing No. B4160007_LNA1016





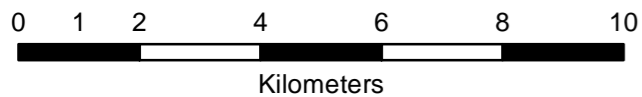
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— $L_{Aeq,8h}$ dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1017

Drawing Title
**Gatwick Airport
2050 Do-Minimum Scenario
 $L_{Aeq,8h}$ Contours**

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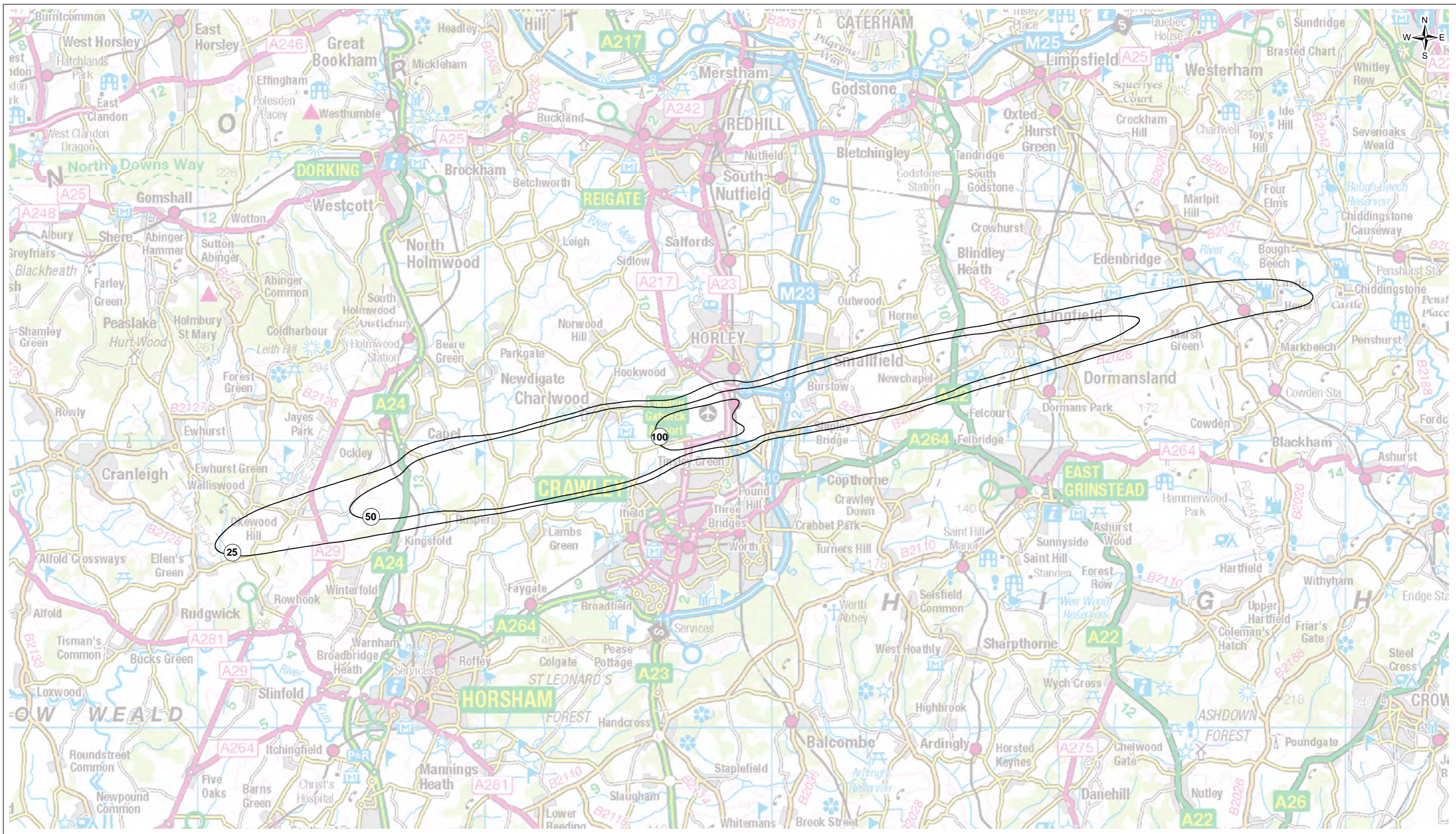
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Client No.

Drawing No. B4160007_LNA1017





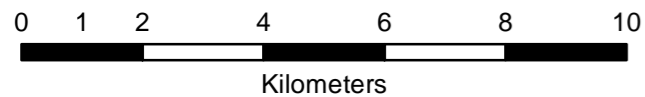
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— N60



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1018

Drawing Title
**Gatwick Airport
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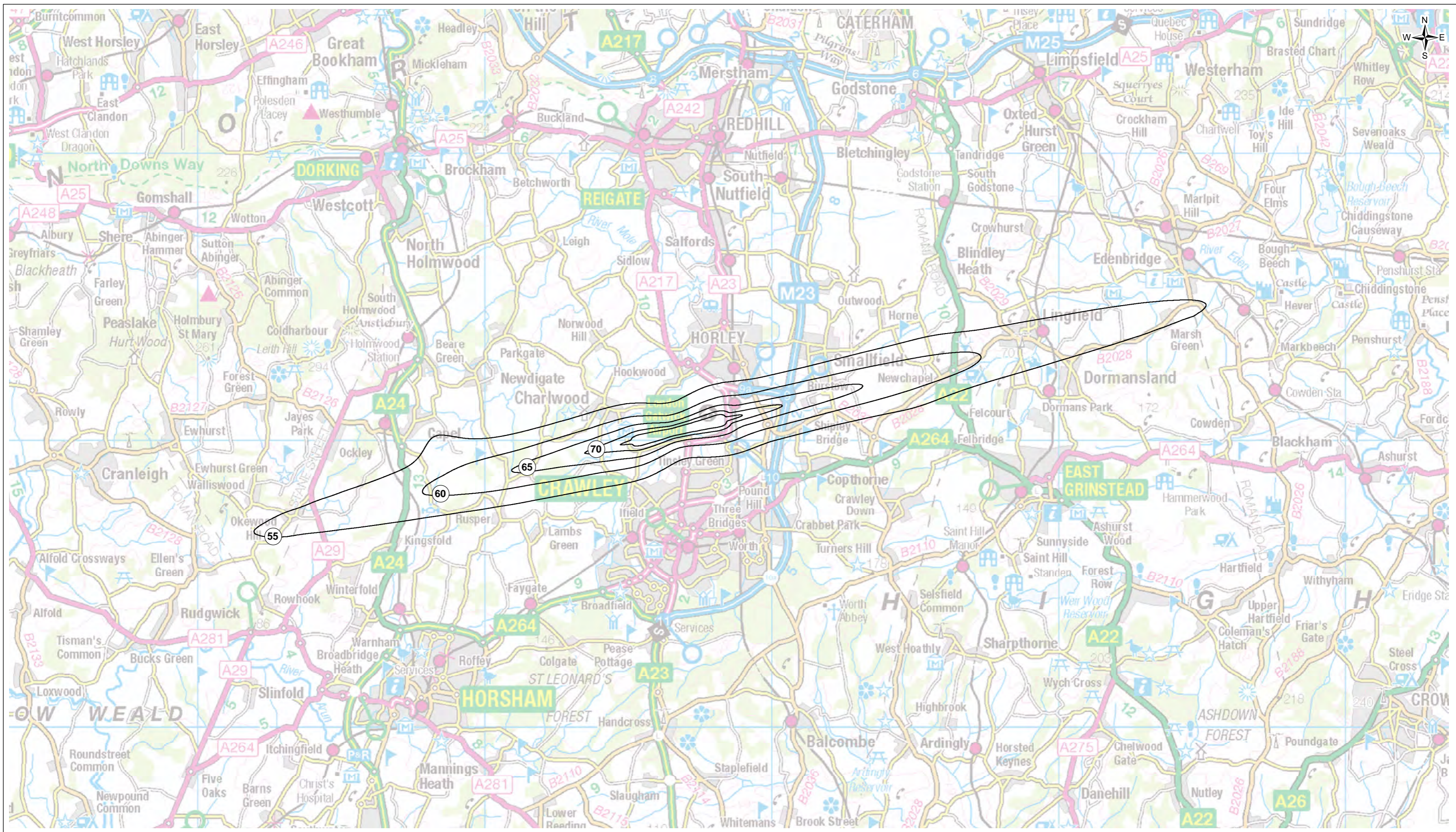
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Drawing No. B4160007_LNA1018

Client
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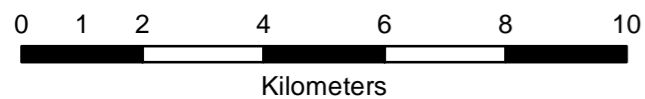
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1019	
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Drawing No.		B4160007_LNA1019					



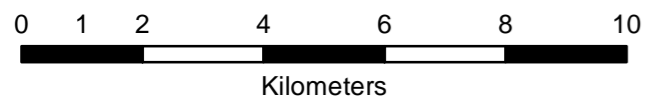
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— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1020	
Drawing Title		Gatwick Airport 2030 Second Runway 'Assessment of Need' Option $L_{Aeq,16h}$ Contours				JACOBS	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
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Drawing No. B4160007_LNA1020							



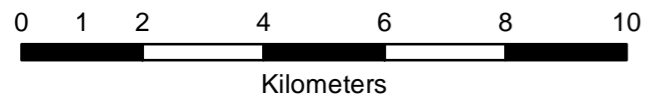
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1021	
Drawing Title		Gatwick Airport 2030 Second Runway 'Assessment of Need' Option N70 Contours				JACOBS	
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
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Drawing No. B4160007_LNA1021							



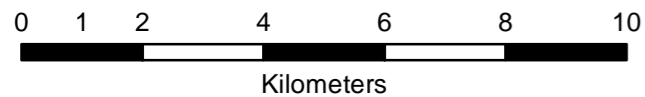
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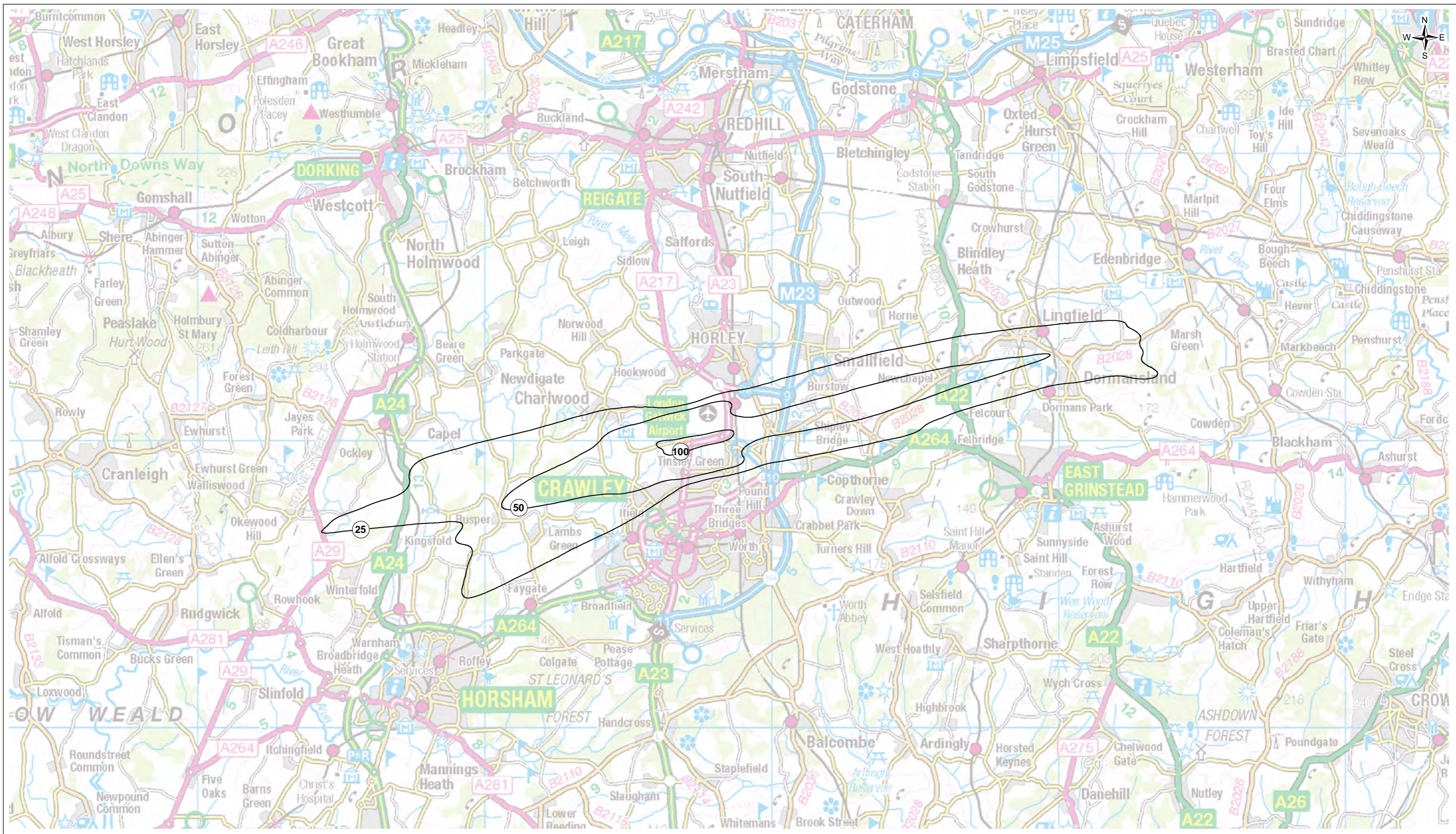
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— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1022	
Drawing Title		Gatwick Airport 2030 Second Runway 'Assessment of Need' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
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Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA1022					



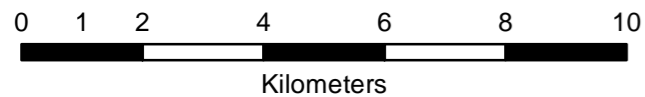
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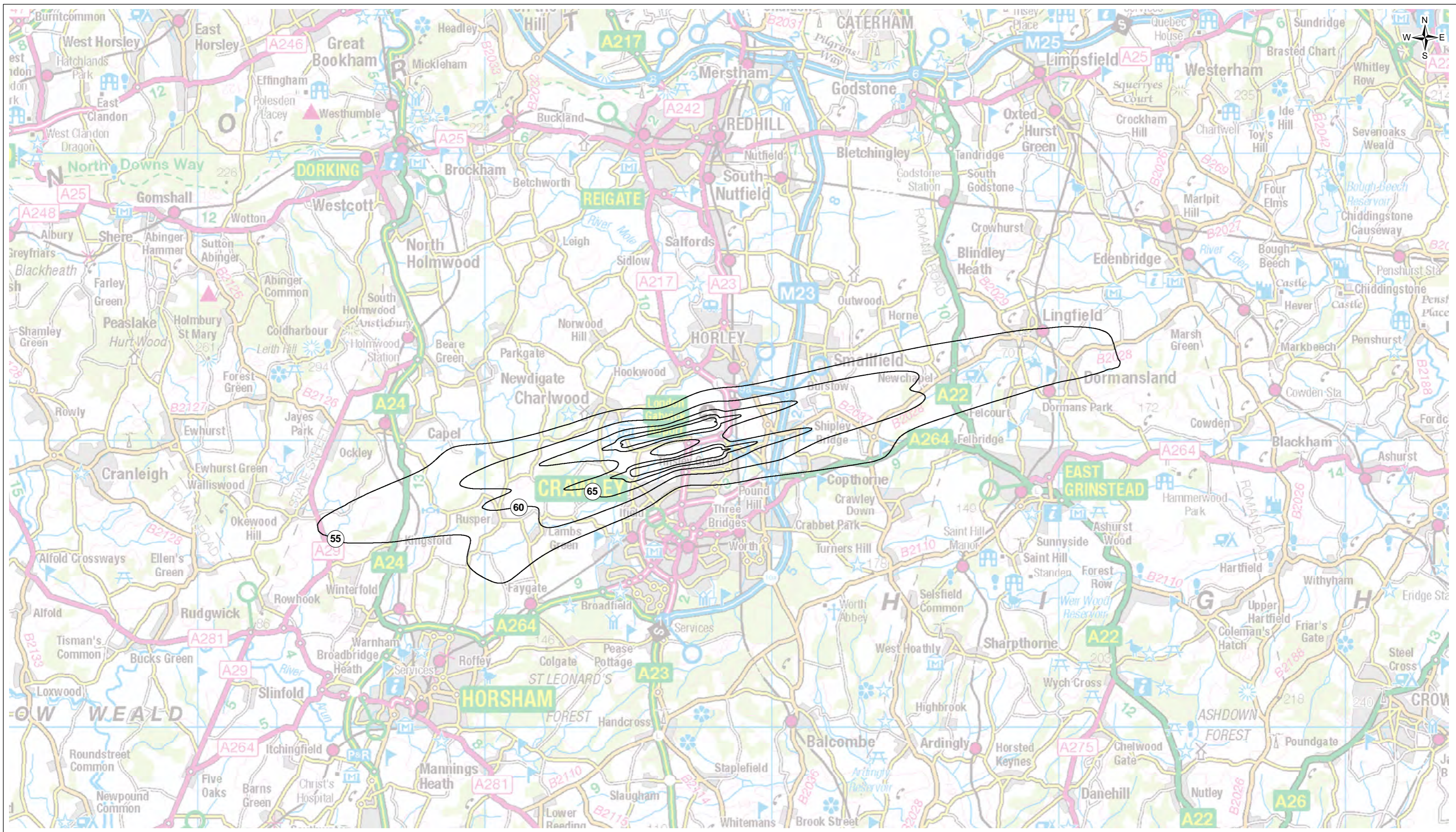
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1023	
Drawing Title		Gatwick Airport 2030 Second Runway 'Assessment of Need' Option N60 Contours				JACOBS	
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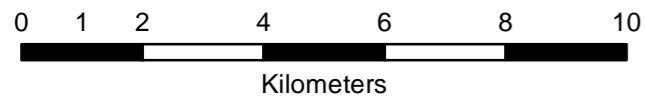
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1024	
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Drawing No. B4160007_LNA1024							



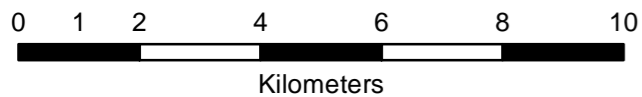
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Legend

— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1025
Drawing Title		Gatwick Airport 2040 Second Runway 'Assessment of Need' Option L _{Aeq,16h} Contours				
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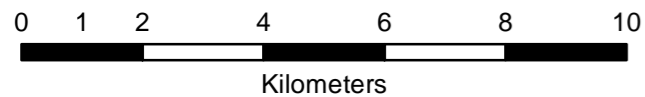
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1026	
Drawing Title		Gatwick Airport 2040 Second Runway 'Assessment of Need' Option N70 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA1026							



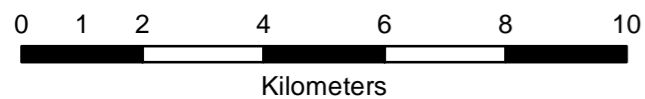
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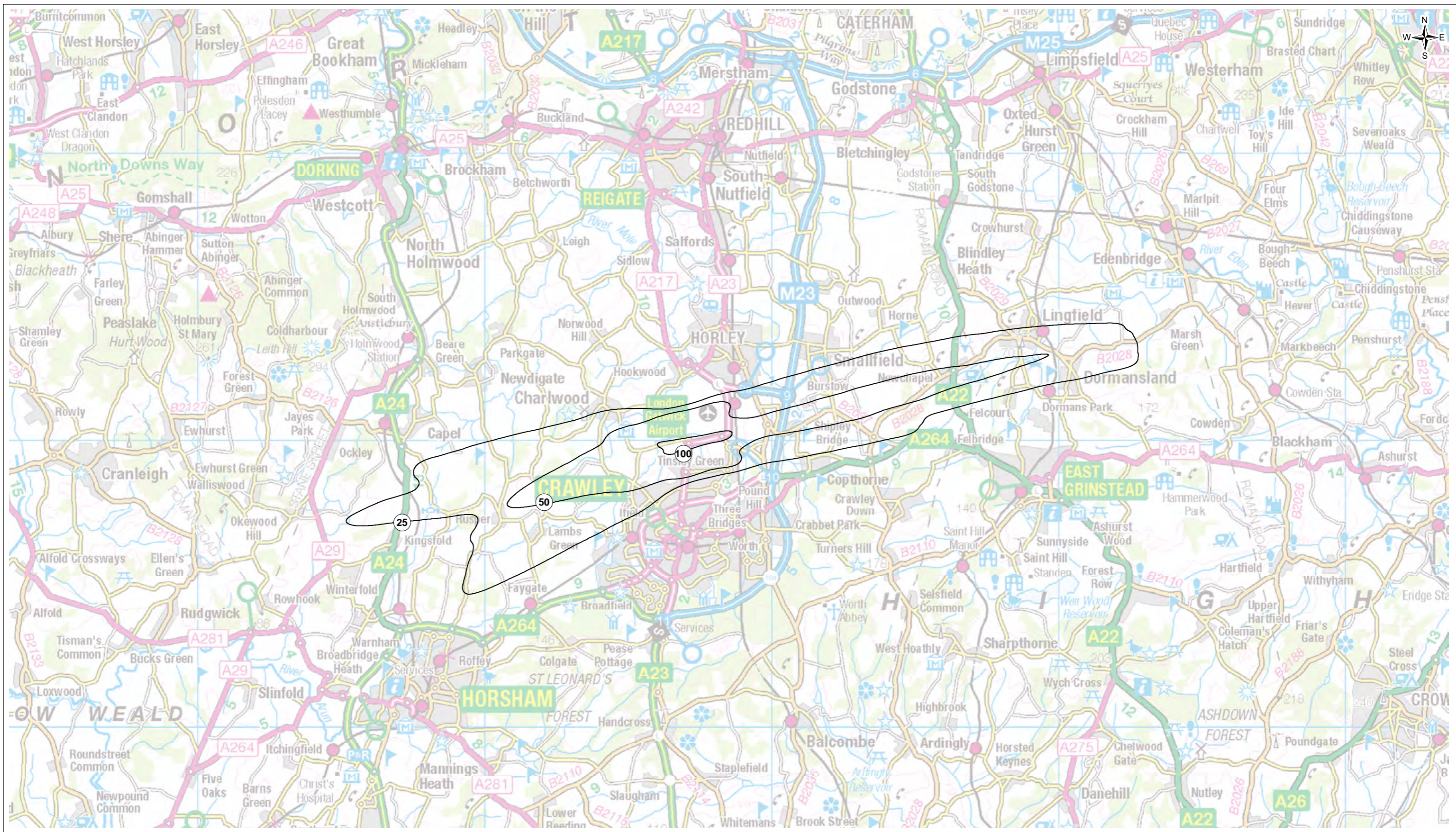
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— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1027	
Drawing Title		Gatwick Airport 2040 Second Runway 'Assessment of Need' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000			DO NOT SCALE				
Jacobs No. B4160007							
Drawing No.		B4160007_LNA1027					



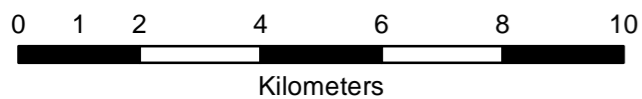
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1028	
Drawing Title		Gatwick Airport 2040 Second Runway 'Assessment of Need' Option N60 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No.		B4160007					
Client No.							
Drawing No.		B4160007_LNA1028					



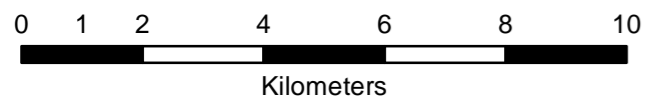
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1029	
Drawing Title		Gatwick Airport 2040 Second Runway 'Assessment of Need' Option Lden Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No. B4160007						Client	
Drawing No.							
Drawing No.		B4160007_LNA1029					



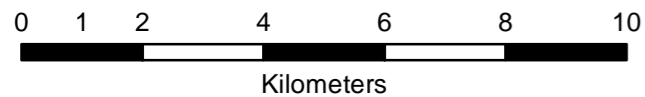
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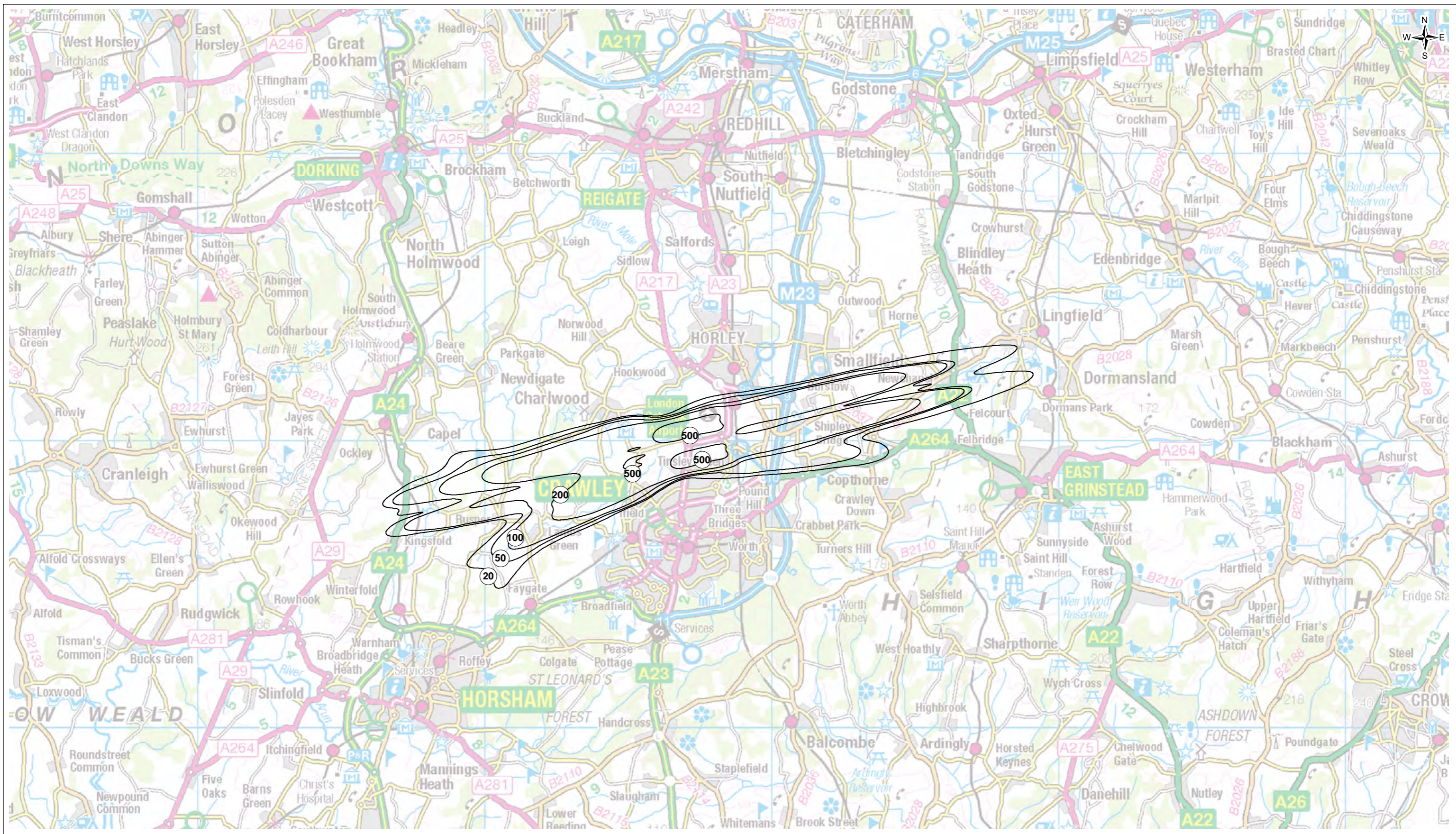
— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1030
Drawing Title		Gatwick Airport 2050 Second Runway 'Assessment of Need' Option L _{Aeq,16h} Contours				
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Scale @ A3 1:125,000		DO NOT SCALE				Client
Jacobs No. B4160007						
Drawing No.						
Drawing No.		B4160007_LNA1030				

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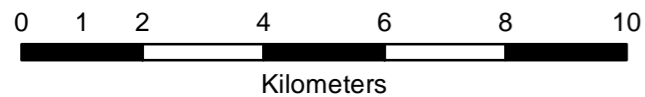
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1031	
Drawing Title		Gatwick Airport 2050 Second Runway 'Assessment of Need' Option N70 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA1031							



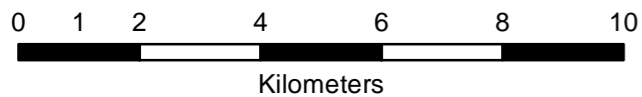
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Legend

— $L_{Aeq,8h}$ dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1032

Drawing Title
Gatwick Airport
2050 Second Runway 'Assessment of Need' Option
L_{Aeq,8h} Contours



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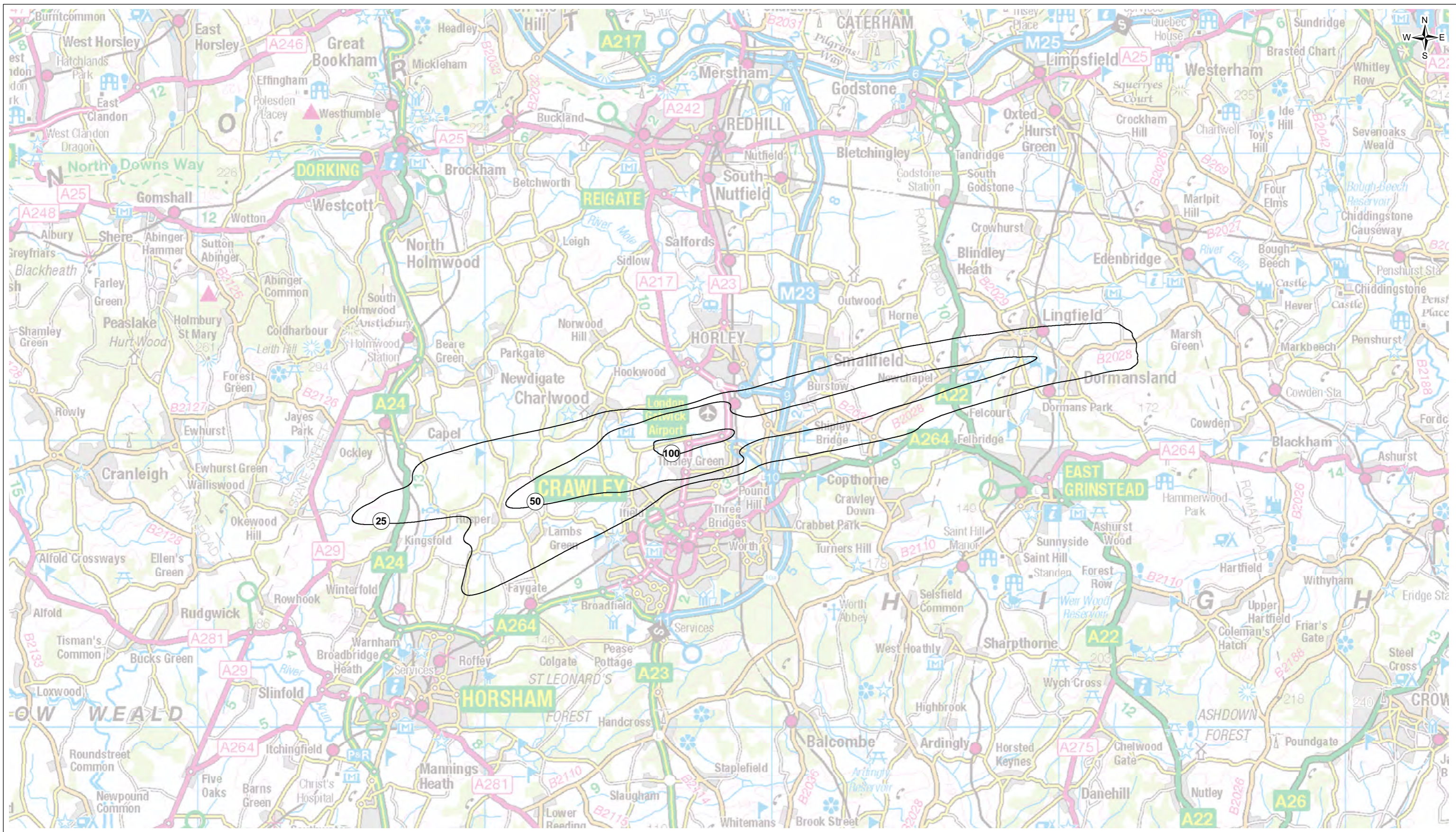
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

Client

Scale @ A3 1:125,000
Jacobs No. B4160007
Client No.



Drawing No. B4160007_LNA1032



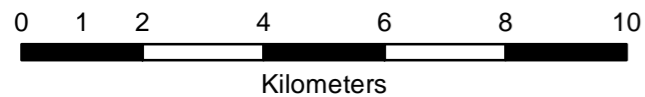
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1033	
Drawing Title		Gatwick Airport 2050 Second Runway 'Assessment of Need' Option N60 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA1033					



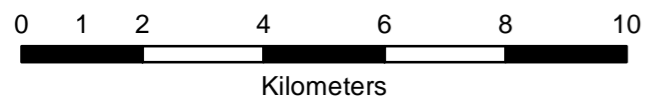
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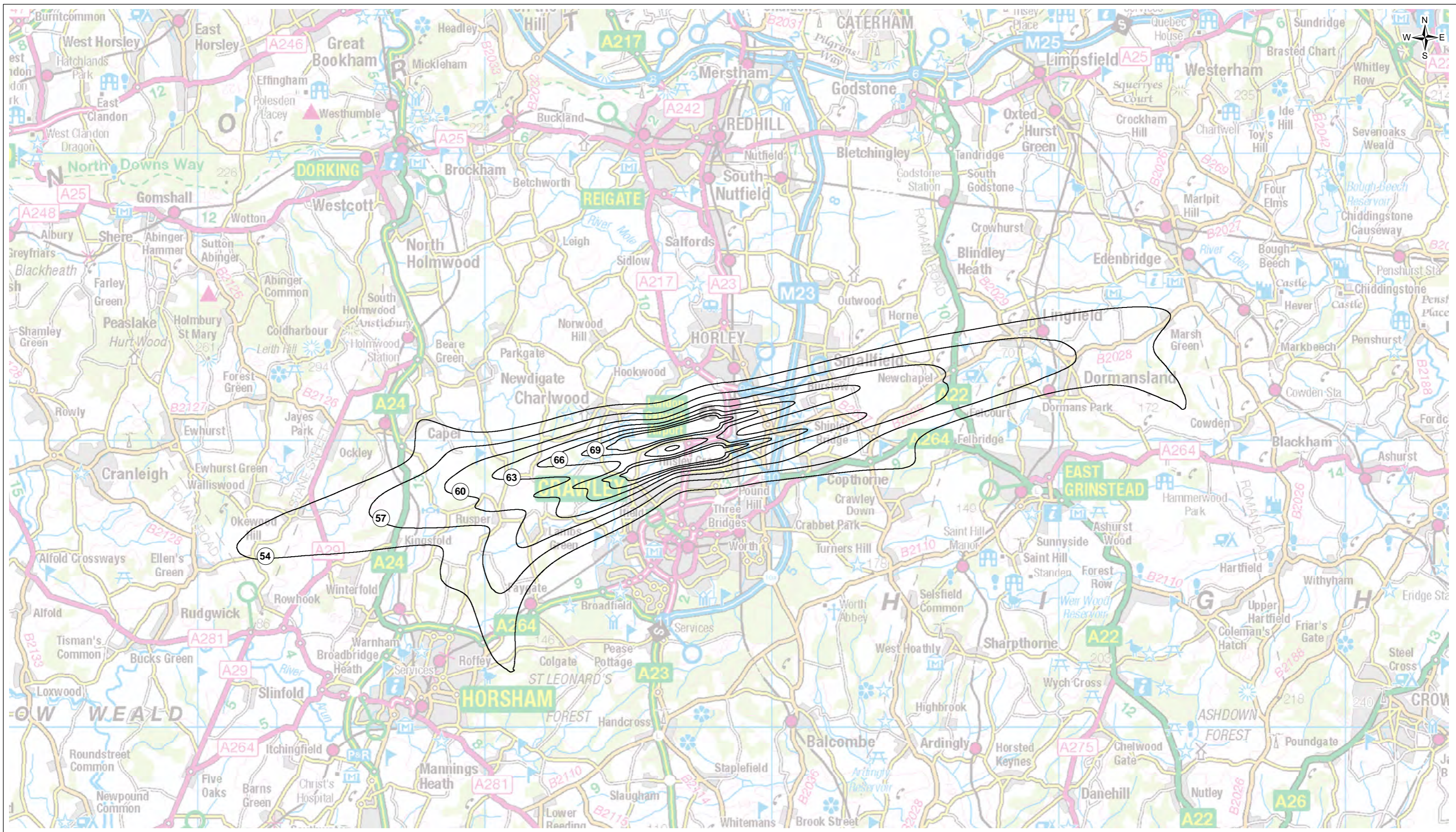
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Legend

— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1034	
Drawing Title		Gatwick Airport 2050 Second Runway 'Assessment of Need' Option Lden Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000			DO NOT SCALE				
Jacobs No. B4160007							
Drawing No.		B4160007_LNA1034					



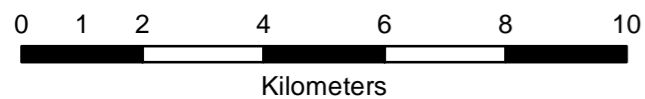
The Noise contours within this Figure were produced by:
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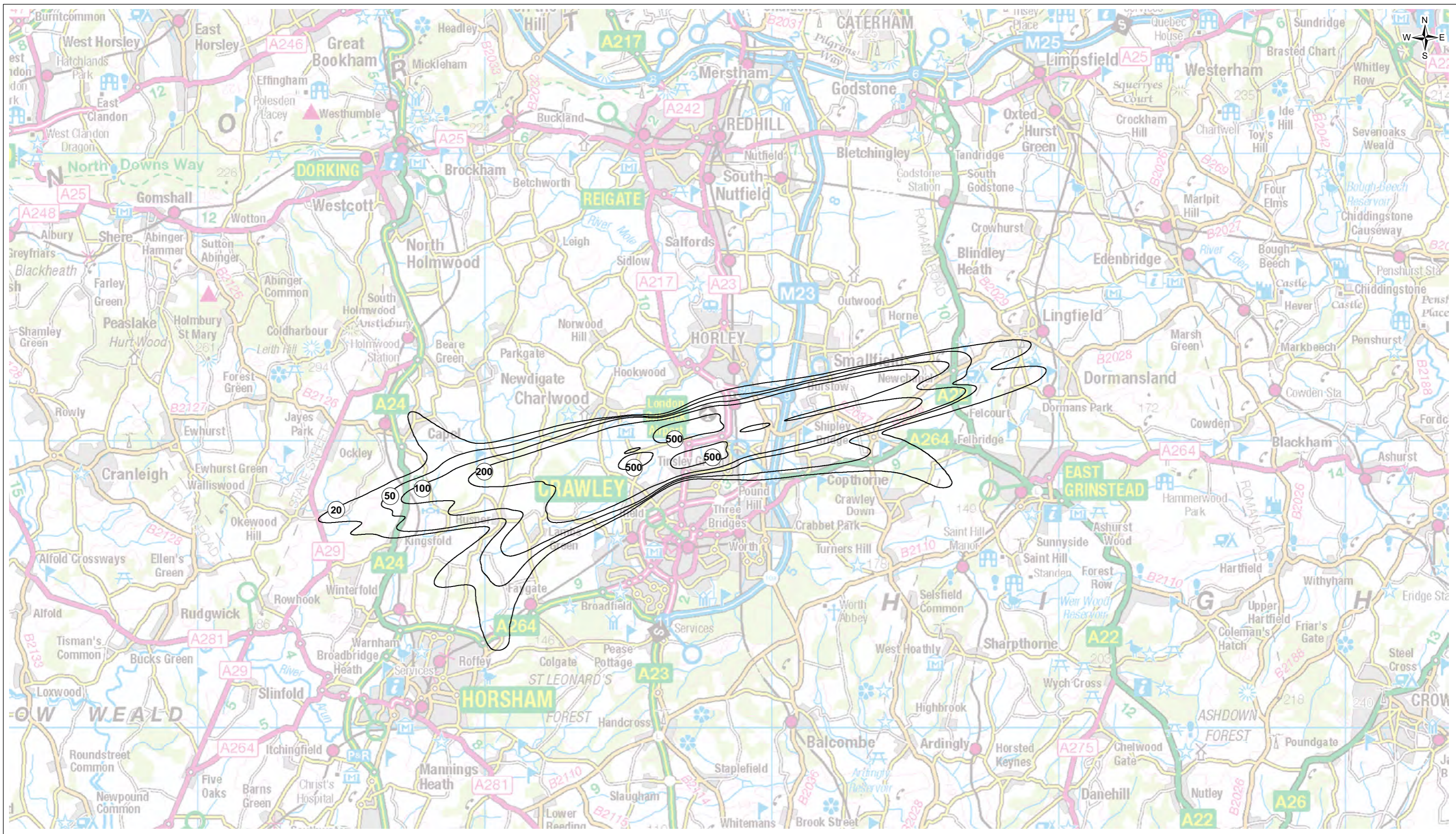
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Legend

— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1035	
Drawing Title		Gatwick Airport 2030 Second Runway 'Carbon Traded' Option $L_{Aeq,16h}$ Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No.		B4160007					
Client No.							
Drawing No.		B4160007_LNA1035					



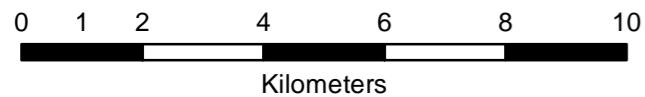
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1036	
Drawing Title		Gatwick Airport 2030 Second Runway 'Carbon Traded' Option N70 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA1036					



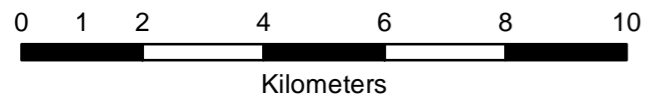
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— $L_{Aeq,8h}$ dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA1037

Drawing Title
Gatwick Airport
2030 Second Runway 'Carbon Traded' Option
L_{Aeq,8h} Contours

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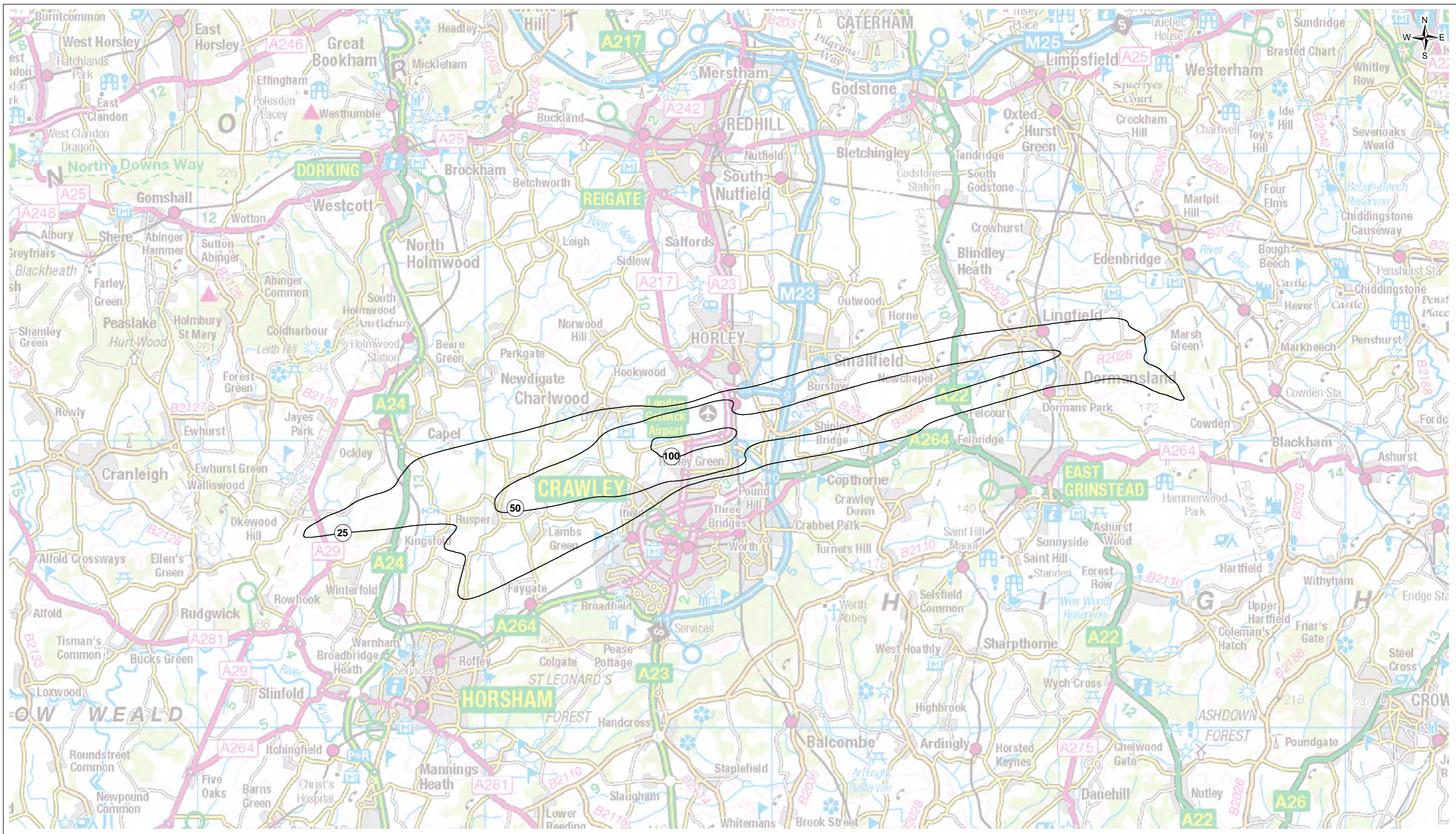
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

Client

Scale @ A3 1:125,000
Jacobs No. B4160007
Client No.



Drawing No. B4160007_LNA1037



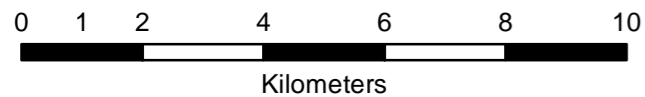
The Noise contours within this Figure were produced by:
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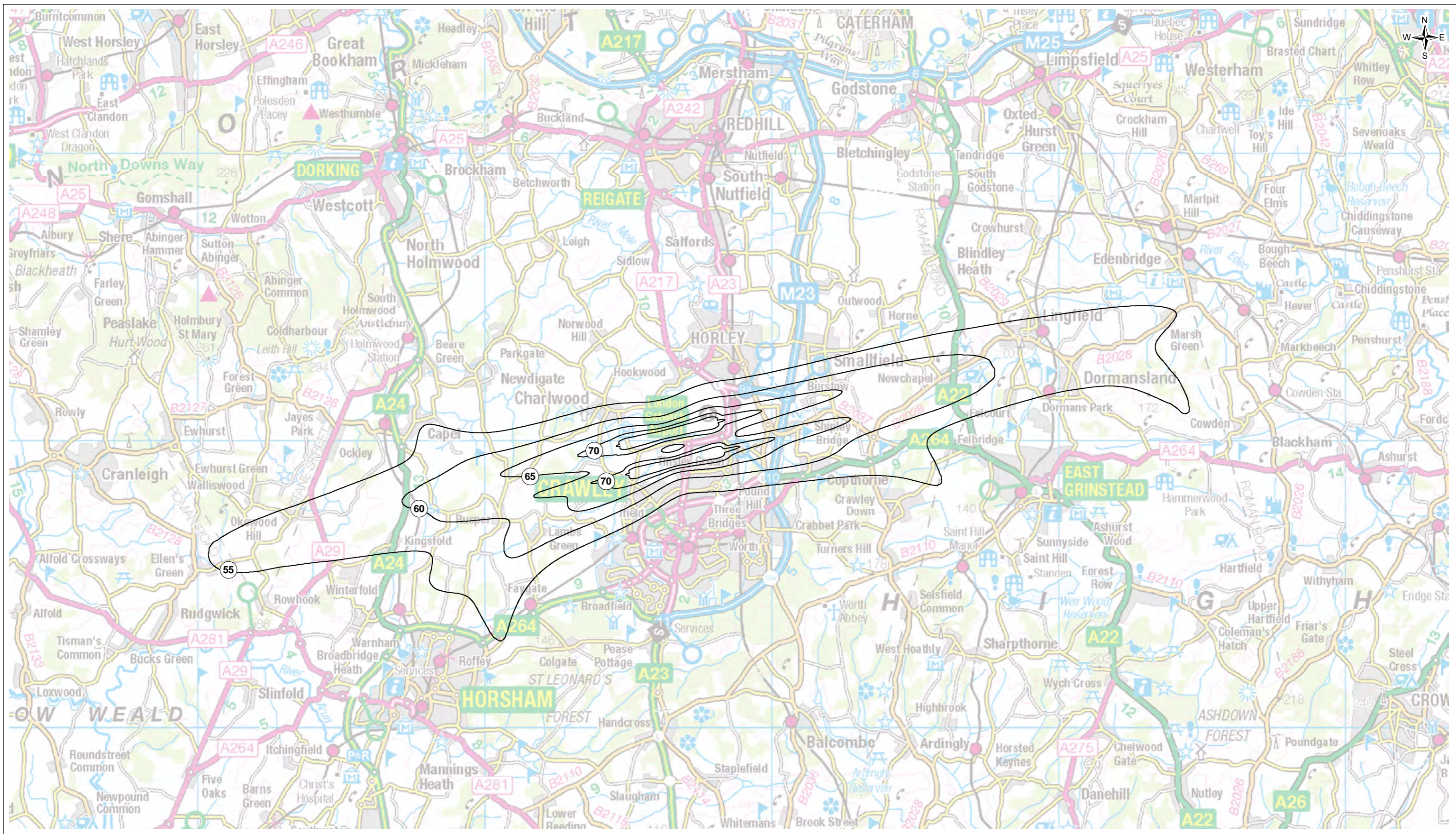
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1038	
Drawing Title		Gatwick Airport 2030 Second Runway 'Carbon Traded' Option N60 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA1038					



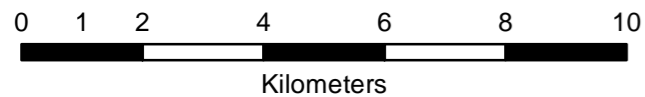
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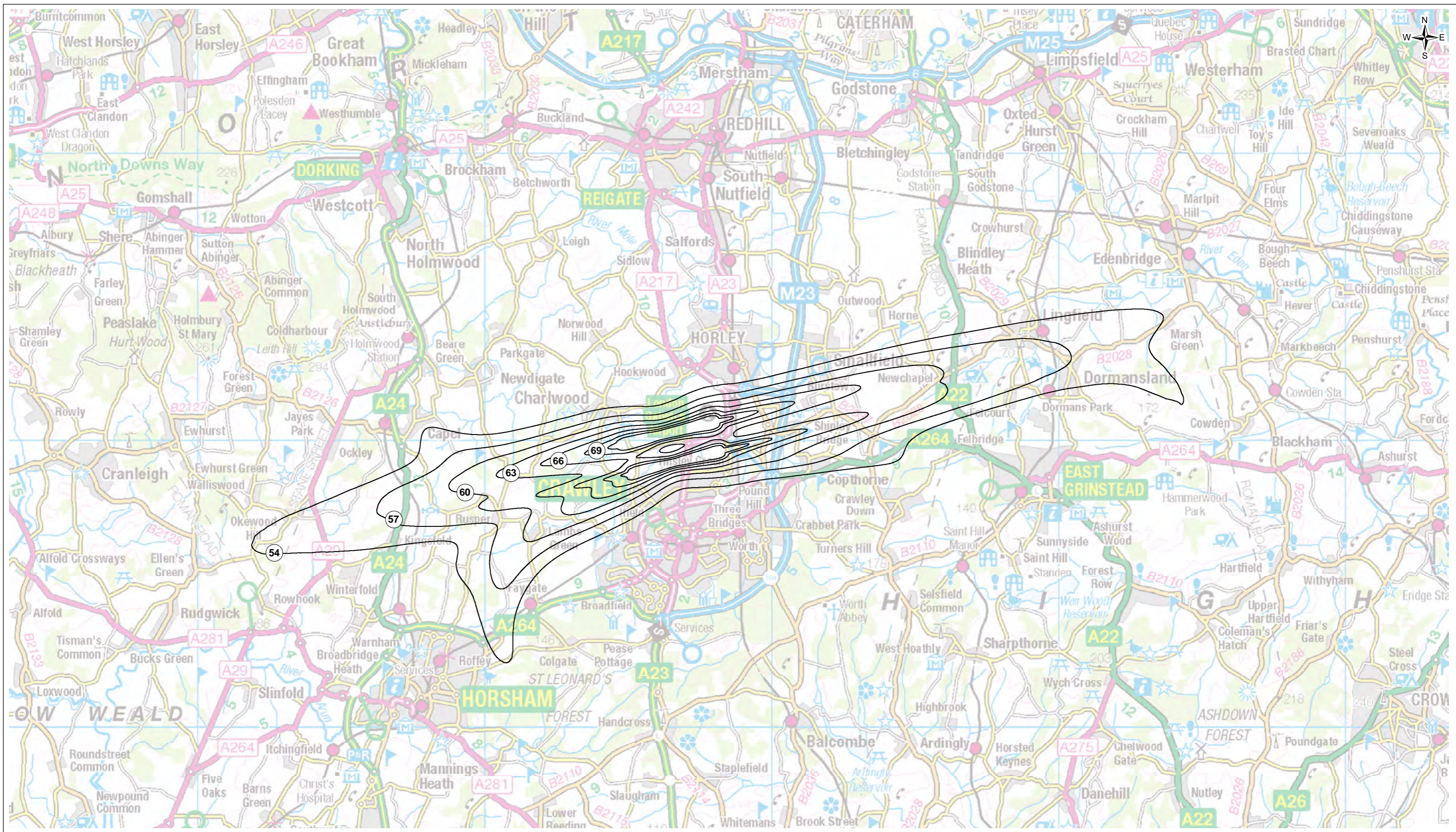
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Legend

— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1039	
Drawing Title		Gatwick Airport 2030 Second Runway 'Carbon Traded' Option Lden Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Client		Airports Commission					
Drawing No.		B4160007_LNA1039					



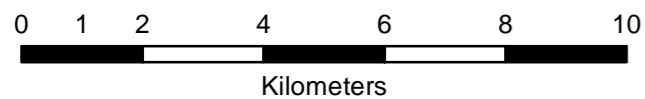
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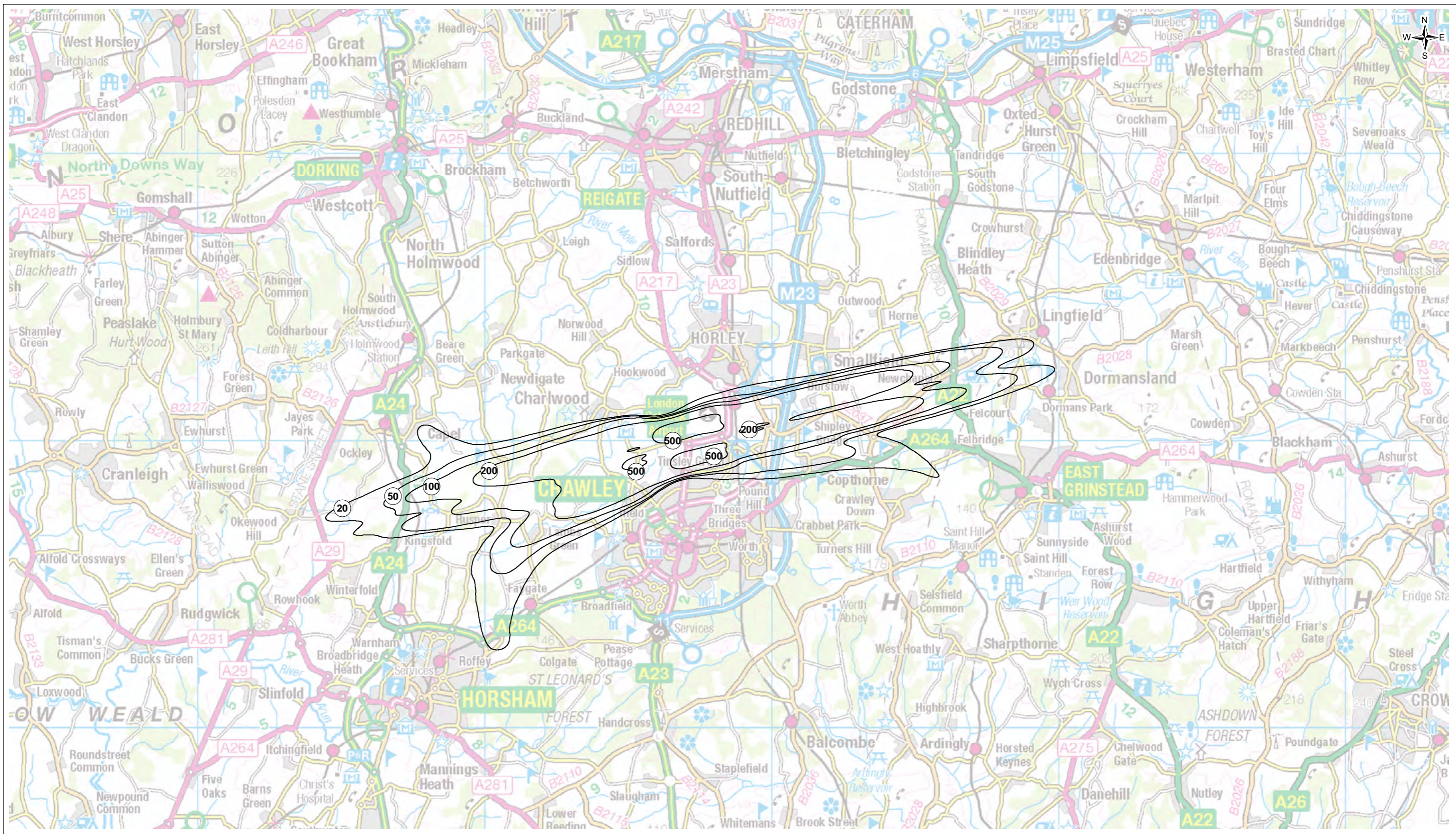
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Legend

— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1040	
Drawing Title		Gatwick Airport 2040 Second Runway 'Carbon Traded' Option L _{Aeq,16h} Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No.							
Drawing No.		B4160007_LNA1040					



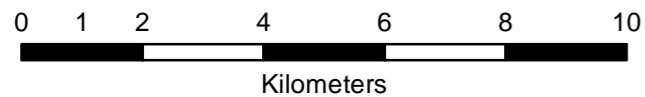
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1041	
Drawing Title		Gatwick Airport 2040 Second Runway 'Carbon Traded' Option N70 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA1041							



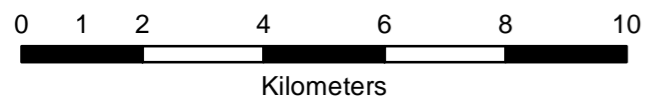
The Noise contours within this Figure were produced by:
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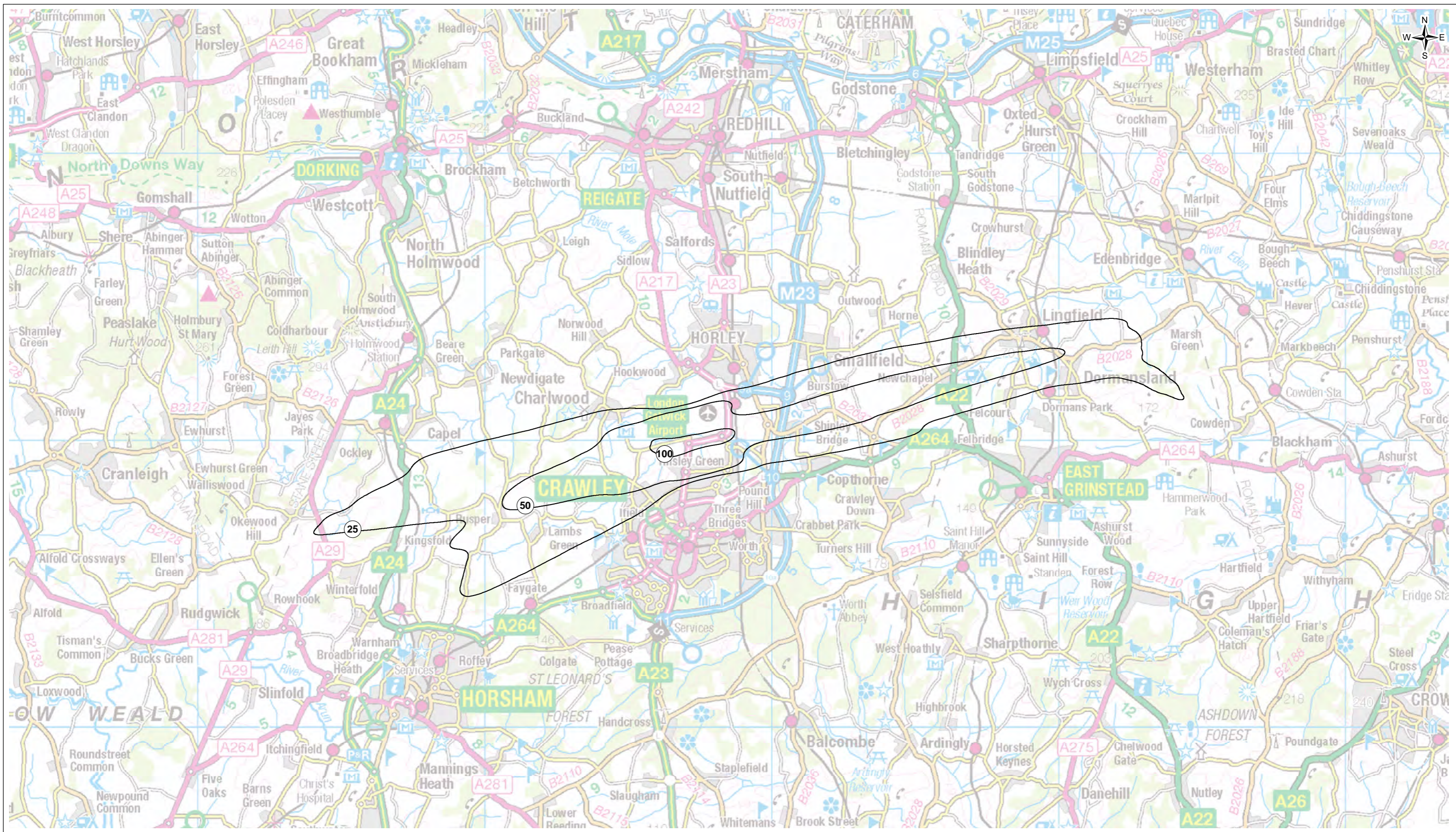
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Legend

— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1042	
Drawing Title		Gatwick Airport 2040 Second Runway 'Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
Jacobs No. B4160007							
Drawing No.		B4160007_LNA1042					



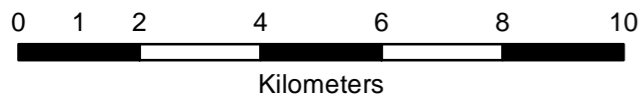
The Noise contours within this Figure were produced by:
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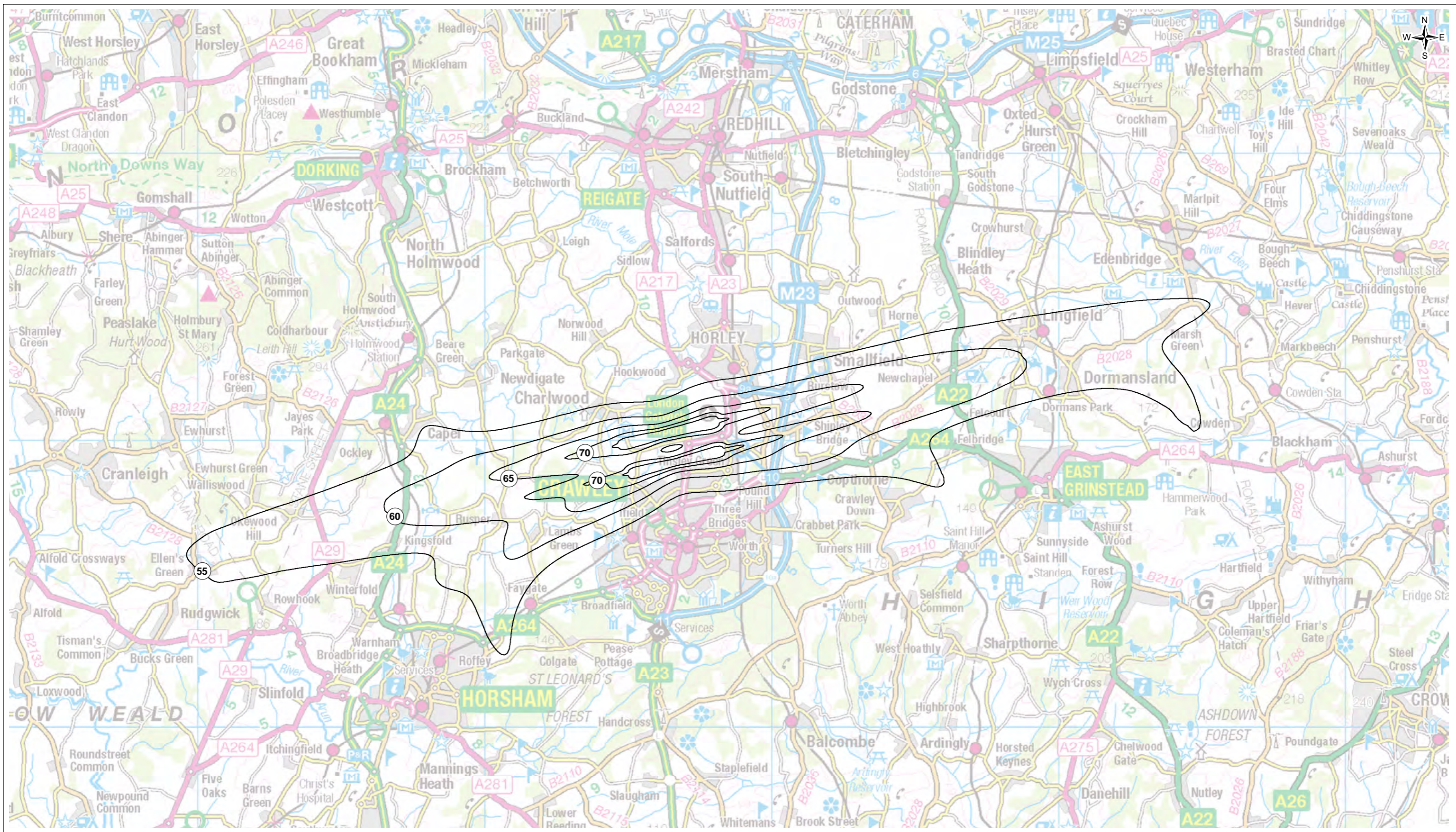
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1043	
Drawing Title		Gatwick Airport 2040 Second Runway 'Carbon Traded' Option N60 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
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Jacobs No. B4160007							
Client No.		DO NOT SCALE				Client	
Drawing No.		B4160007_LNA1043					



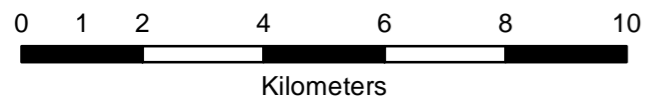
The Noise contours within this Figure were produced by:
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1044	
Drawing Title		Gatwick Airport 2040 Second Runway 'Carbon Traded' Option Lden Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Drawing No.		B4160007_LNA1044				Client Airports Commission	
0	OCT 14	Initial Issue	JA	SW	SW	CT	
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
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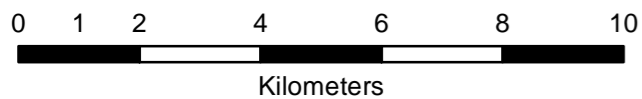
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— $L_{Aeq,16h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1045	
Drawing Title		Gatwick Airport 2050 Second Runway 'Carbon Traded' Option L _{Aeq,16h} Contours				JACOBS	
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Drawing No. B4160007_LNA1045							



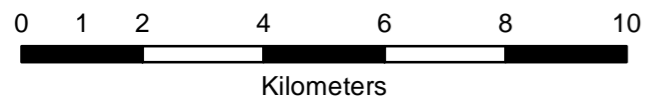
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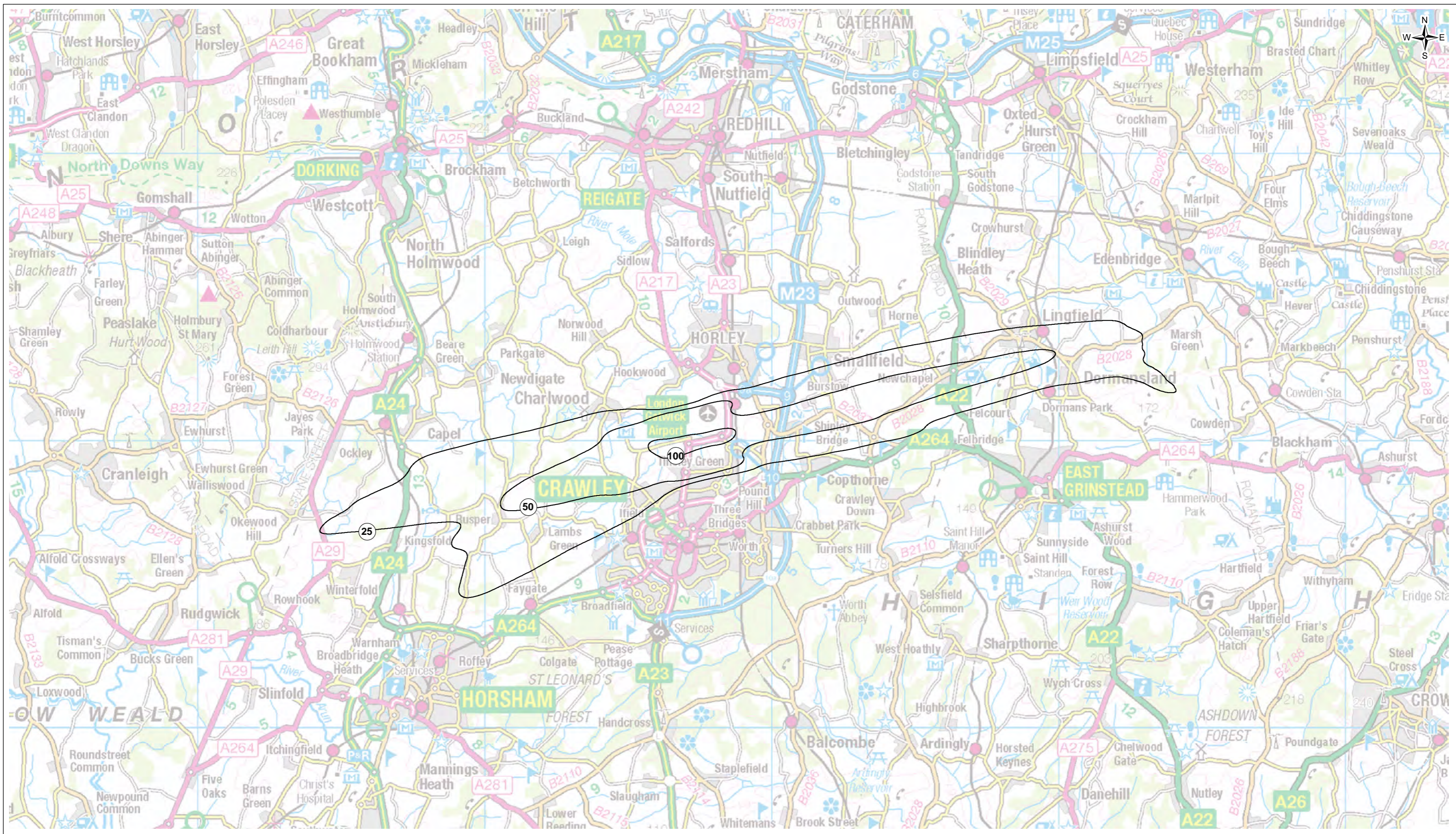
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA1047	
Drawing Title		Gatwick Airport 2050 Second Runway 'Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA1047					



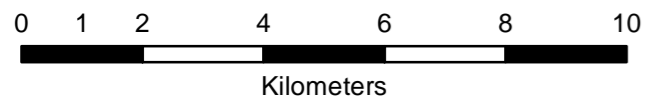
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— N60



Project
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LOCAL NOISE ASSESSMENT**

FIGURE LNA1048

Drawing Title
Gatwick Airport
2050 Second Runway 'Carbon Traded' Option
N60 Contours



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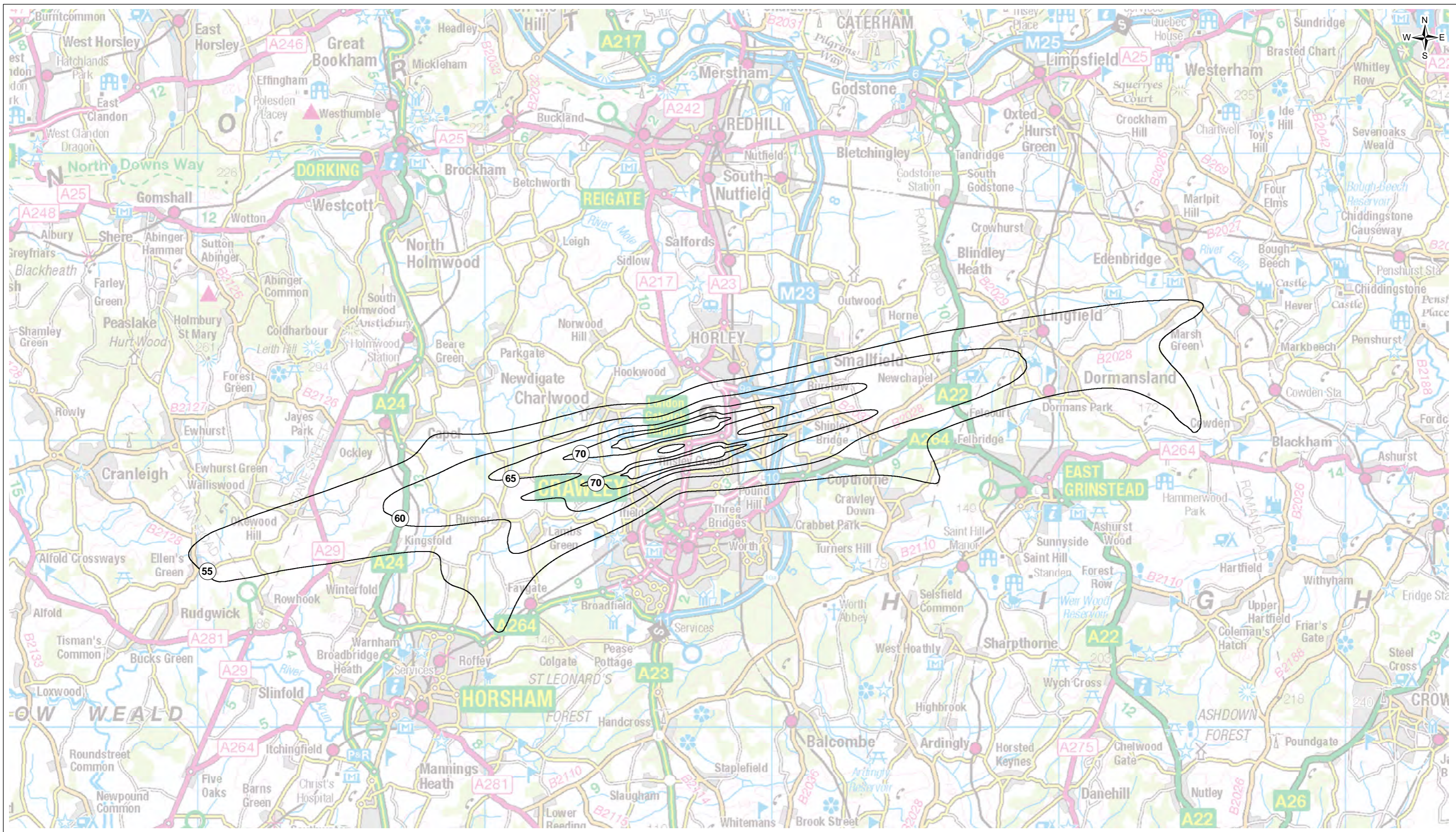
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Jacobs No. B4160007

Client No.

Drawing No. B4160007_LNA1048





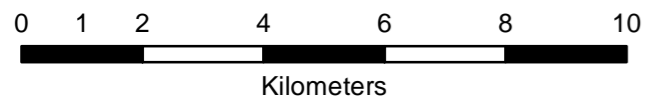
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— L_{den} dB



Project
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LOCAL NOISE ASSESSMENT**

FIGURE LNA1049

Drawing Title
Gatwick Airport
2050 Second Runway 'Carbon Traded' Option
Lden Contours



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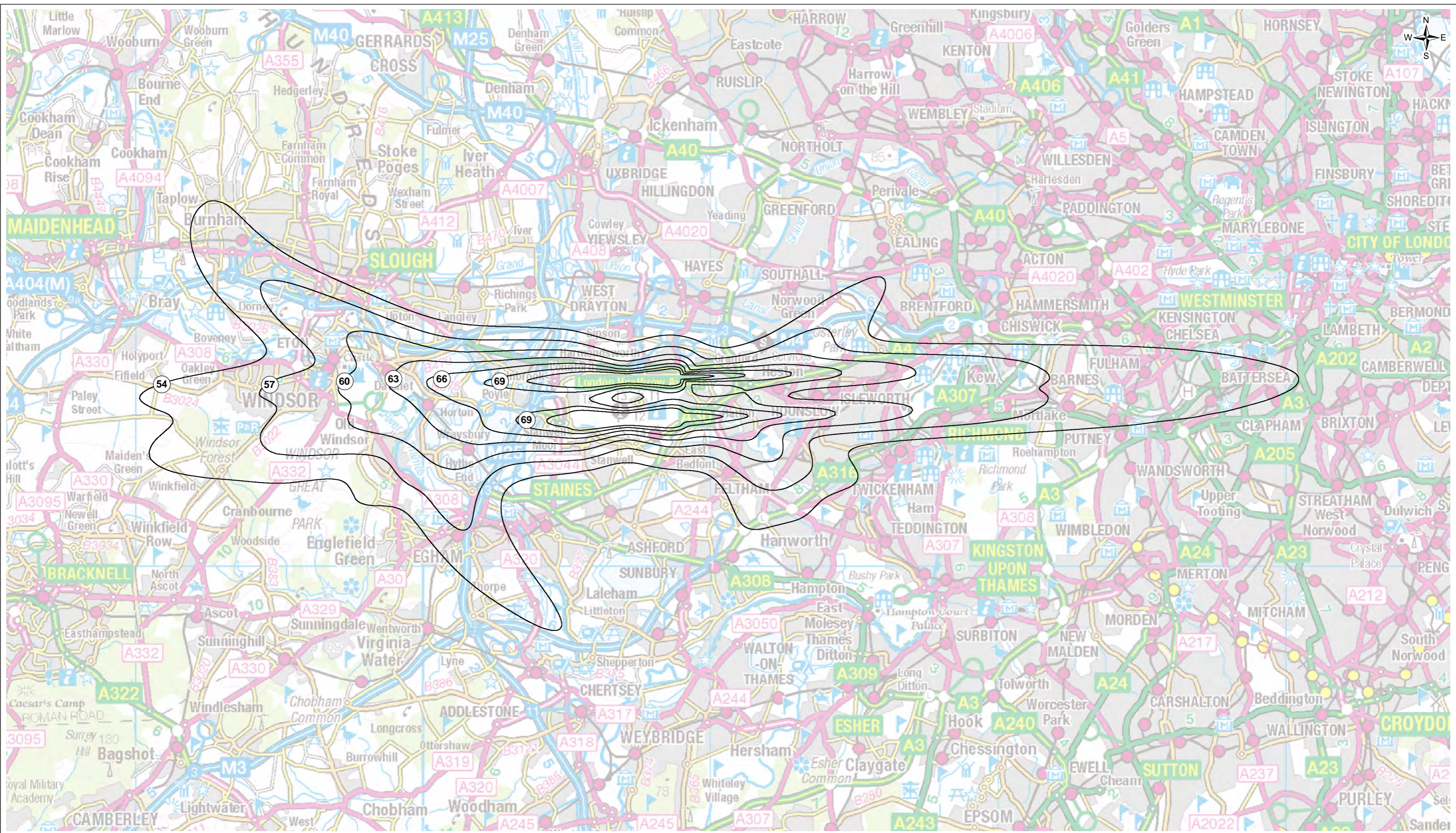
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Jacobs No. B4160007

Client No.

Drawing No. B4160007_LNA1049





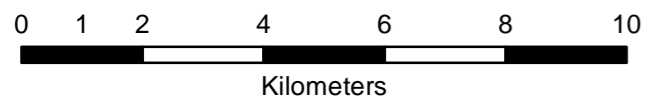
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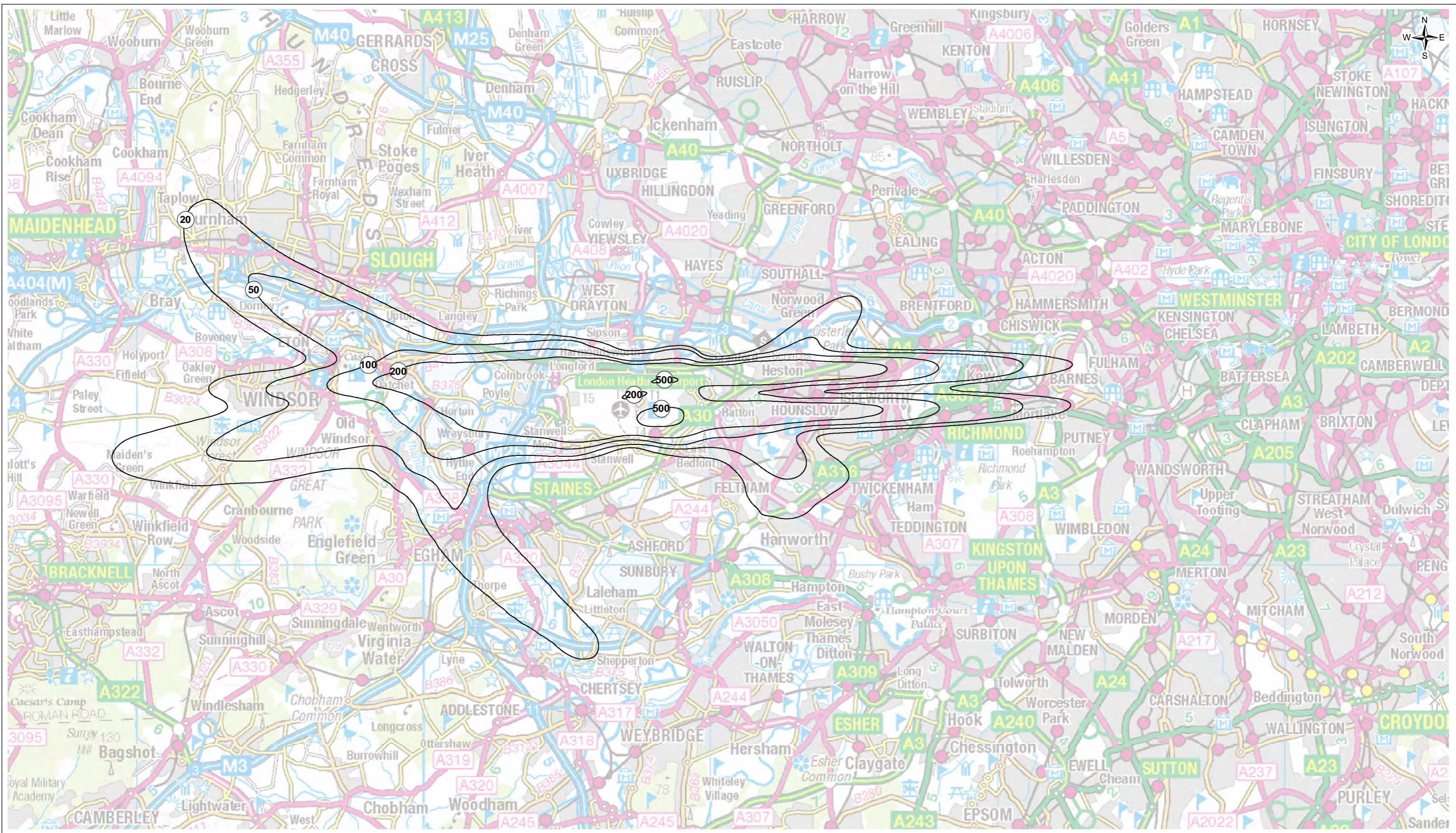
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— L_{Aeq,16h} dB



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Drawing Title		Heathrow Airport 2013 Current Scenario L _{Aeq,16h} Contours				JACOBS	
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Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA2000					



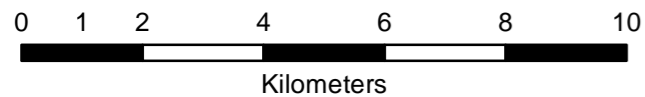
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FIGURE LNA2001

Drawing Title
**Heathrow Airport
2013 Current Scenario
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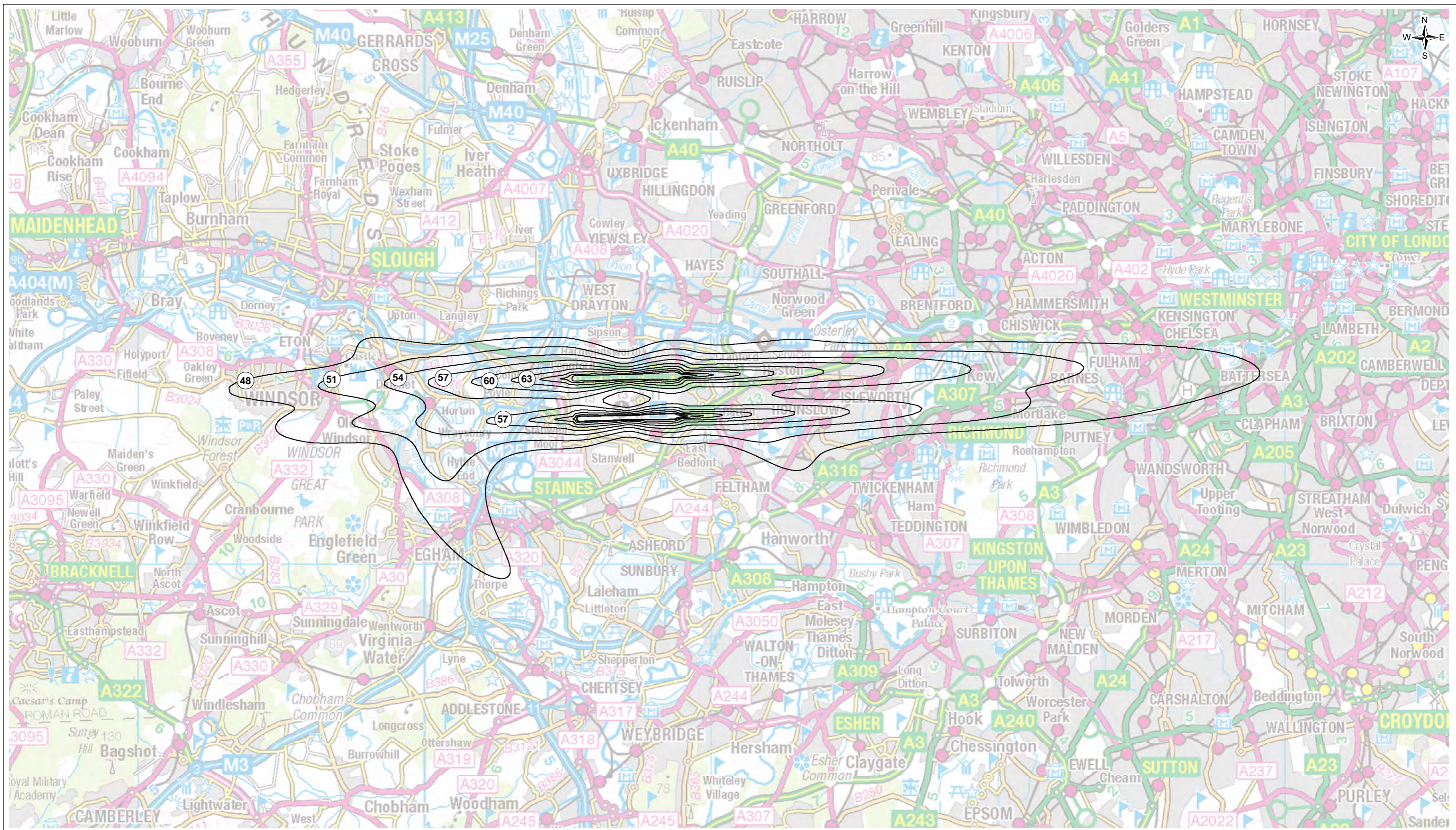
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Client No.

Drawing No. B4160007_LNA2001





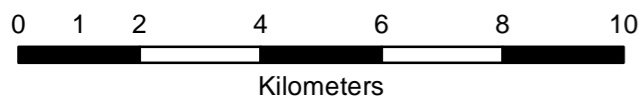
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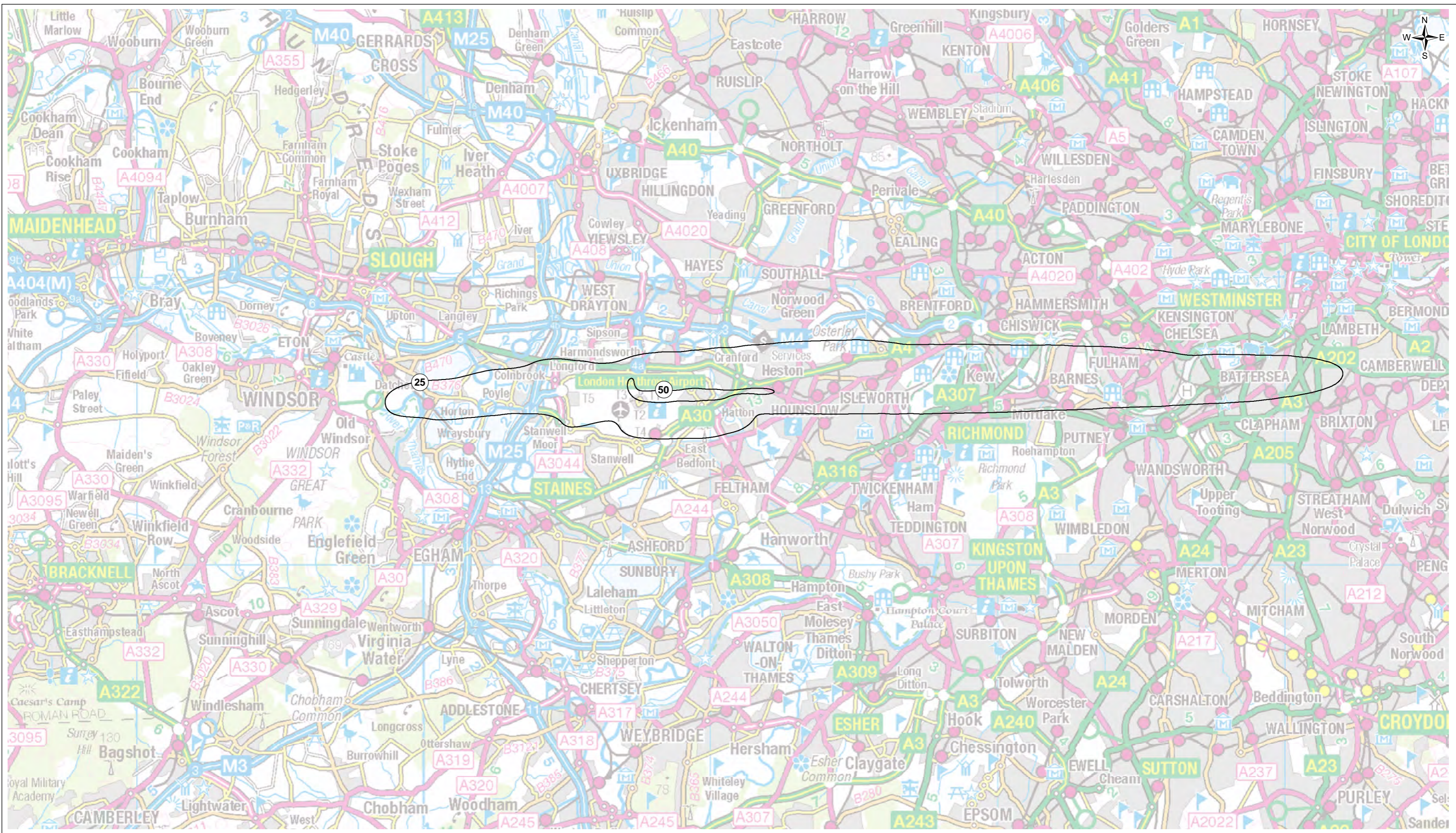
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2002	
Drawing Title		Heathrow Airport 2013 Current Scenario L _{Aeq,8h} Contours				JACOBS	
0		OCT 14	Initial Issue	JA	SW	SW	CT
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Jacobs No.		B4160007					
Client No.							
Drawing No.		B4160007_LNA2002					
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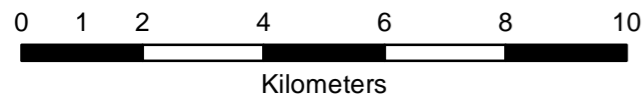
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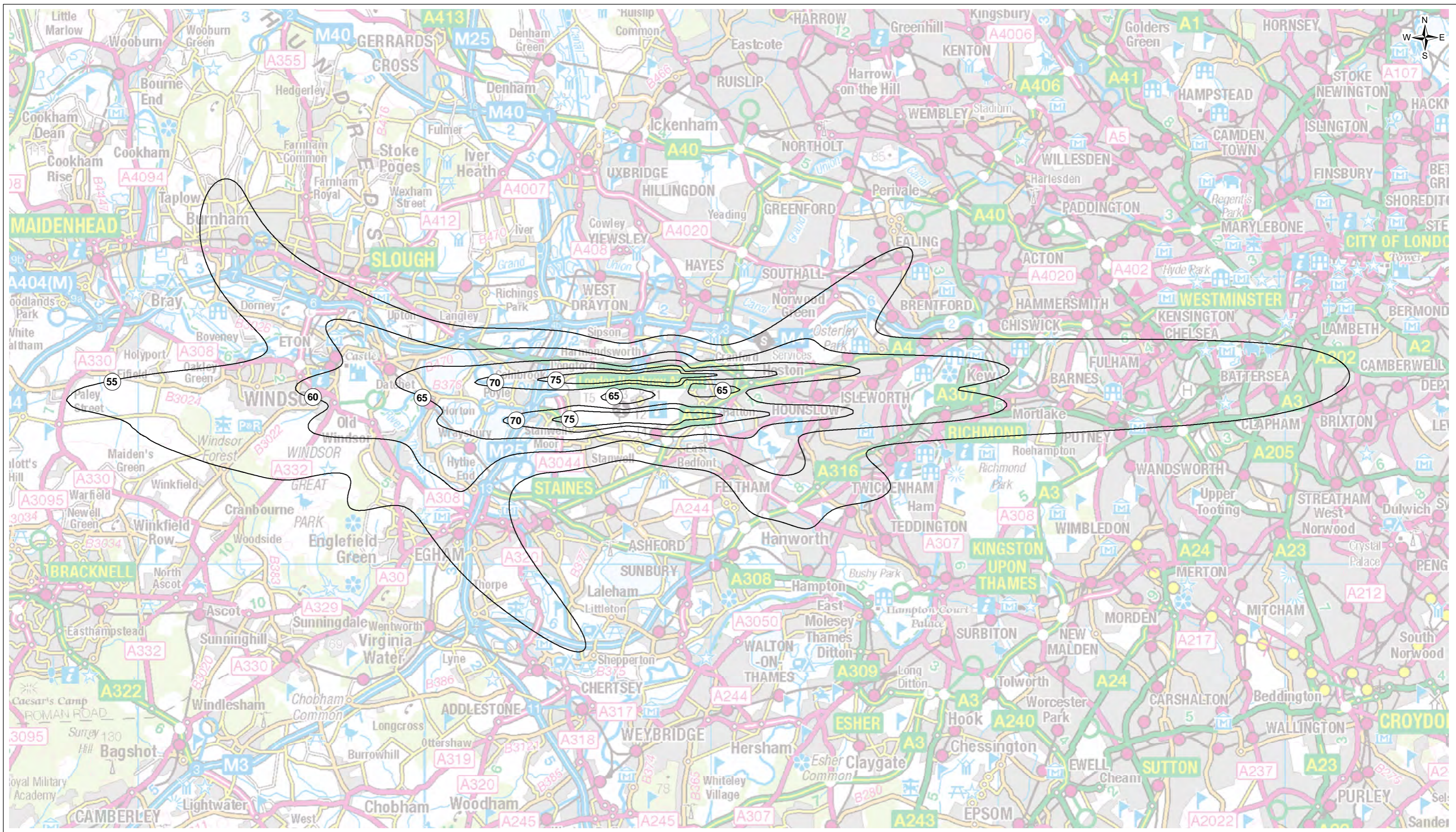
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2003	
Drawing Title		Heathrow Airport 2013 Current Scenario N60 Contours				JACOBS	
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Jacobs No. B4160007							
Drawing No. B4160007_LNA2003							



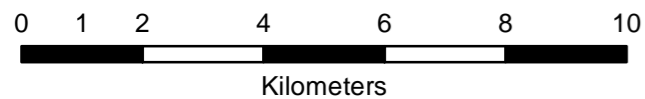
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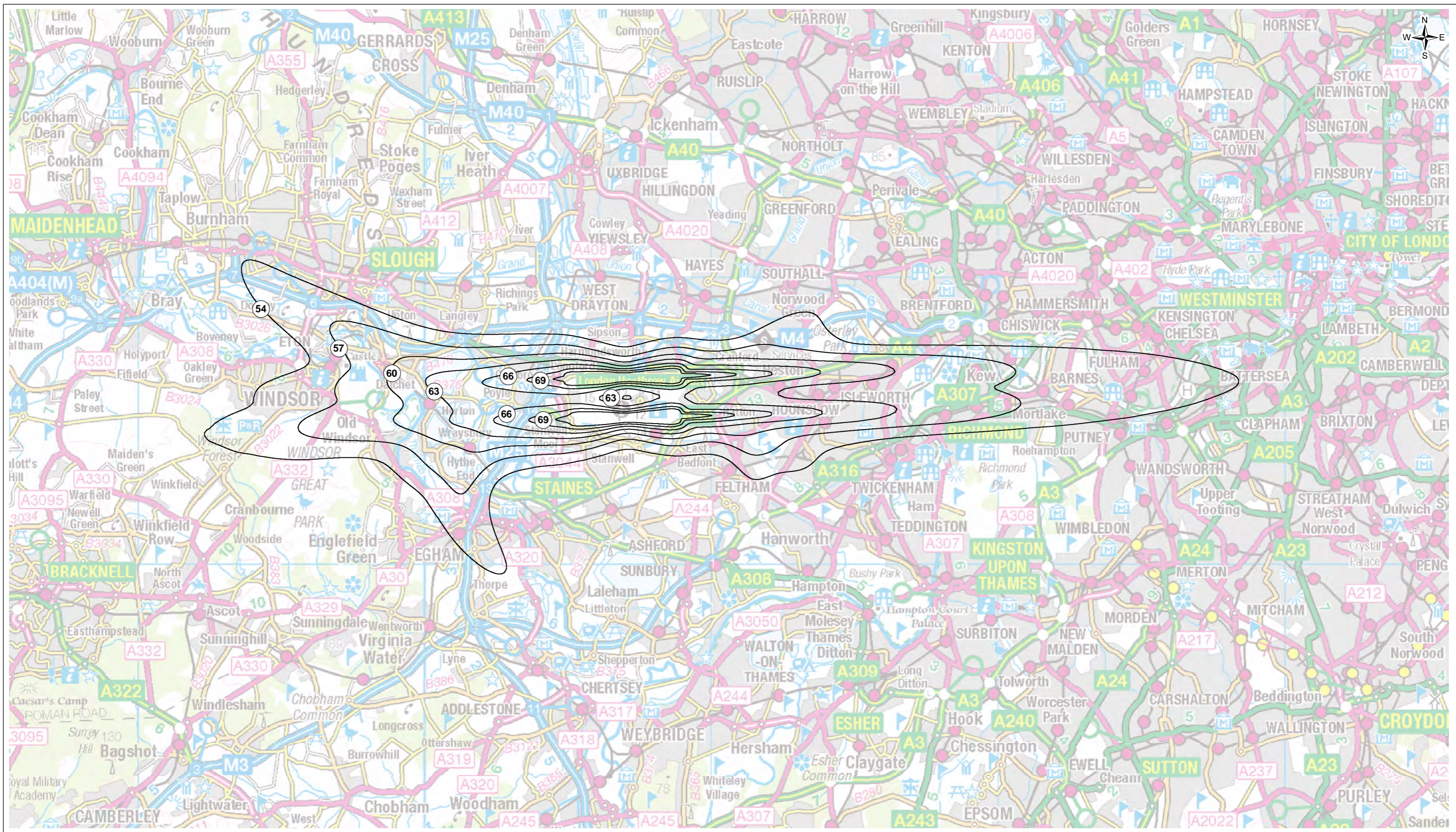
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2004	
Drawing Title		Heathrow Airport 2011 Current Scenario Lden Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Drawing No. B4160007		Client					
Drawing No. B4160007_LNA2004							



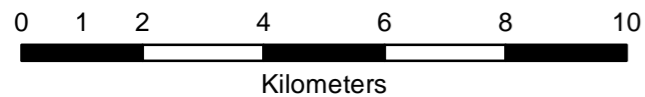
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— L_{Aeq,16h} dB



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FIGURE LNA2005

Drawing Title
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L_{Aeq,16h} Contours**



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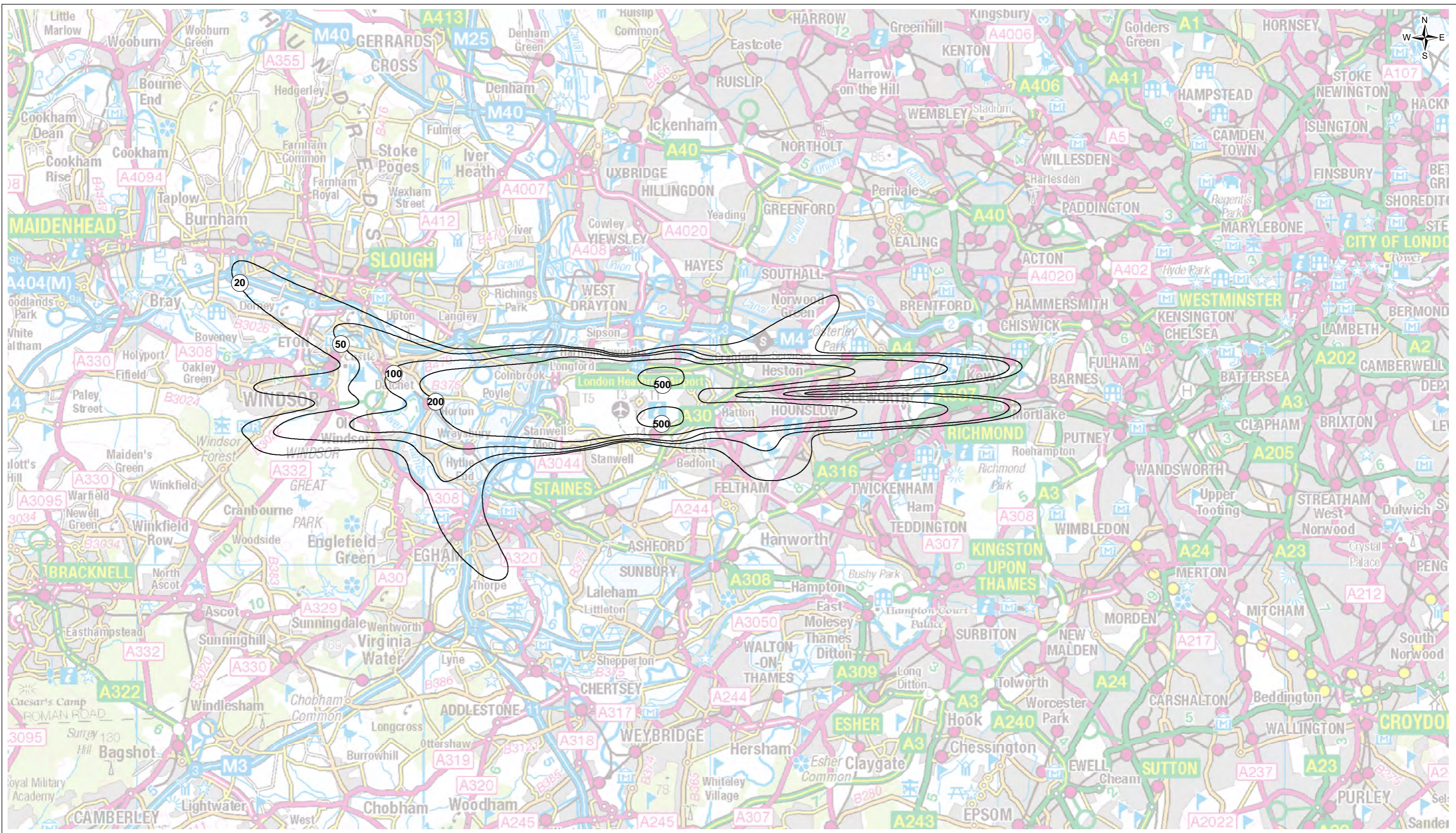
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Client No.

Drawing No. B4160007_LNA2005





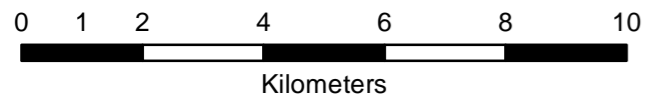
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FIGURE LNA2006

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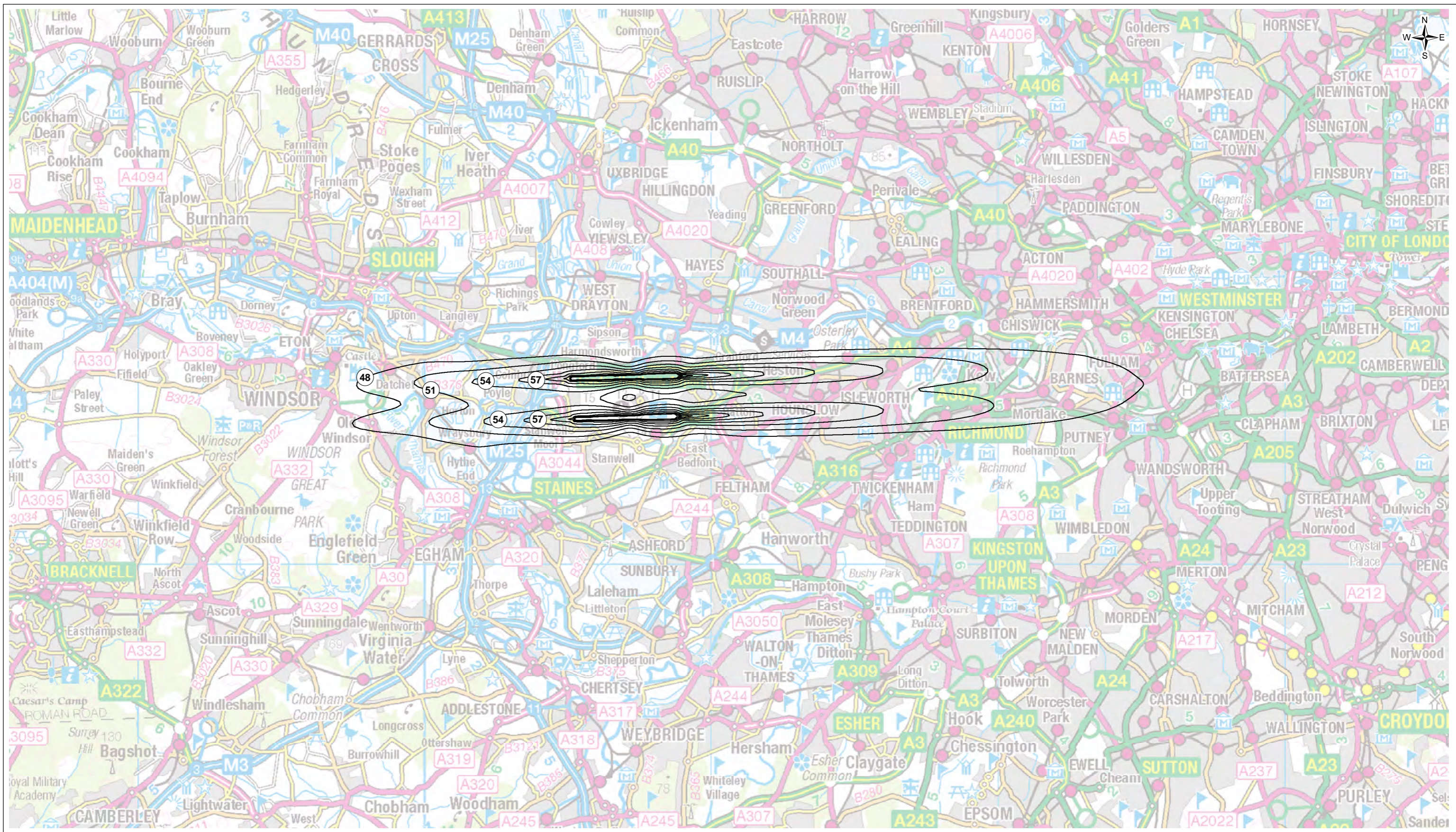
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Client No.

Drawing No. B4160007_LNA2006





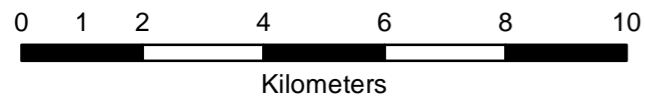
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FIGURE LNA2007

Drawing Title
**Heathrow Airport
2030 Do-Minimum Scenario
 $L_{Aeq,8h}$ Contours**



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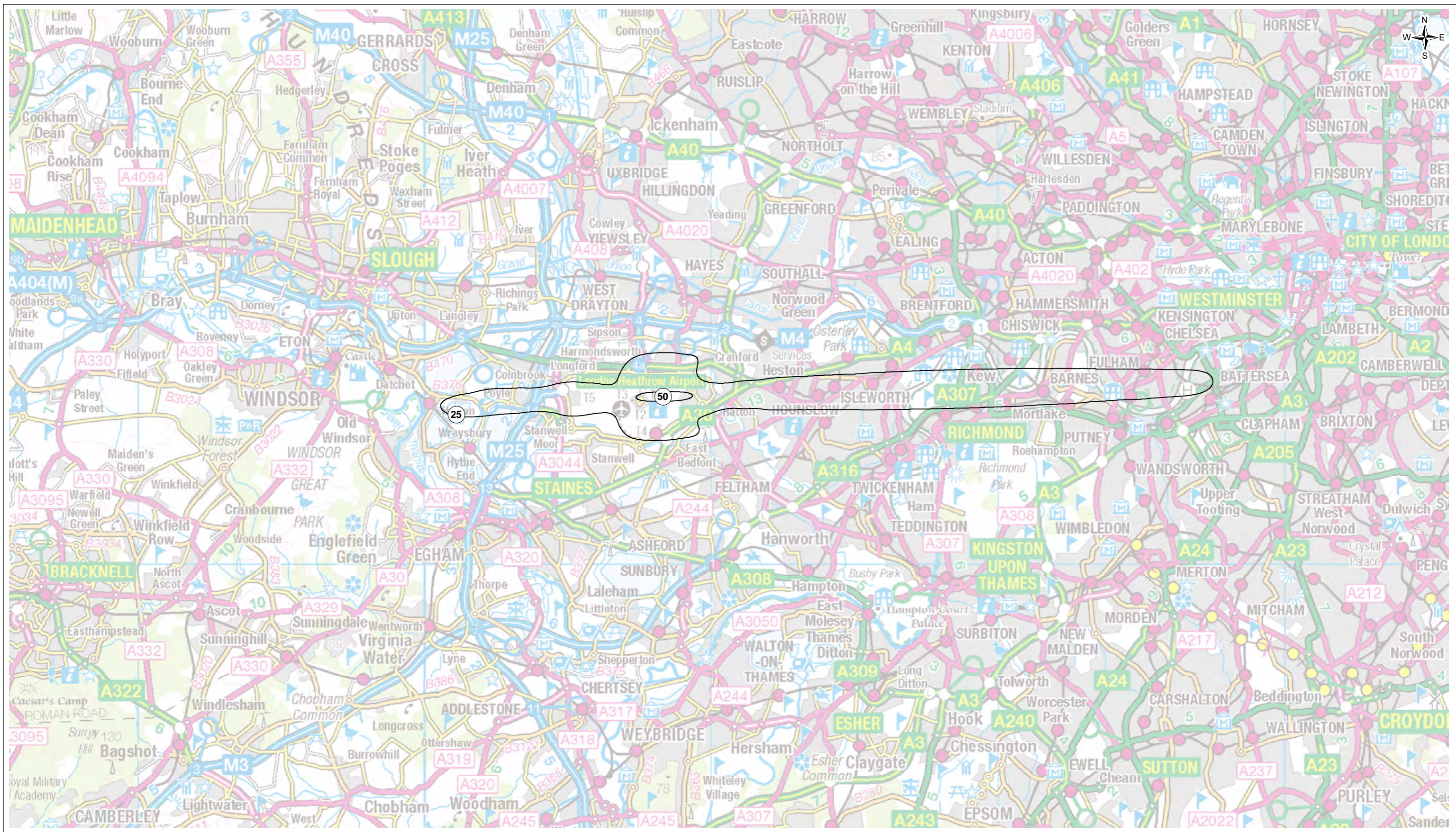
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Drawing No. B4160007_LNA2007





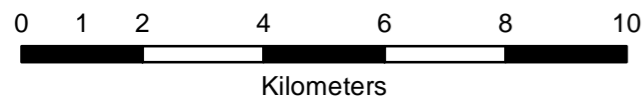
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FIGURE LNA2008

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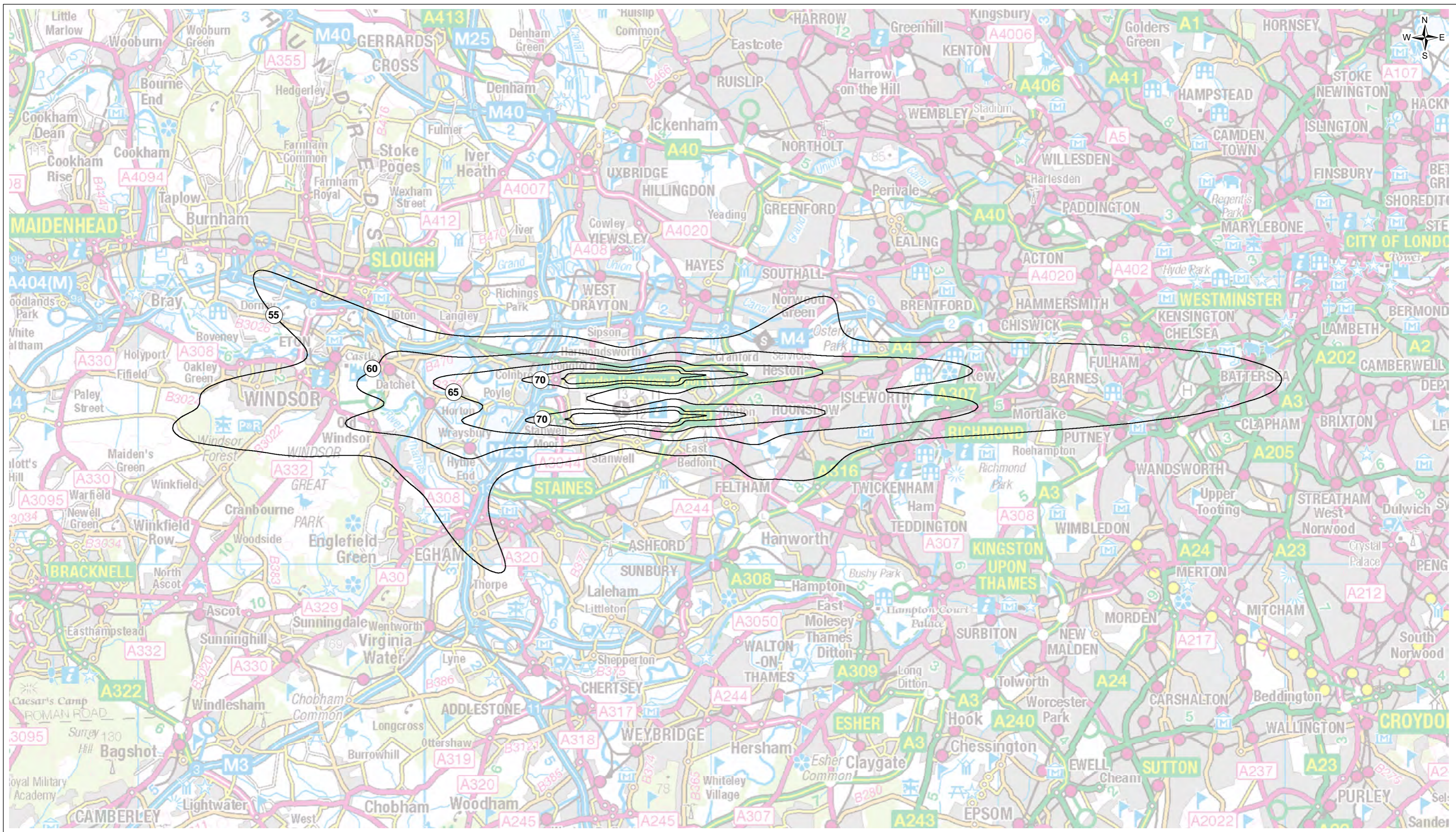
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Drawing No. B4160007_LNA2008





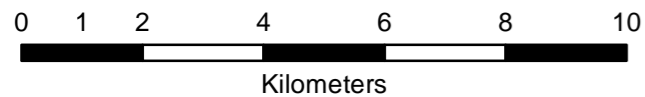
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— L_{den} dB



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FIGURE LNA2009

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Lden Contours**



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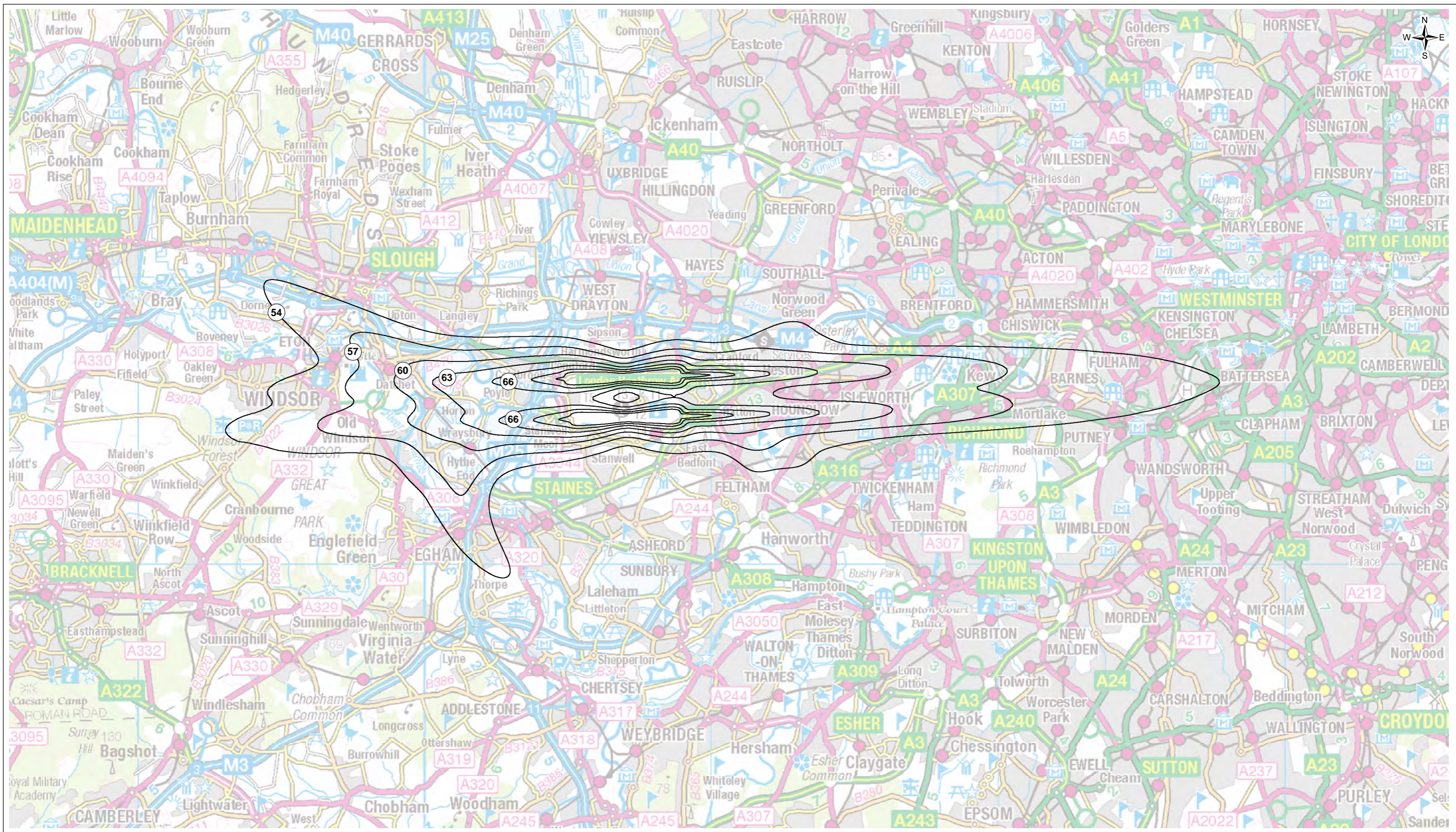
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Client No.

Drawing No. B4160007_LNA2009





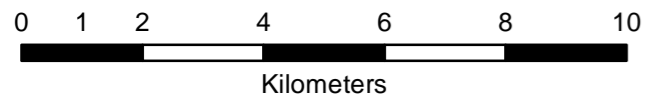
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— $L_{Aeq,16h}$ dB



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FIGURE LNA2010

Drawing Title
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L_{Aeq,16h} Contours**



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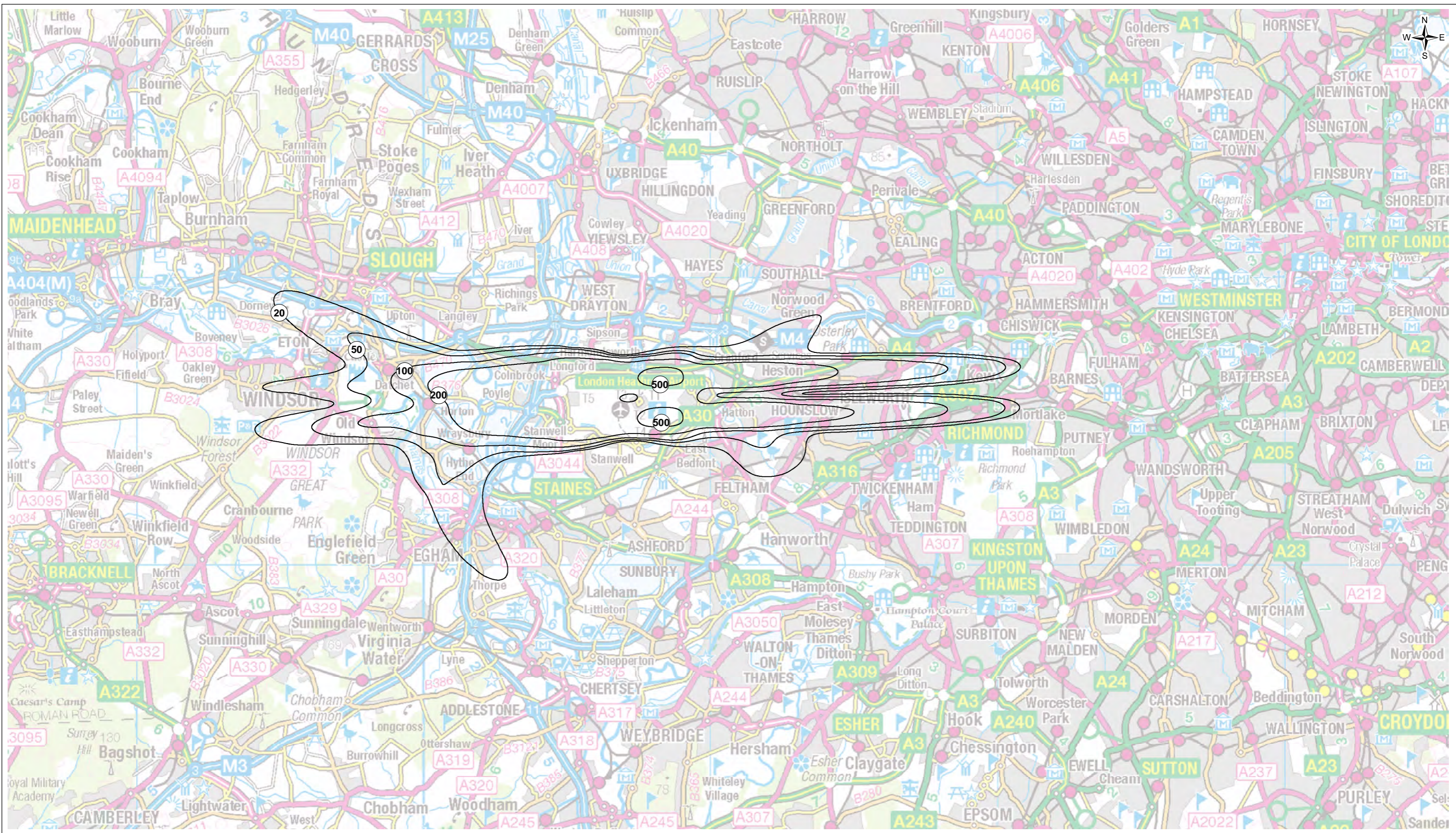
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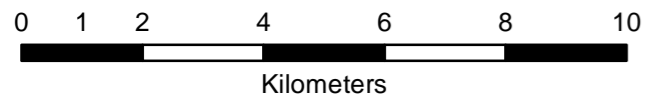
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FIGURE LNA2011

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N70 Contours**



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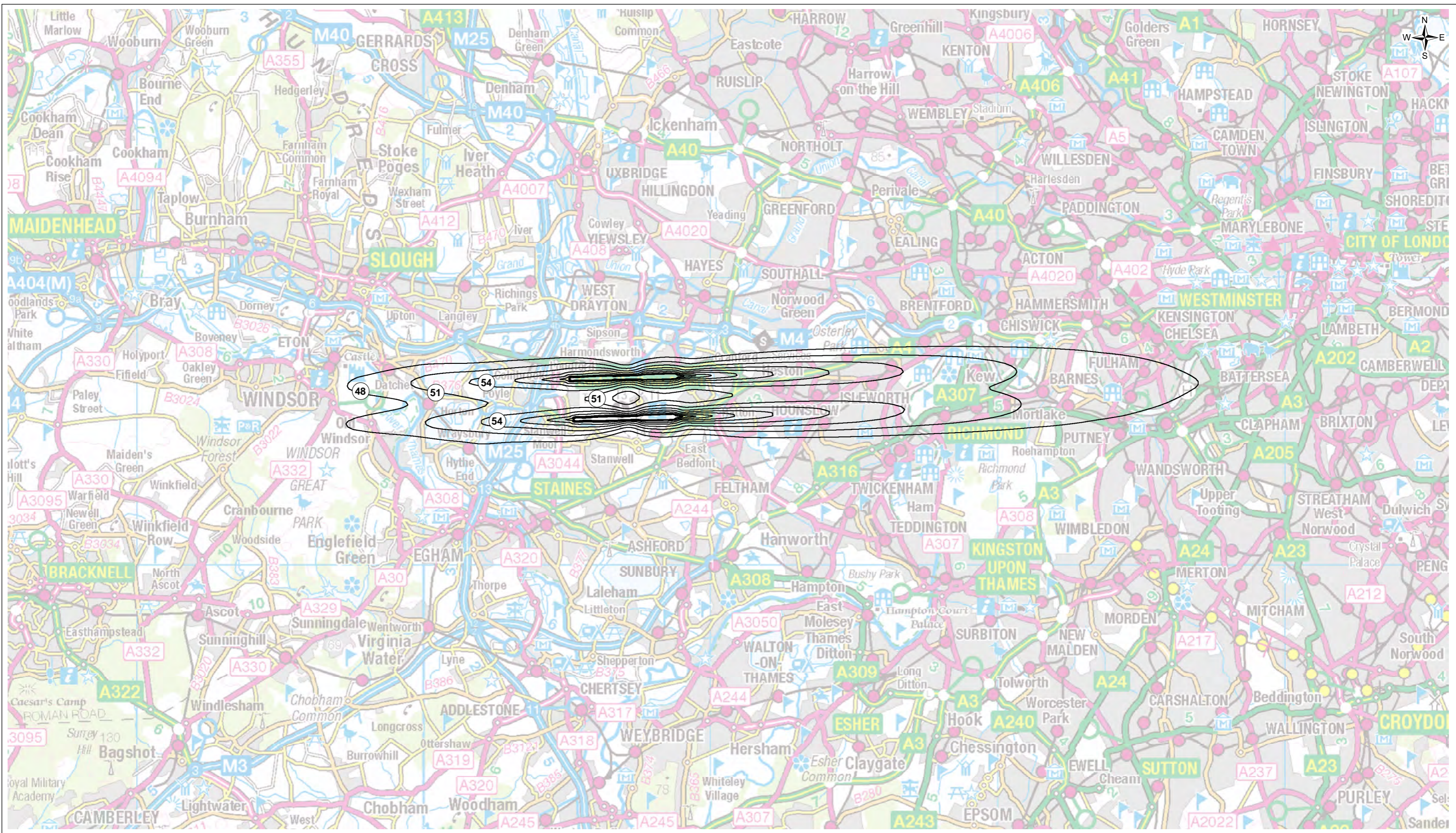
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Client No.

Drawing No. B4160007_LNA2011





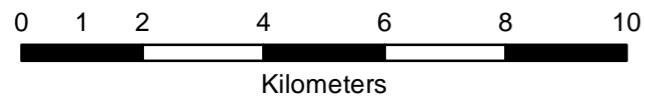
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— L_{Aeq,8h} dB



Project
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FIGURE LNA2012

Drawing Title
**Heathrow Airport
2040 Do-Minimum Scenario
L_{Aeq,8h} Contours**



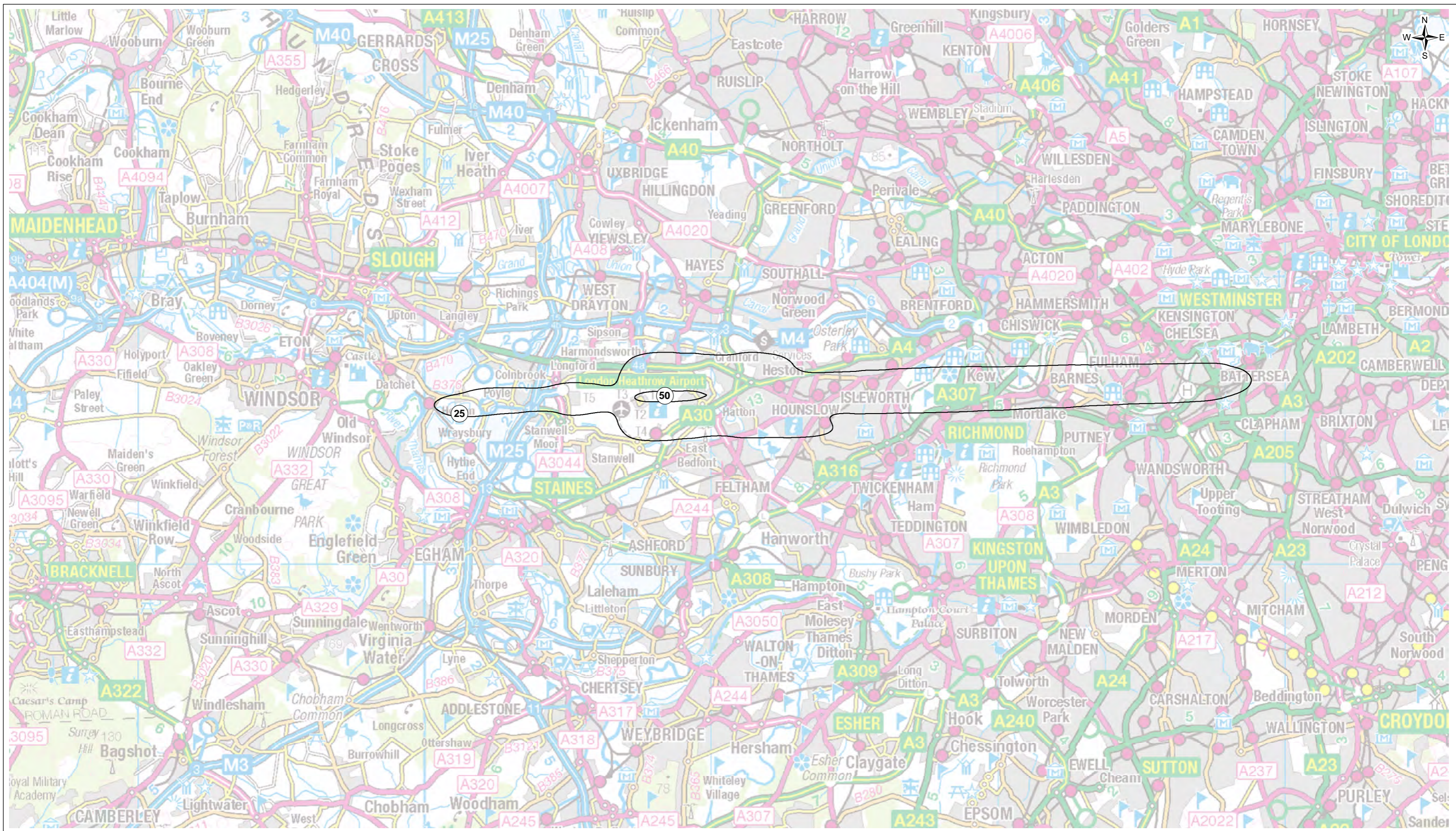
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Drawing No. B4160007_LNA2012





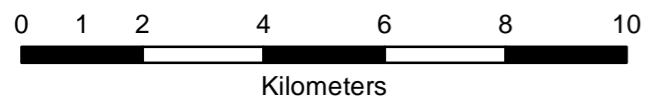
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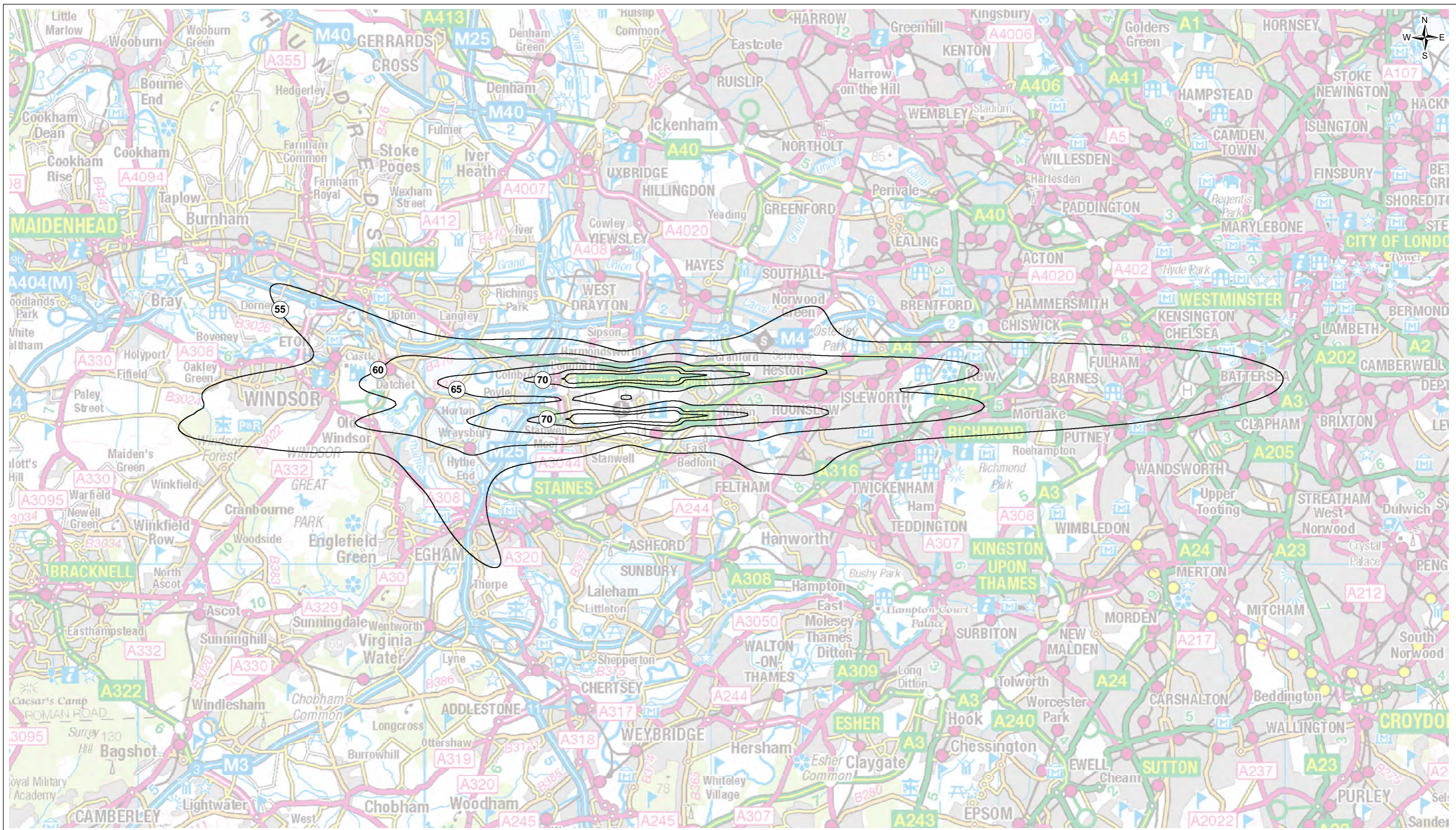
— N60



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Drawing Title		Heathrow Airport 2040 Do-Minimum Scenario N60 Contours			
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Drawing No.		B4160007_LNA2013			

FIGURE LNA2013

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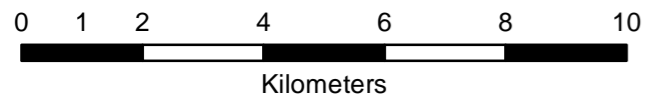
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LOCAL NOISE ASSESSMENT**

FIGURE LNA2014

Drawing Title
**Heathrow Airport
2040 Do-Minimum Scenario
Lden Contours**



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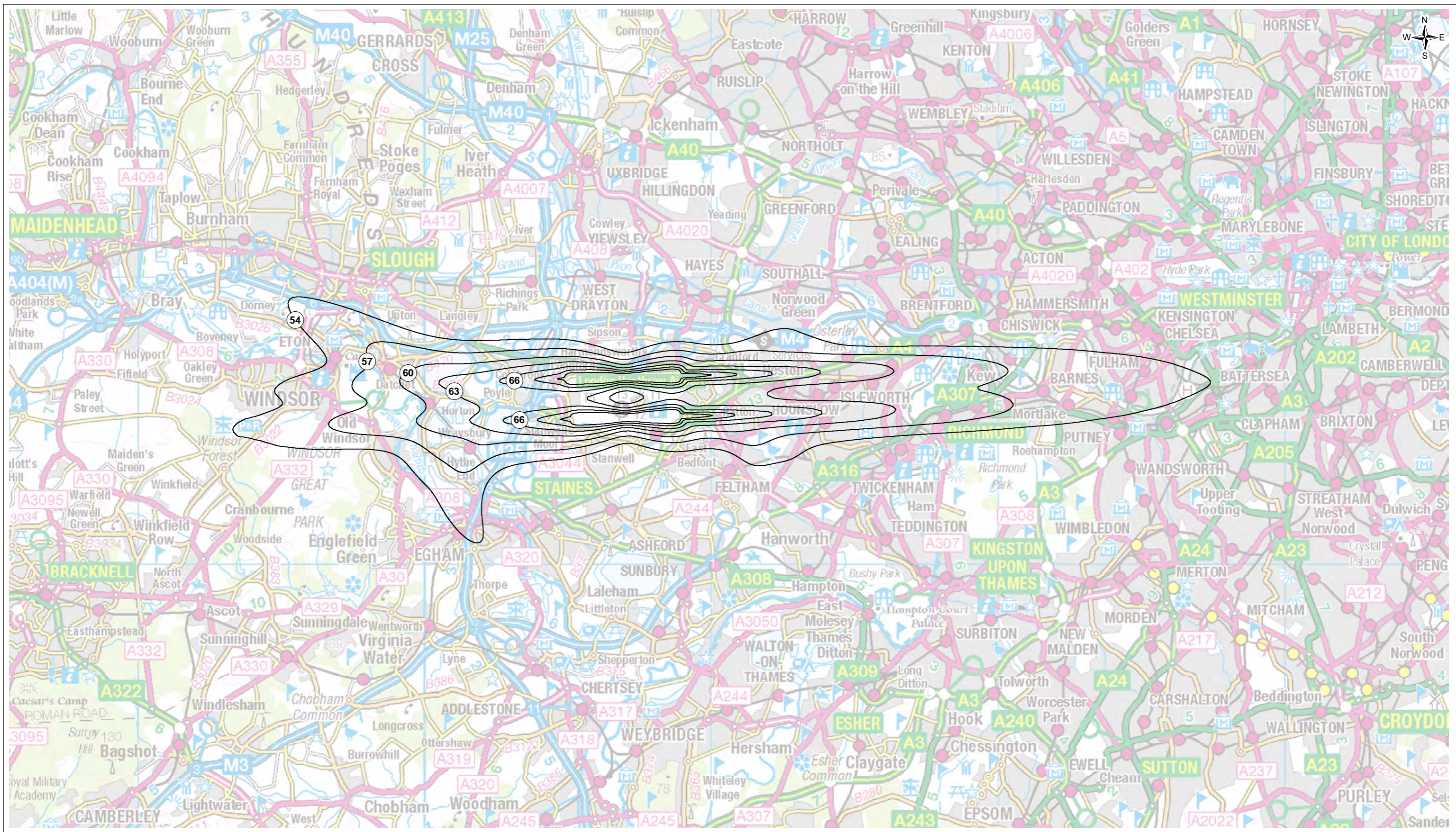
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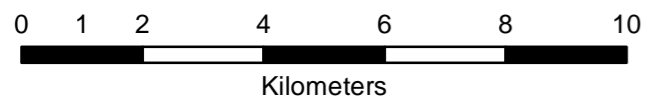
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Legend

— L_{Aeq,16h} dB



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FIGURE LNA2015

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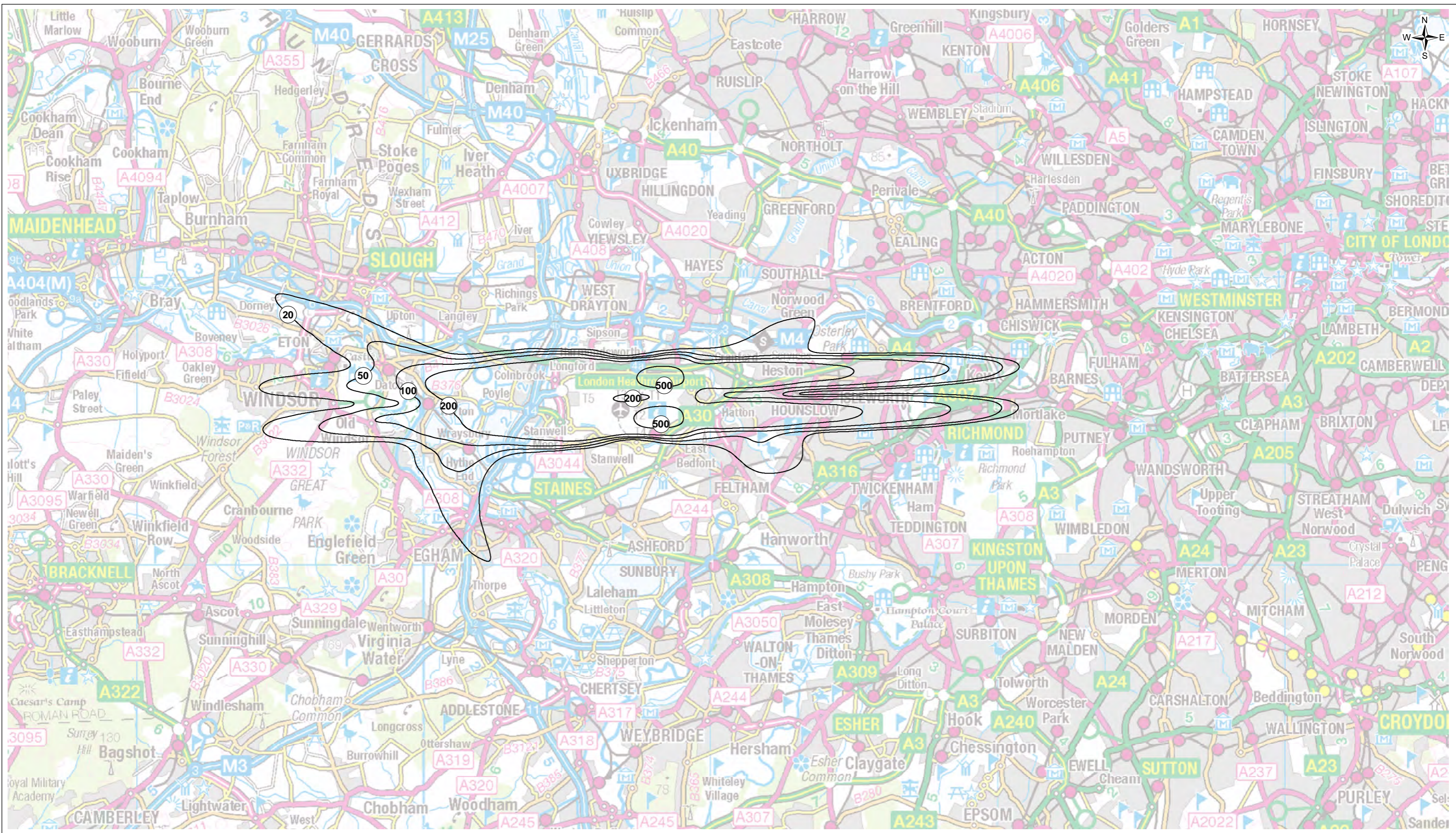
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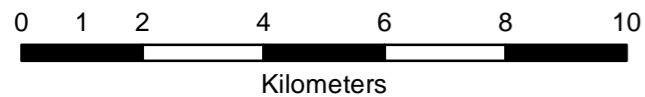
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— N70



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FIGURE LNA2016

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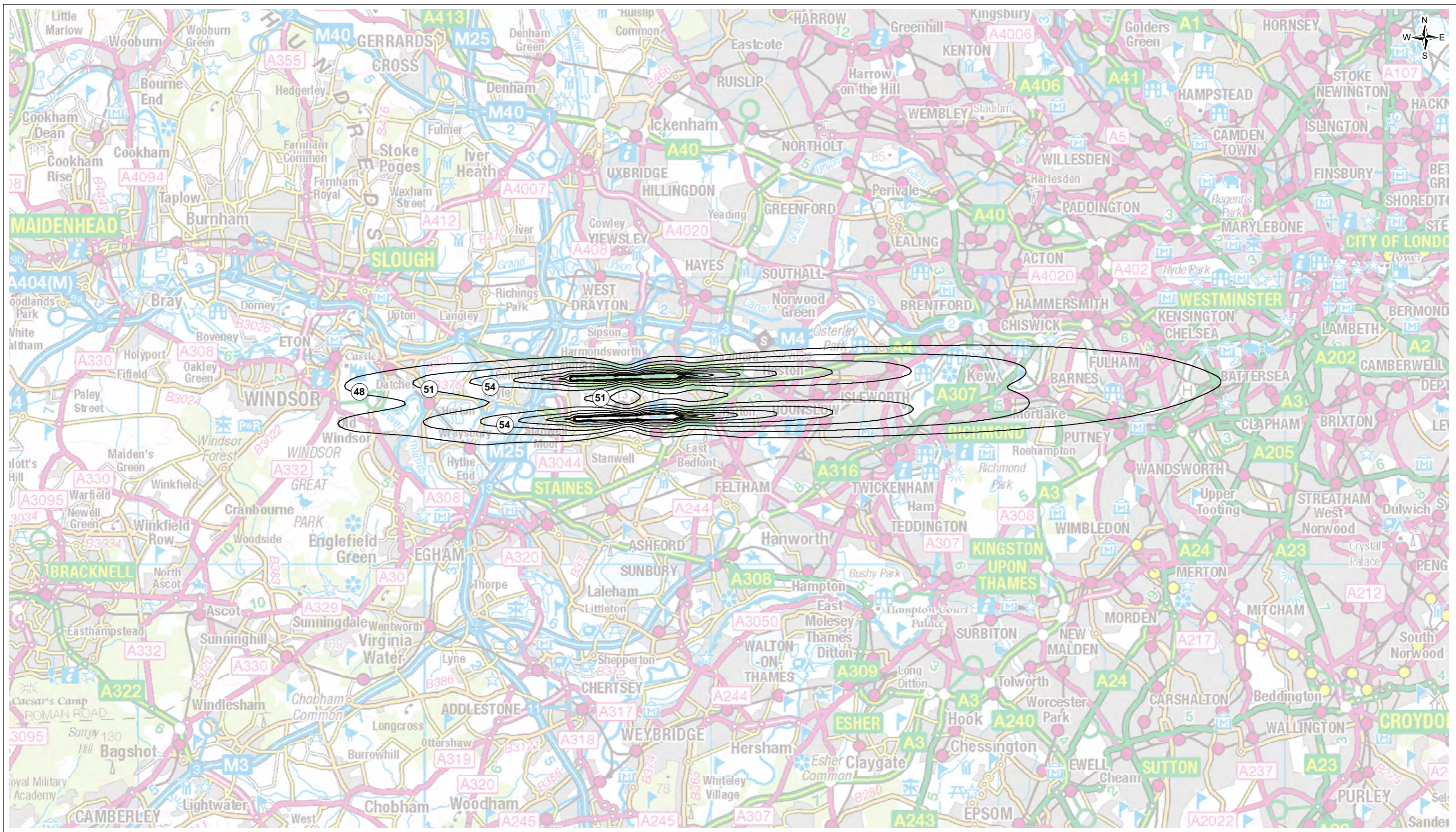
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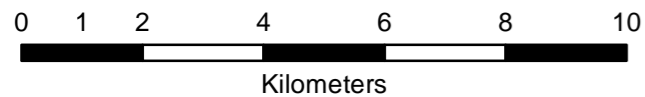
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— $L_{Aeq,8h}$ dB



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FIGURE LNA2017

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2050 Do-Minimum Scenario
 $L_{Aeq,8h}$ Contours**



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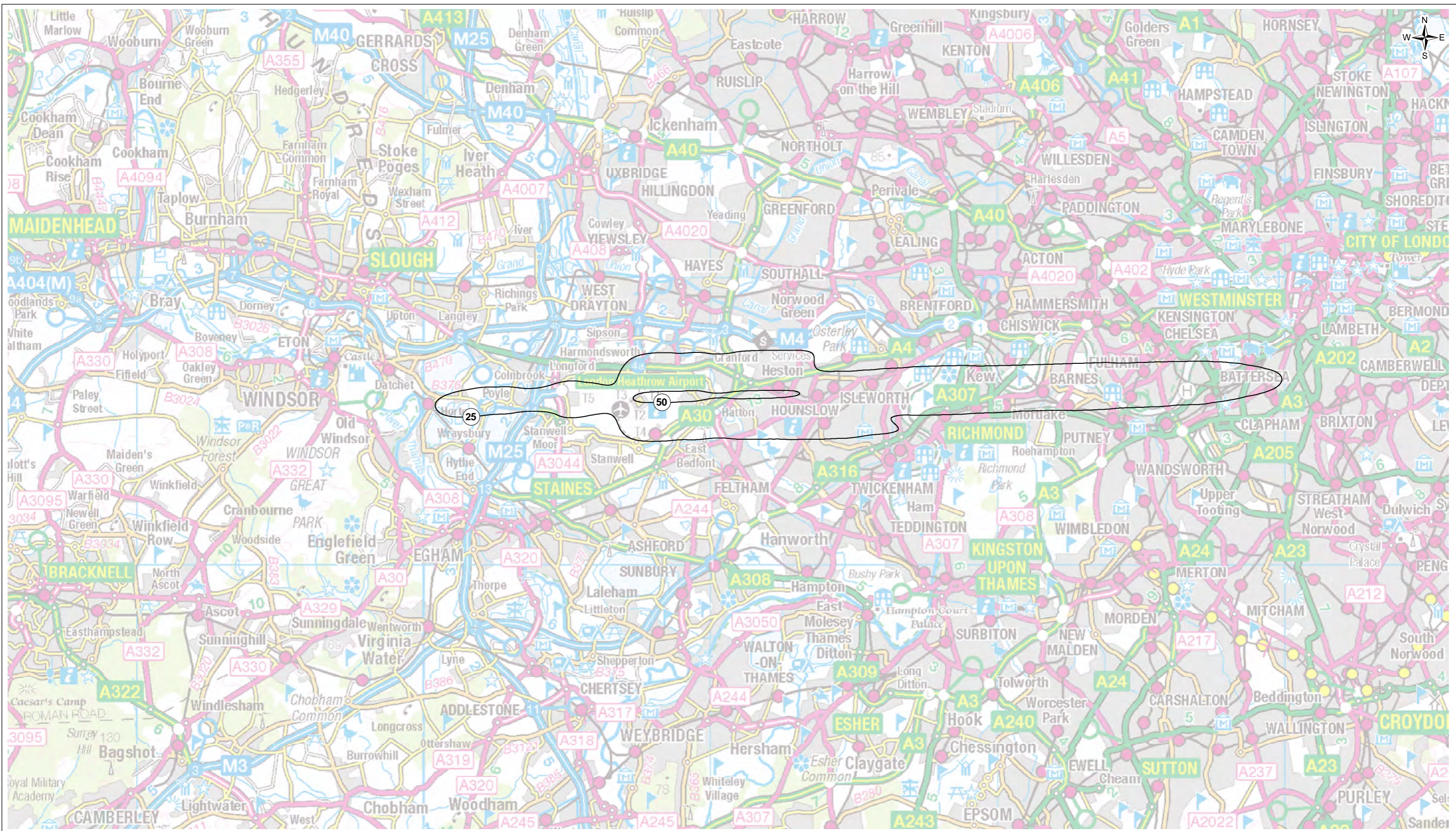
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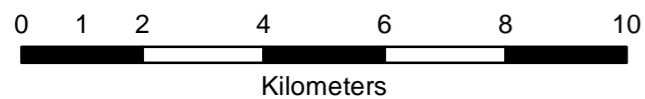
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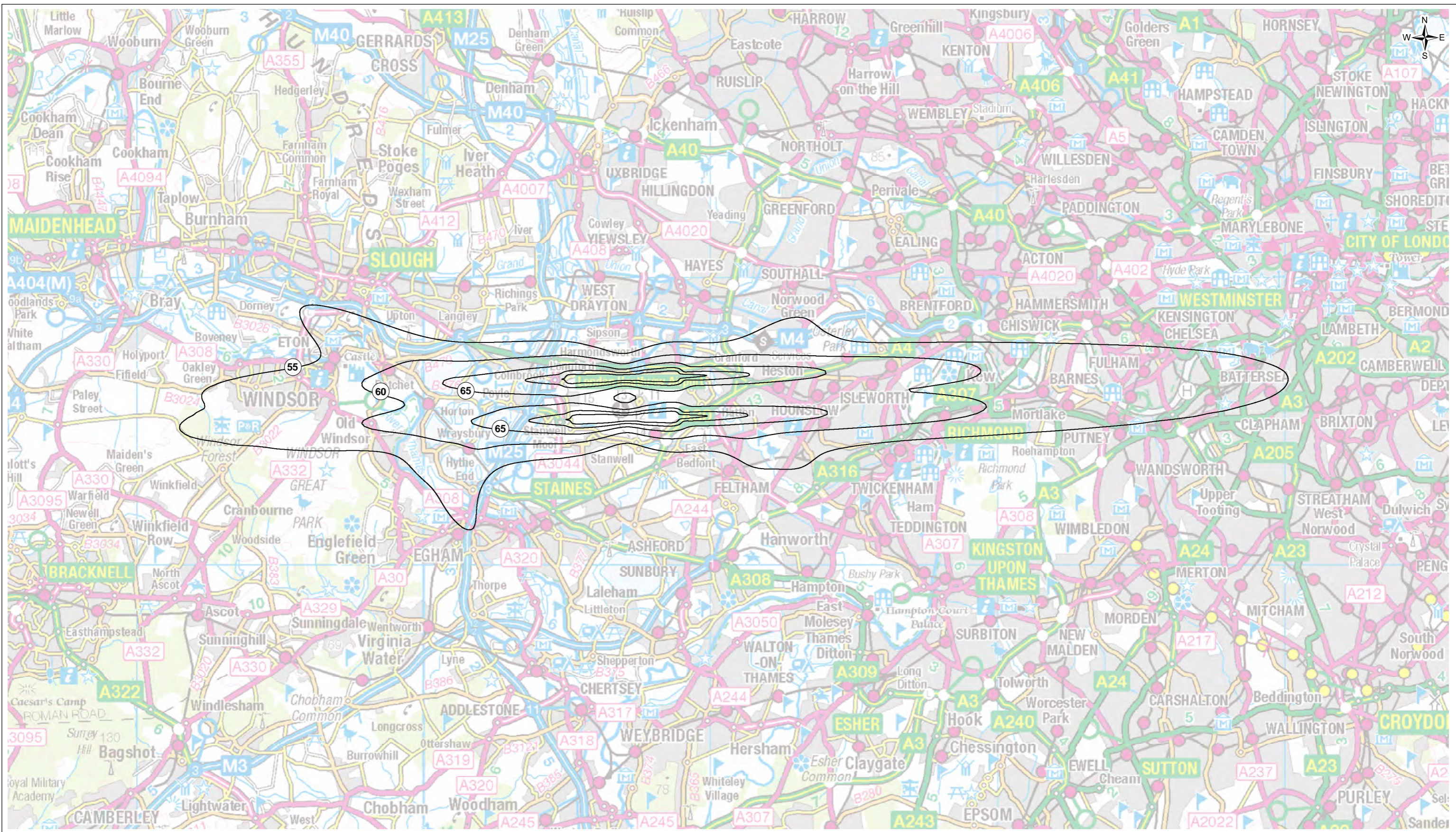
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— N60



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Drawing No. B4160007_LNA2018							



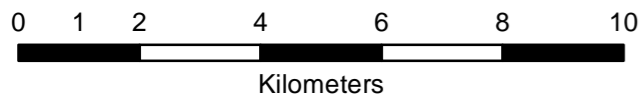
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— L_{den} dB



Project
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FIGURE LNA2019

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Lden Contours**



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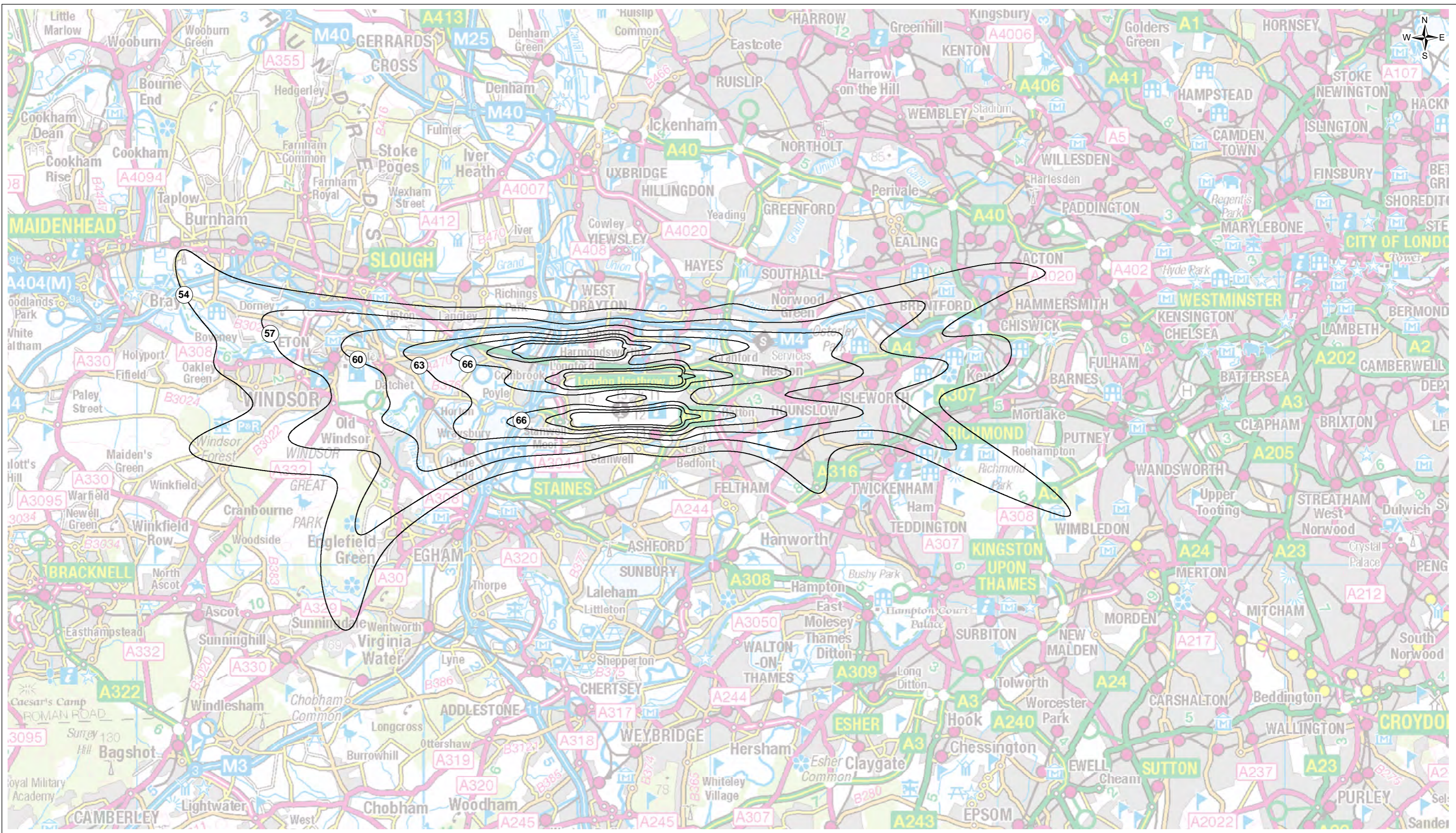
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Drawing No. B4160007_LNA2019





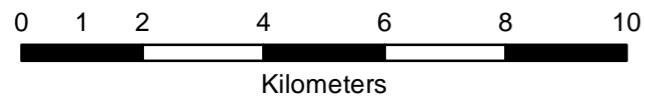
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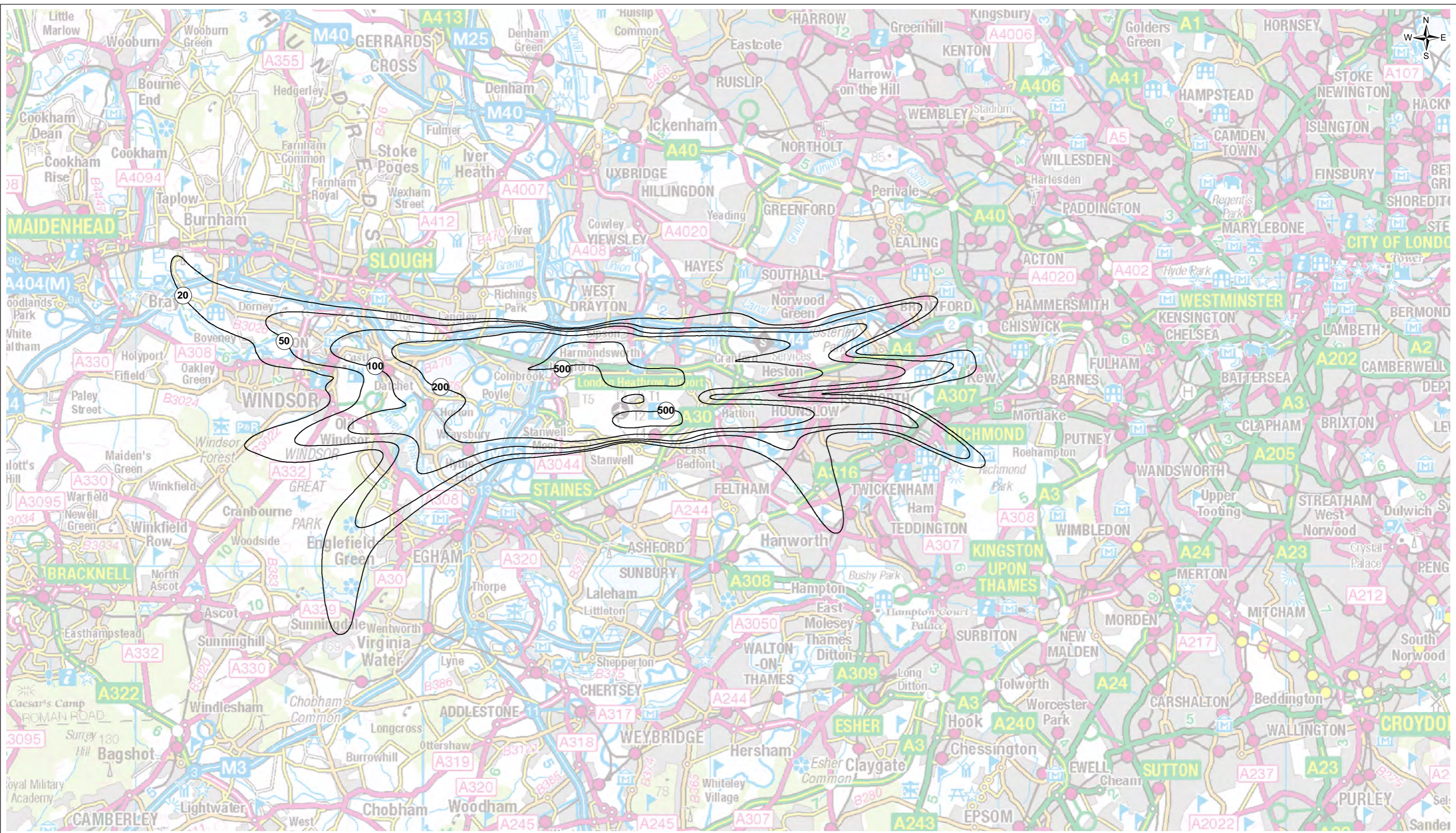
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2020	
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Drawing No.		B4160007_LNA2020					
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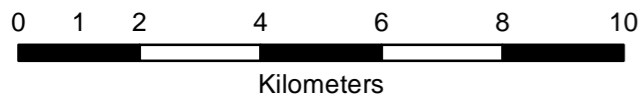
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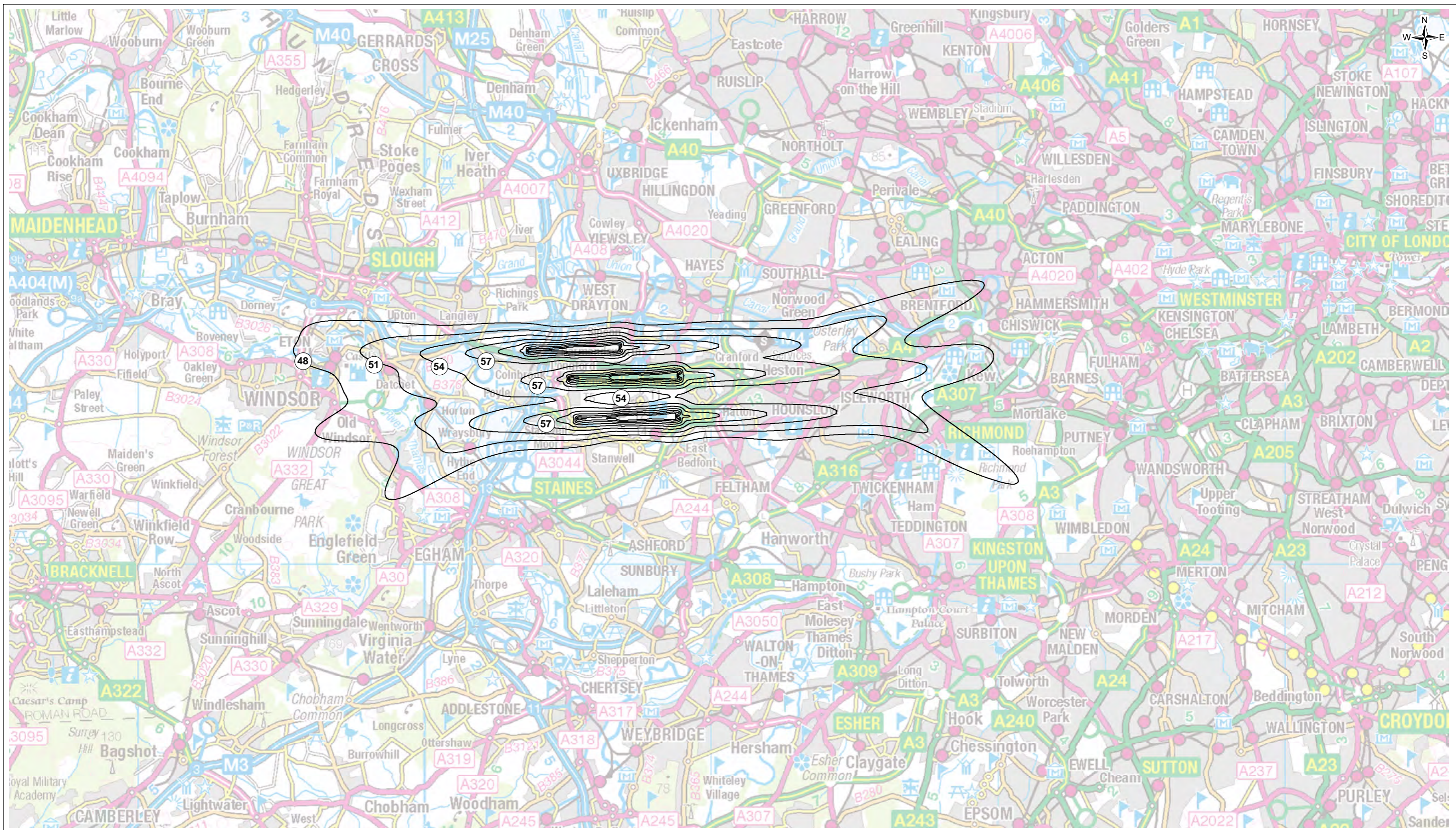
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2021	
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Jacobs No.		B4160007					
Client No.							
Drawing No.		B4160007_LNA2021					



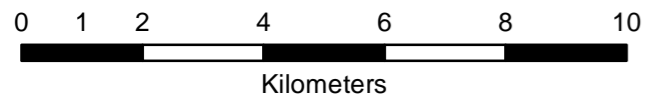
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— $L_{Aeq,8h}$ dB



Project
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FIGURE LNA2022

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2030 Northwest Runway 'Minimise Total' Option
L_{Aeq,8h} Contours**



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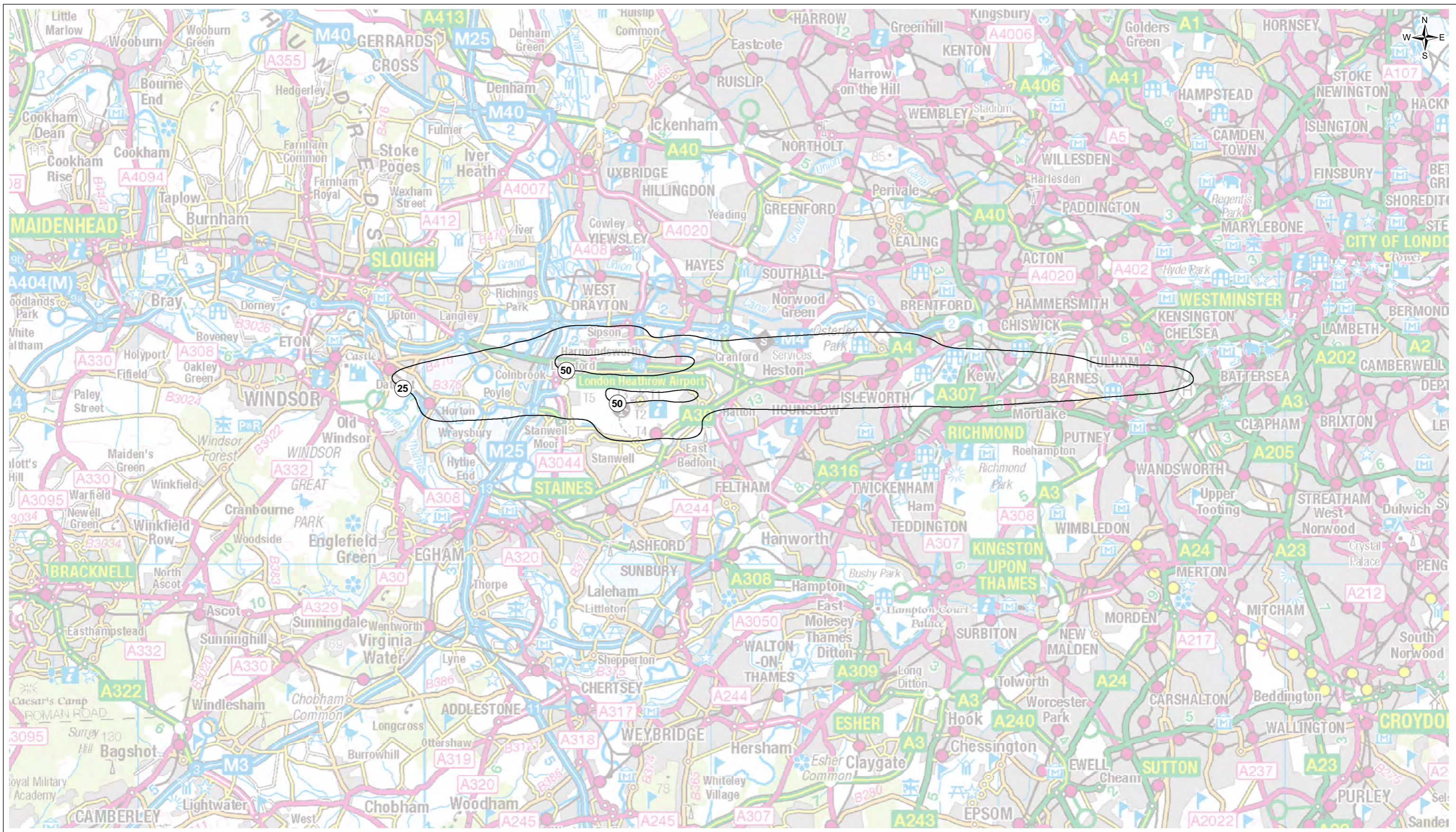
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Client No.

Drawing No. B4160007_LNA2022





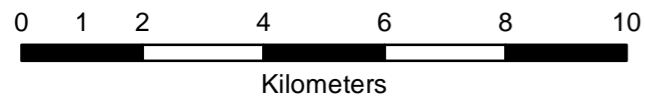
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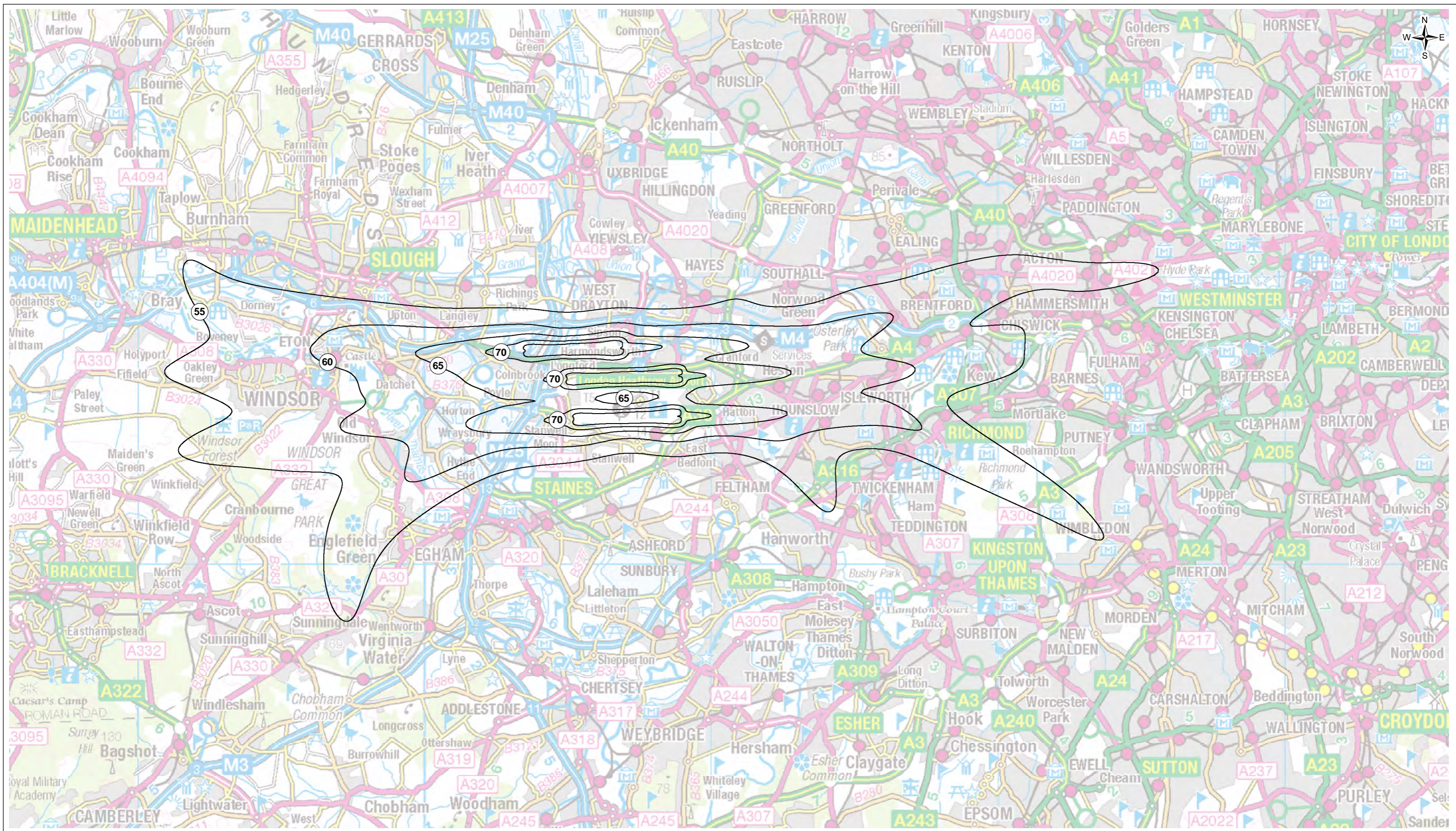
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2083	
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Drawing No.		B4160007_LNA2053					



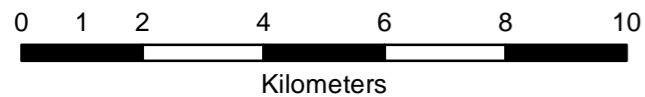
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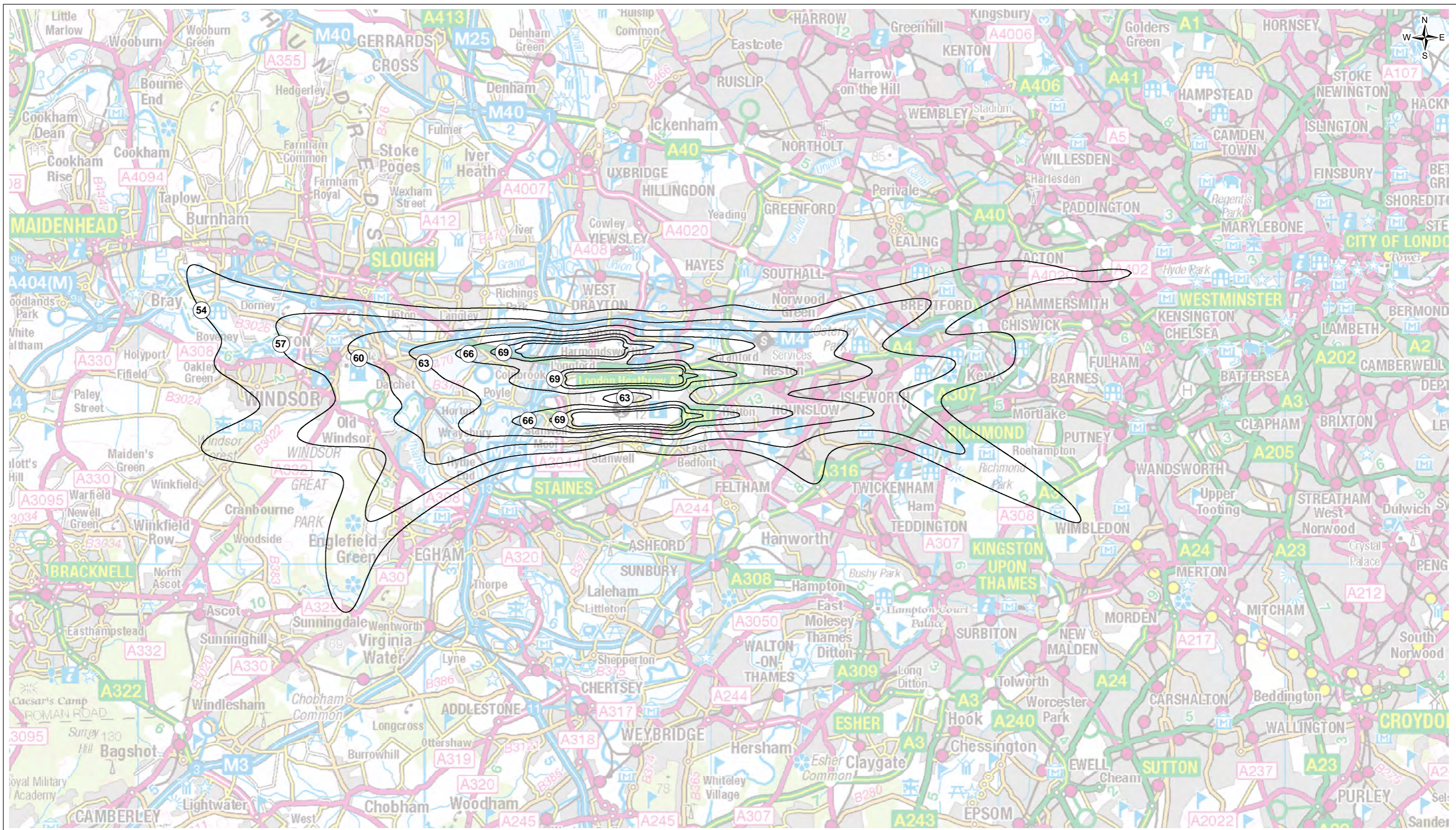
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2024	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise Total' Option Lden Contours				JACOBS	
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Drawing No.		B4160007_LNA2024					



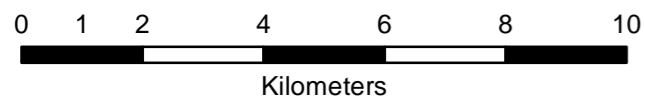
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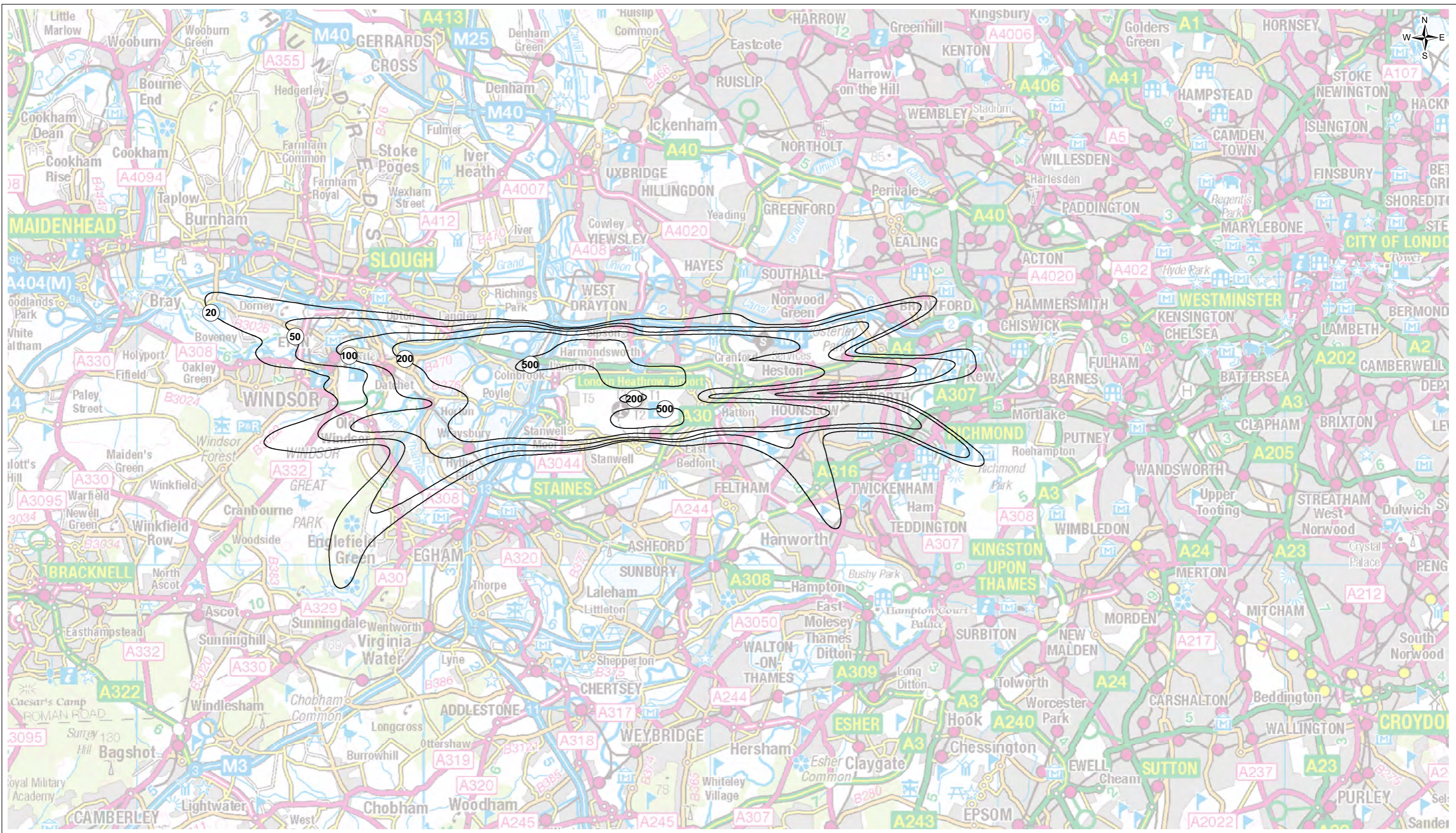
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2025
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise Total' Option L _{Aeq,16h} Contours				
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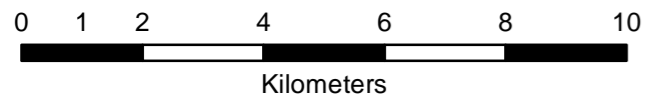
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FIGURE LNA2026

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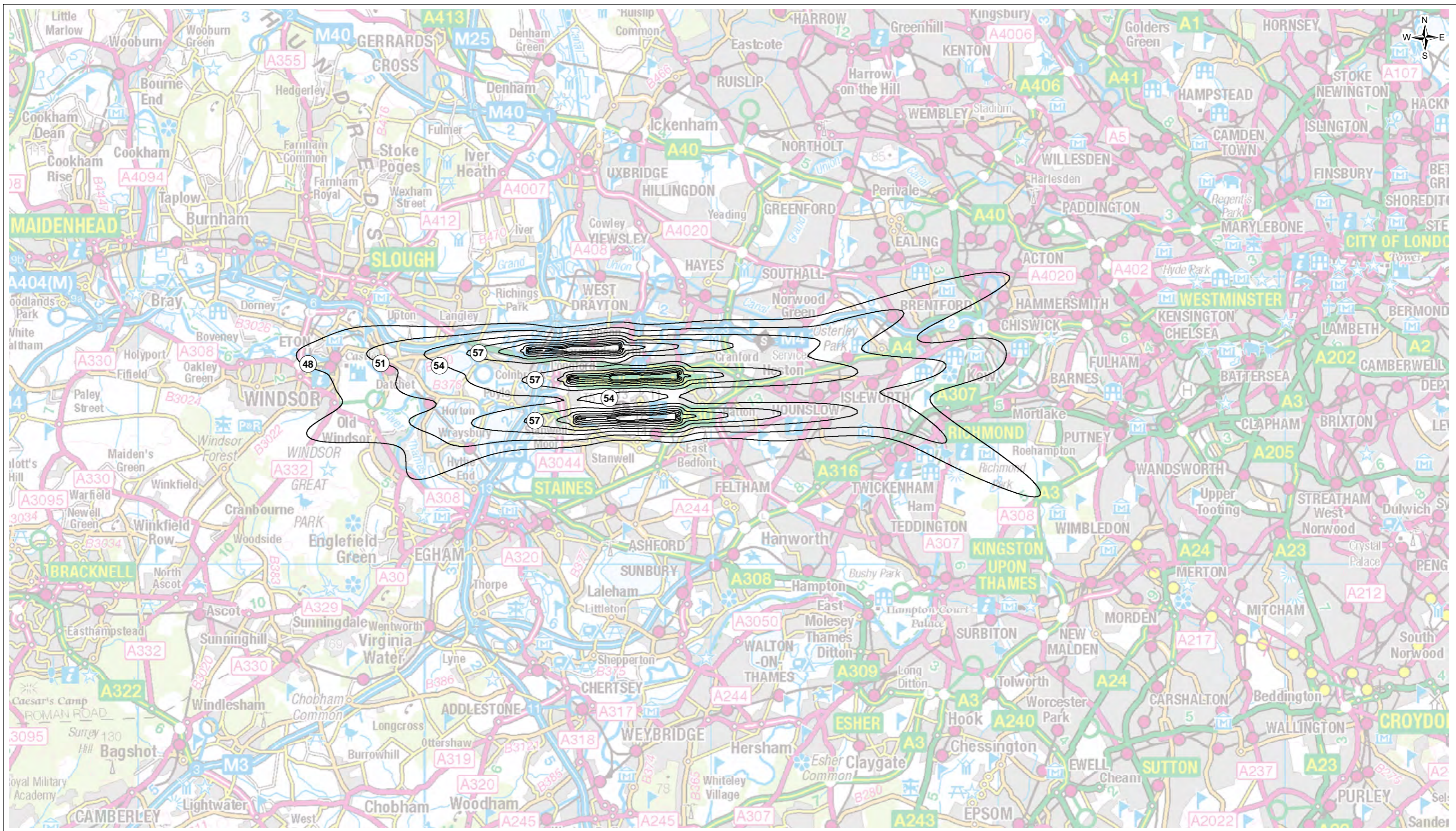
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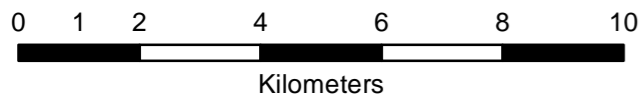
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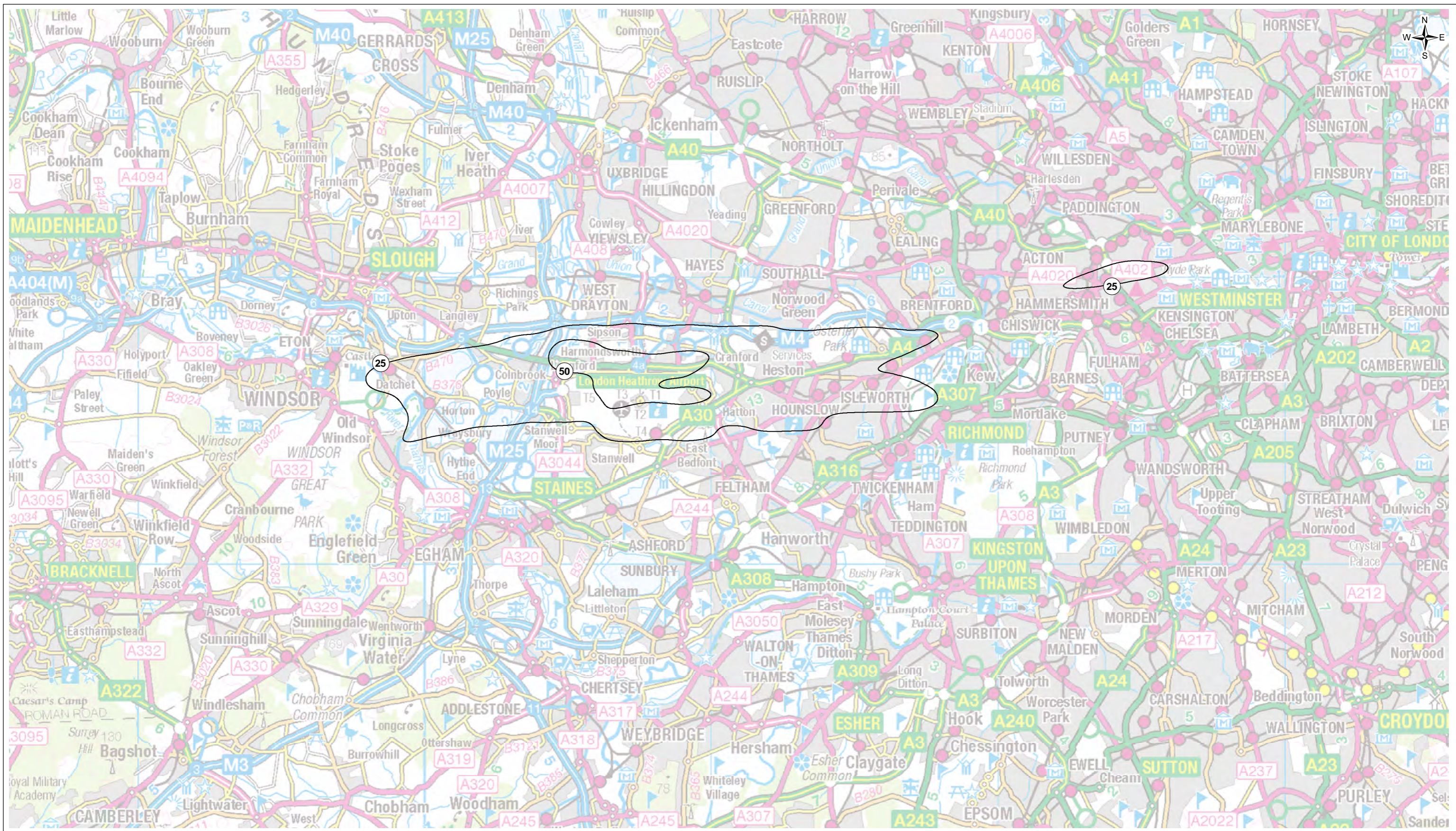
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Drawing No. B4160007_LNA2027							



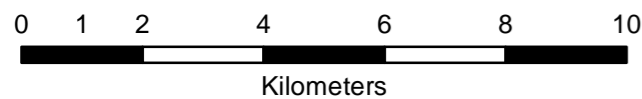
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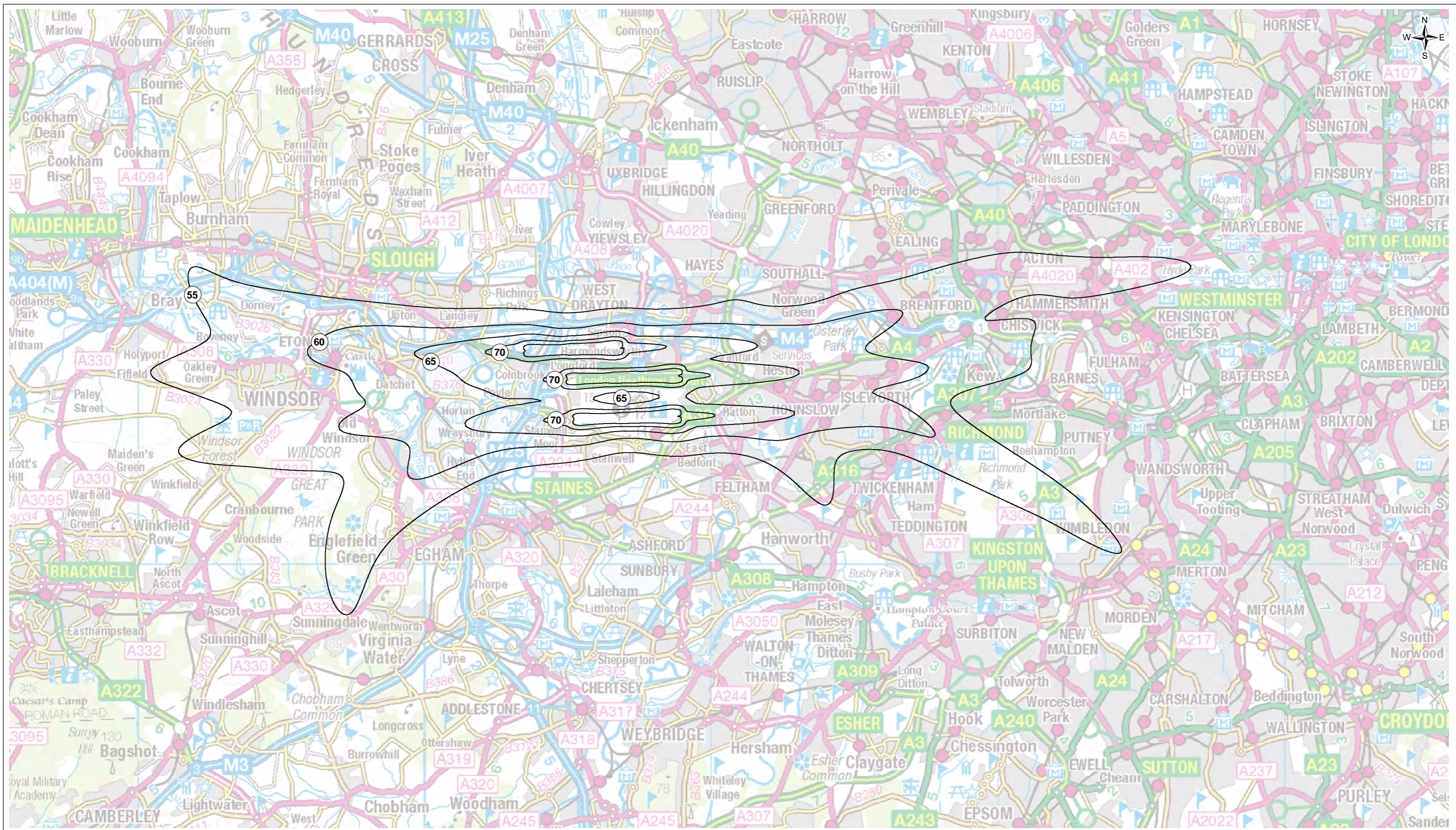
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— N60



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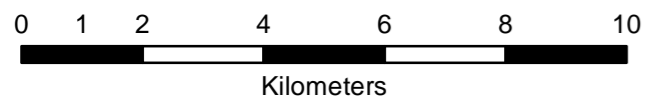
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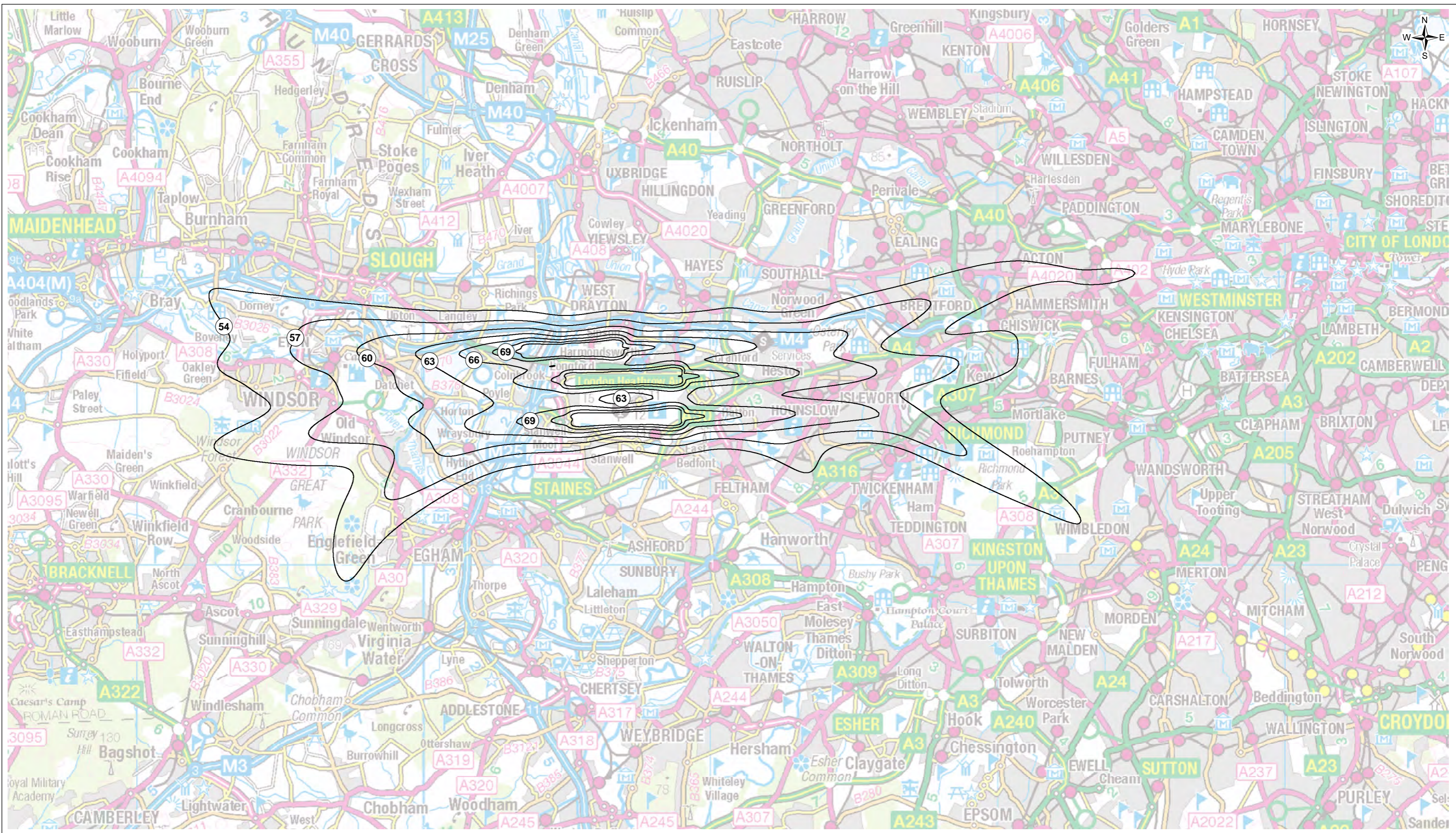
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2029	
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Drawing No.		B4160007_LNA2029				Client Airports Commission	
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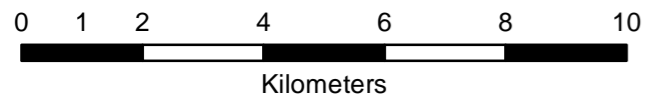
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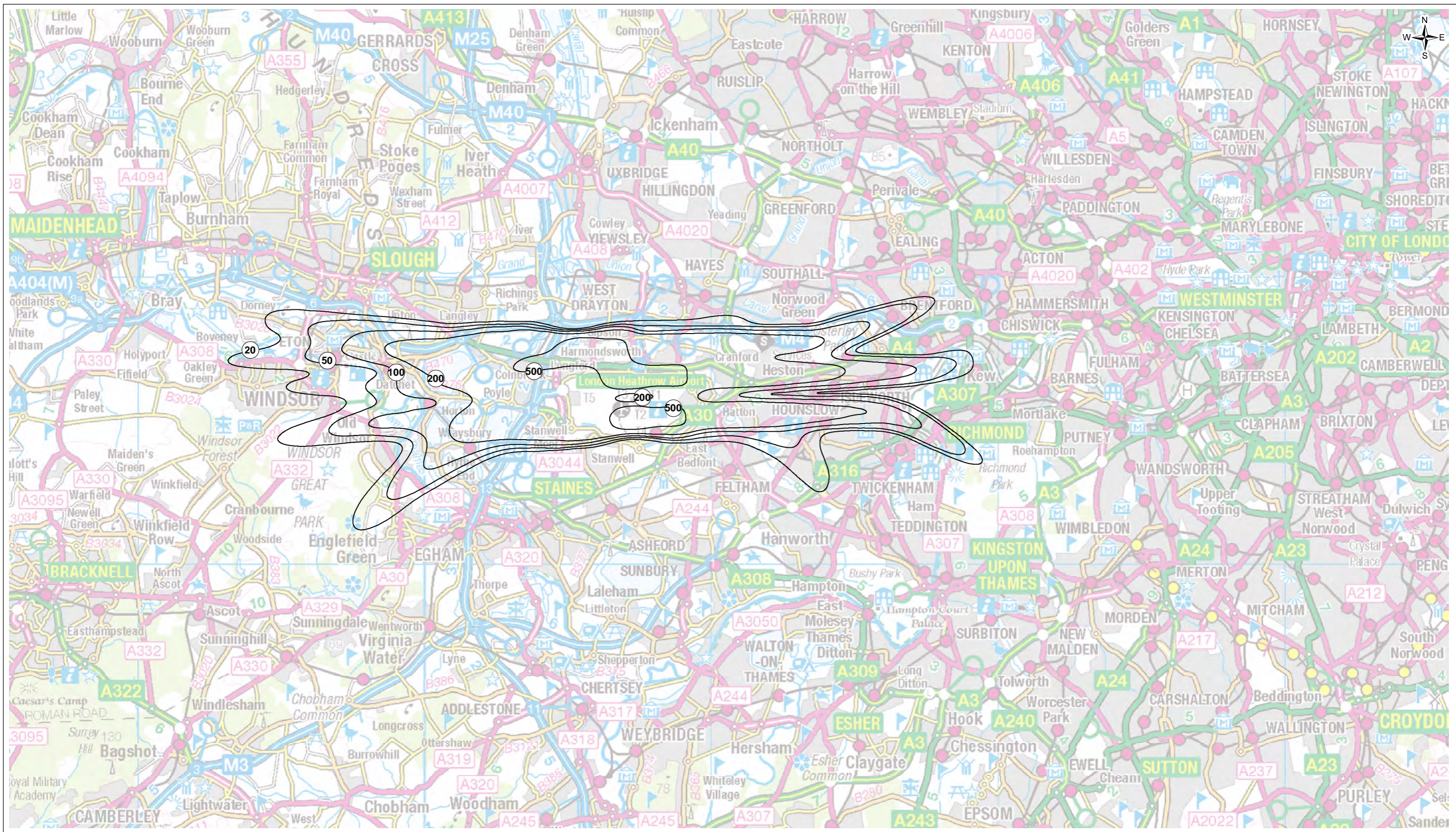
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2030	
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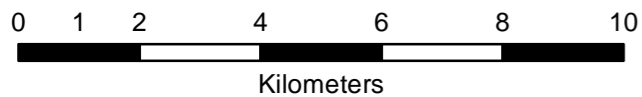
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— N70



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2031

Drawing Title
**Heathrow Airport
2050 Northwest Runway 'Minimise Total' Option
N70 Contours**



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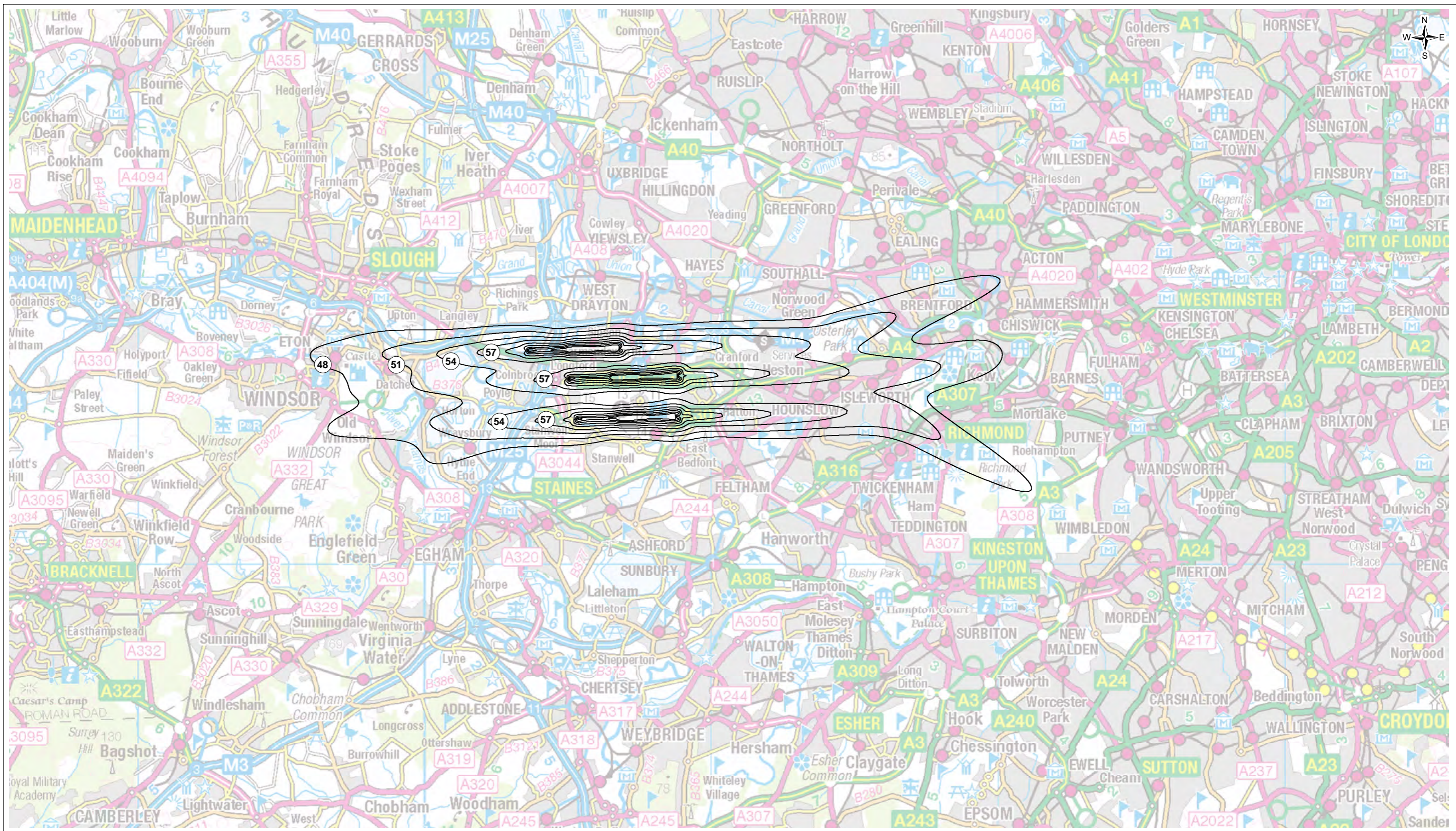
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

Client

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Jacobs No. B4160007
Client No.



Drawing No.
B4160007_LNA2031



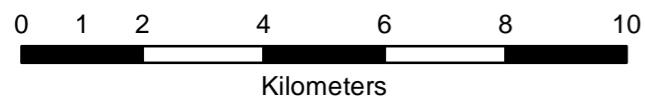
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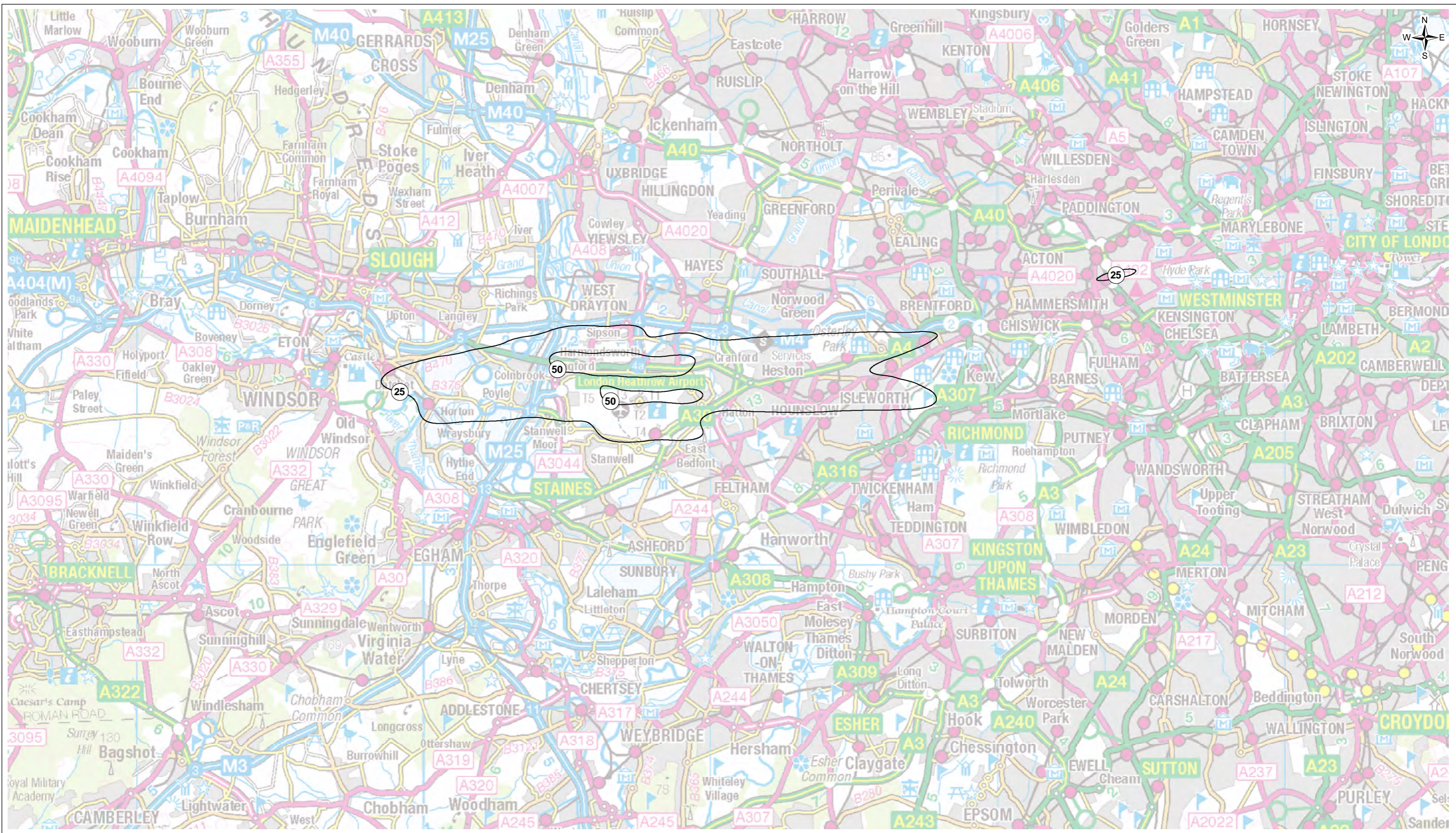
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— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2032	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise Total' Option L _{Aeq,8h} Contours				JACOBS	
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Jacobs No. B4160007							
Drawing No. B4160007_LNA2032							



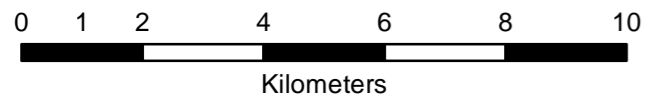
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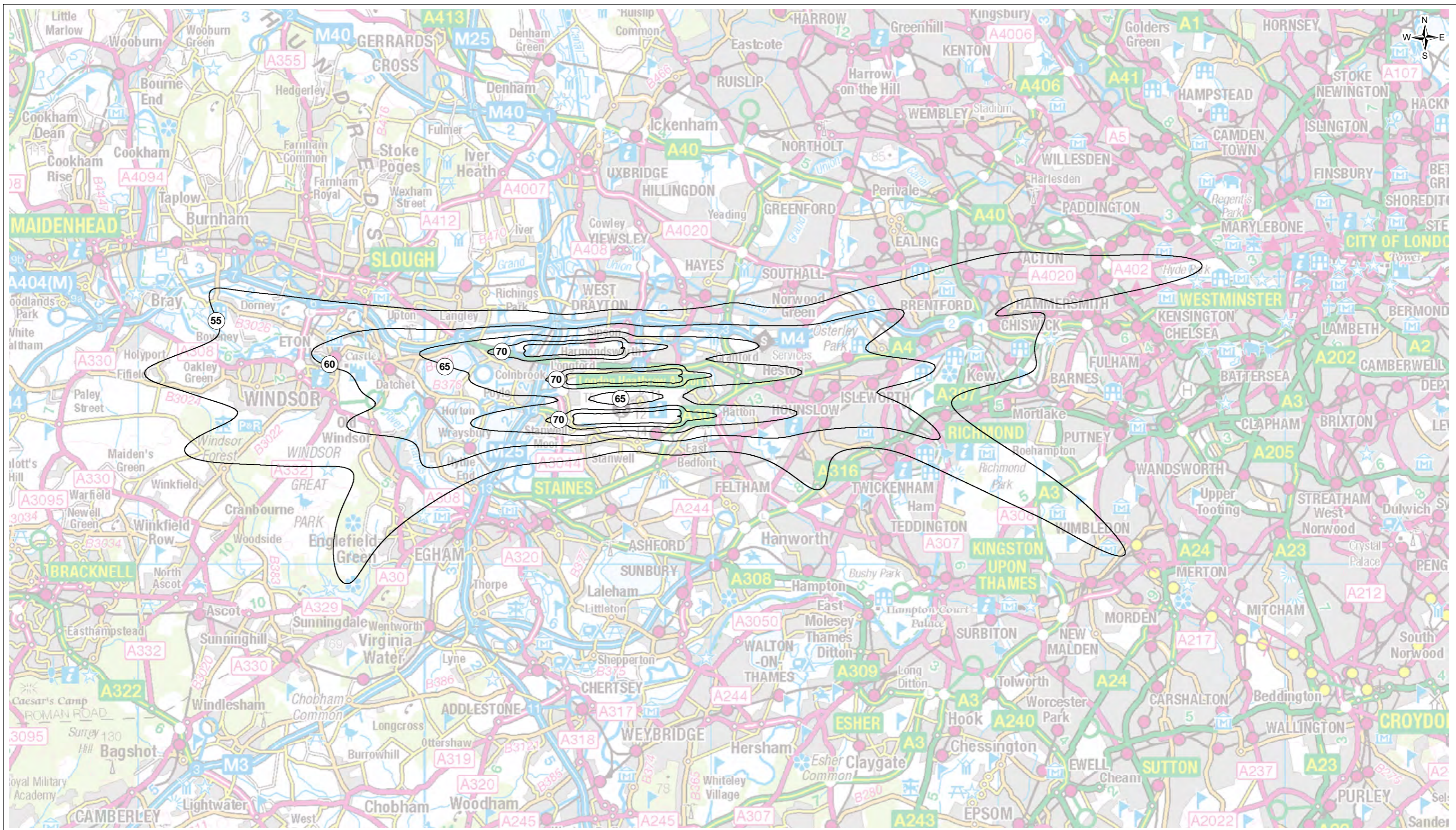
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2033	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise Total' Option N60 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
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Jacobs No. B4160007							
Drawing No. B4160007_LNA2033							



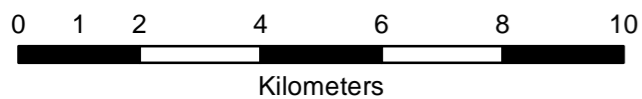
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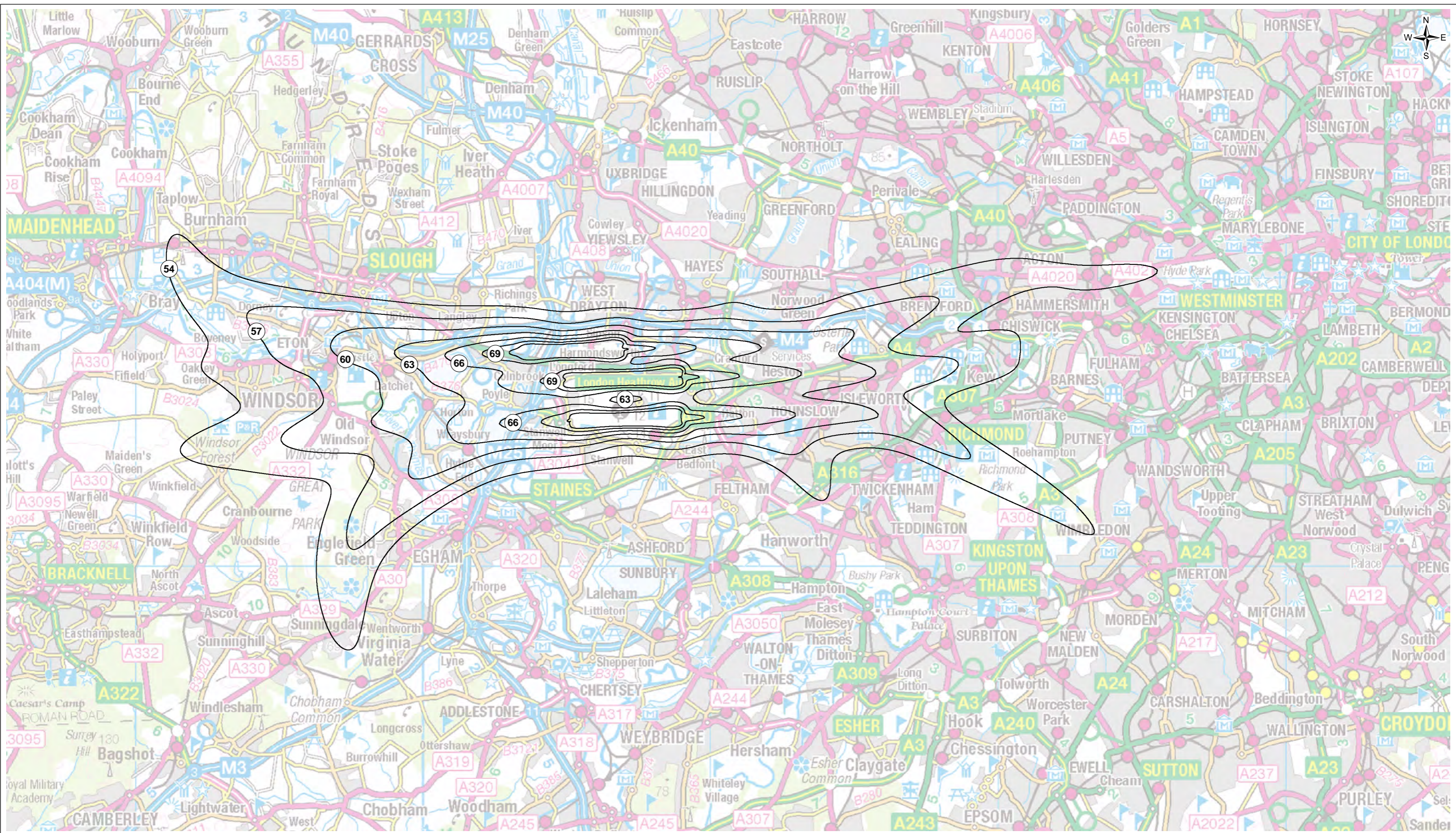
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2034	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise Total' Option Lden Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Drawing No.		B4160007_LNA2034				Client Airports Commission	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	



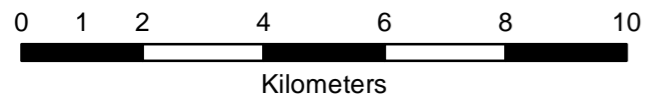
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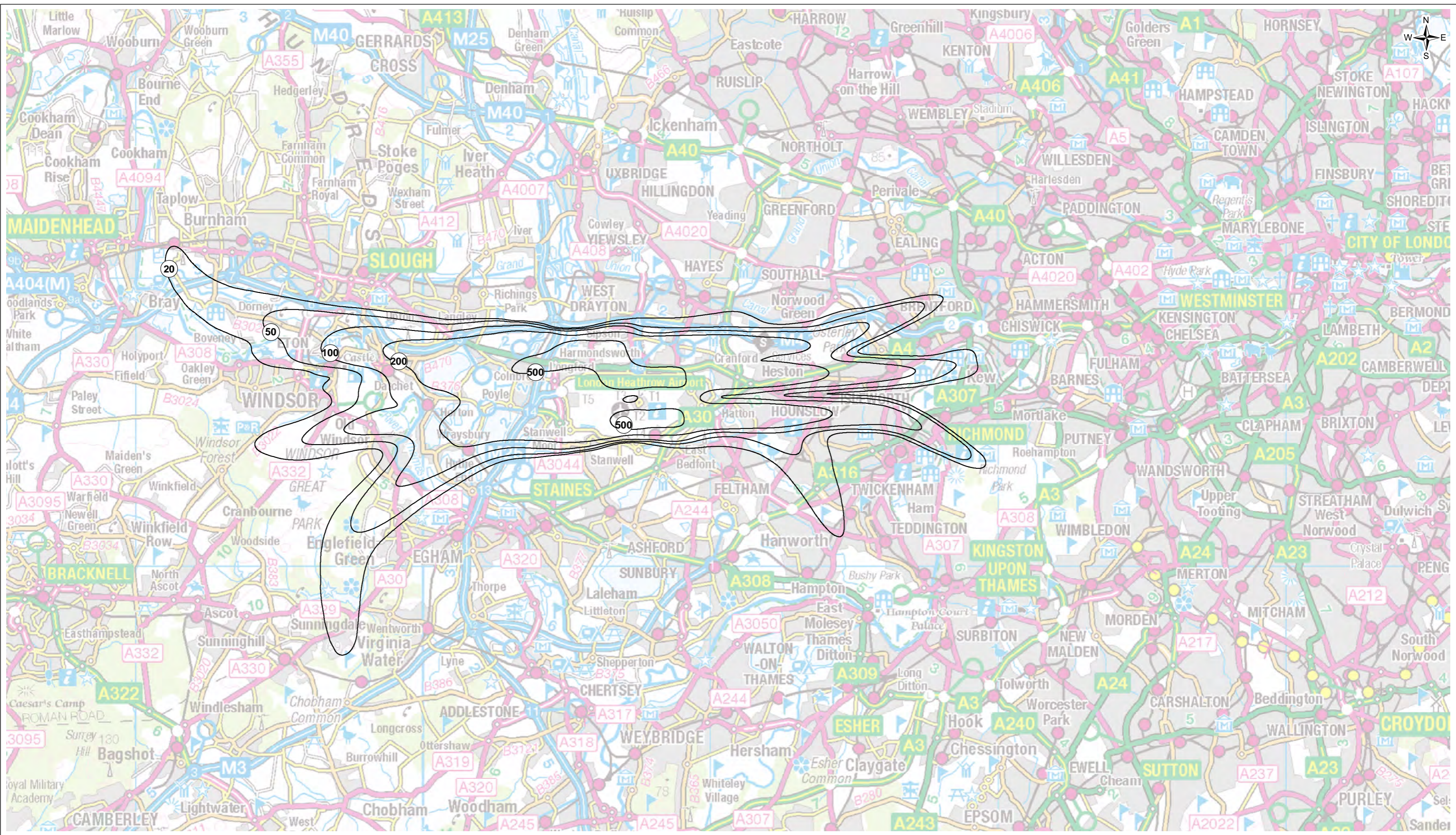
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2035	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise Total Carbon Traded' Option L _{Aeq,16h} Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA2035							



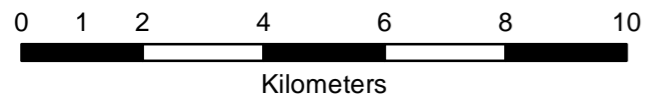
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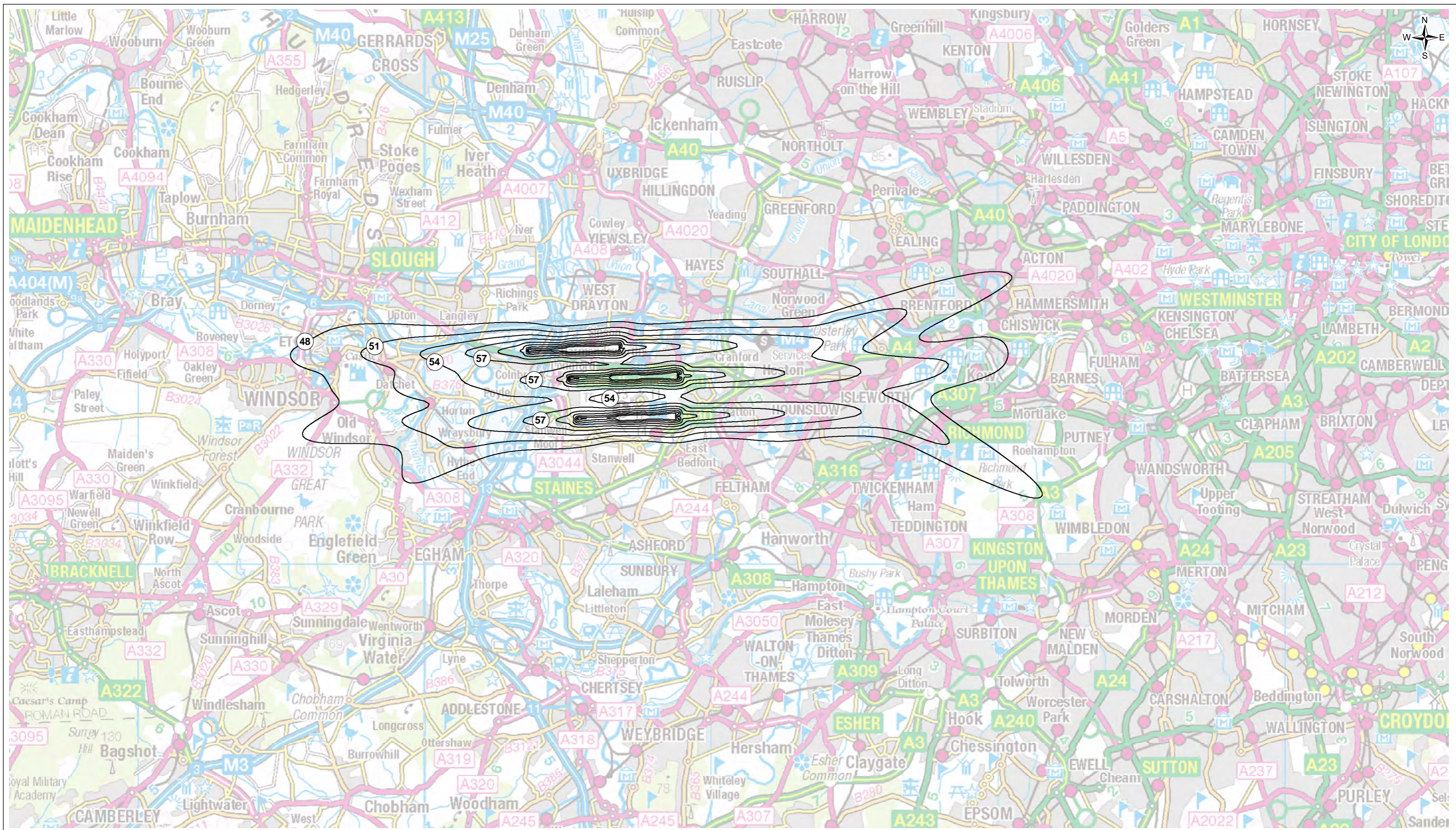
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2036	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise Total Carbon Traded' Option N70 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
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Client No.							
Drawing No.		B4160007_LNA2036					



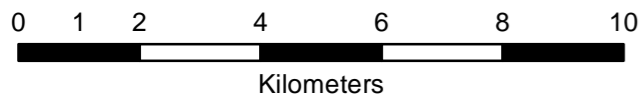
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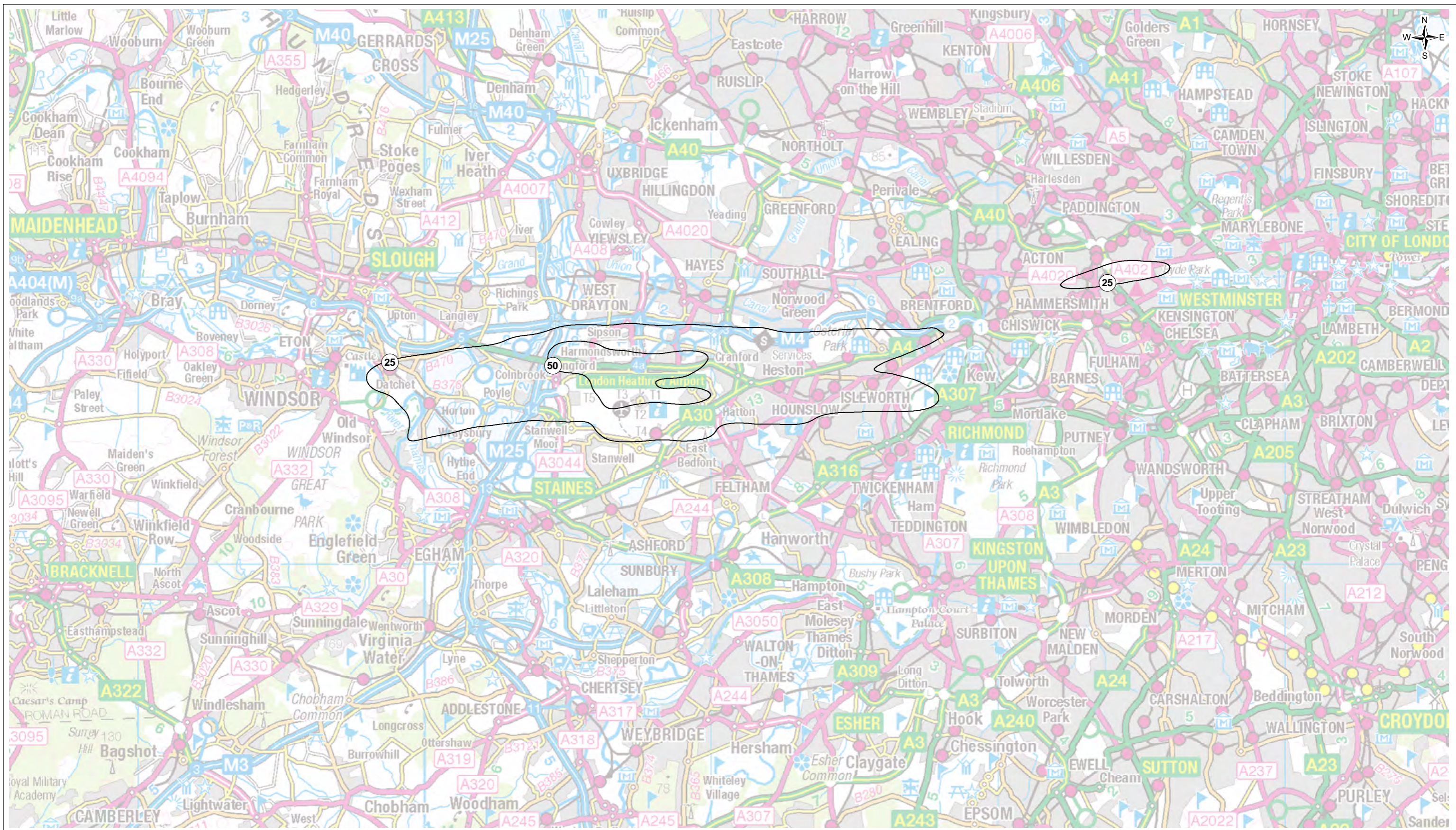
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2037	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise Total Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS	
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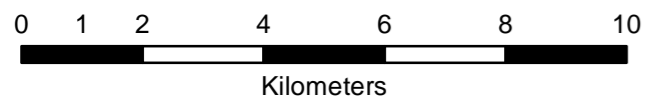
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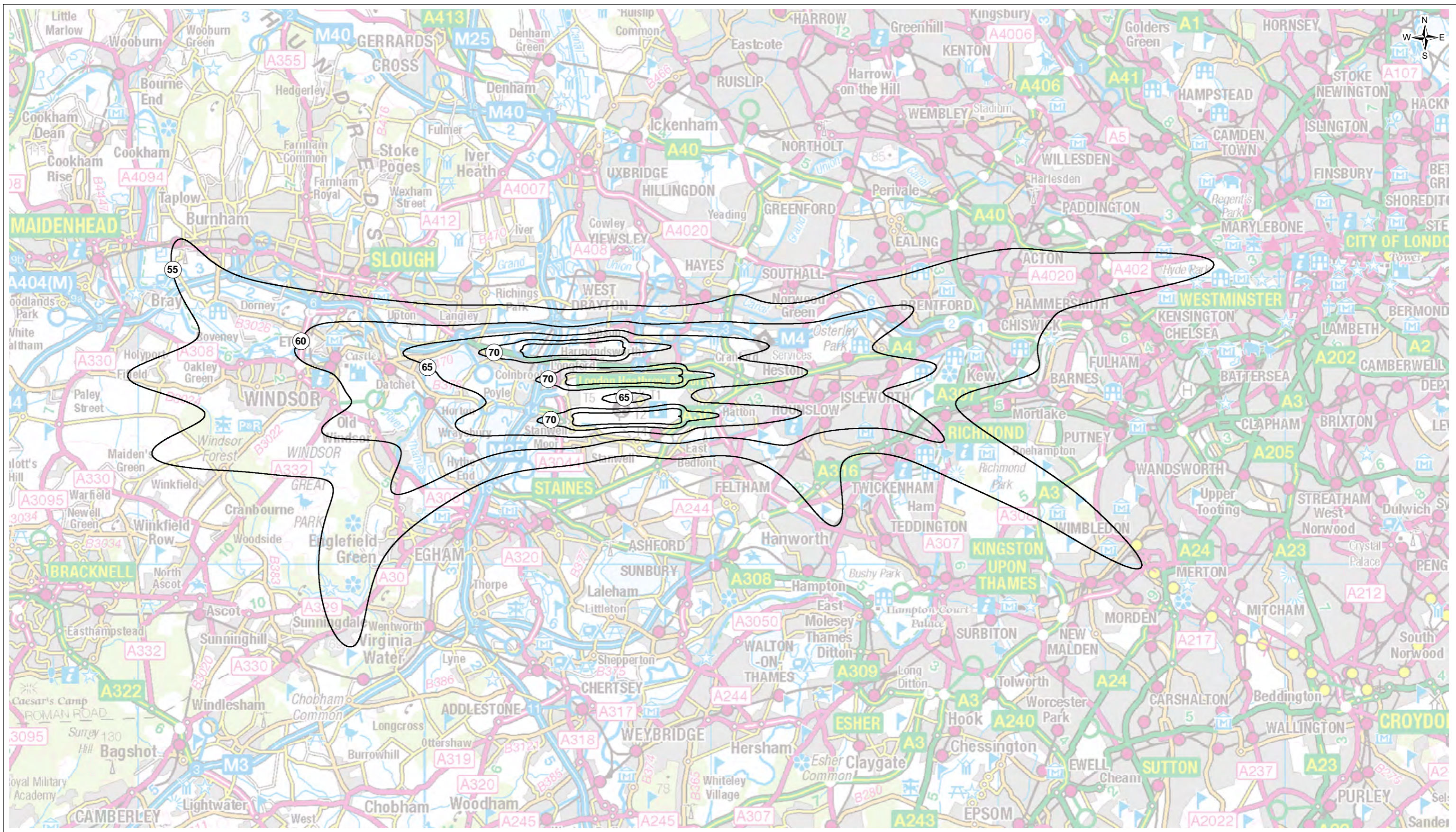
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2038	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise Total Carbon Traded' Option N60 Contours				JACOBS	
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Drawing No. B4160007_LNA2038							



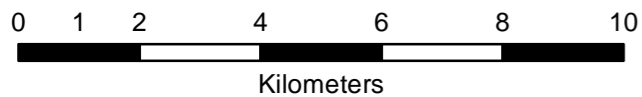
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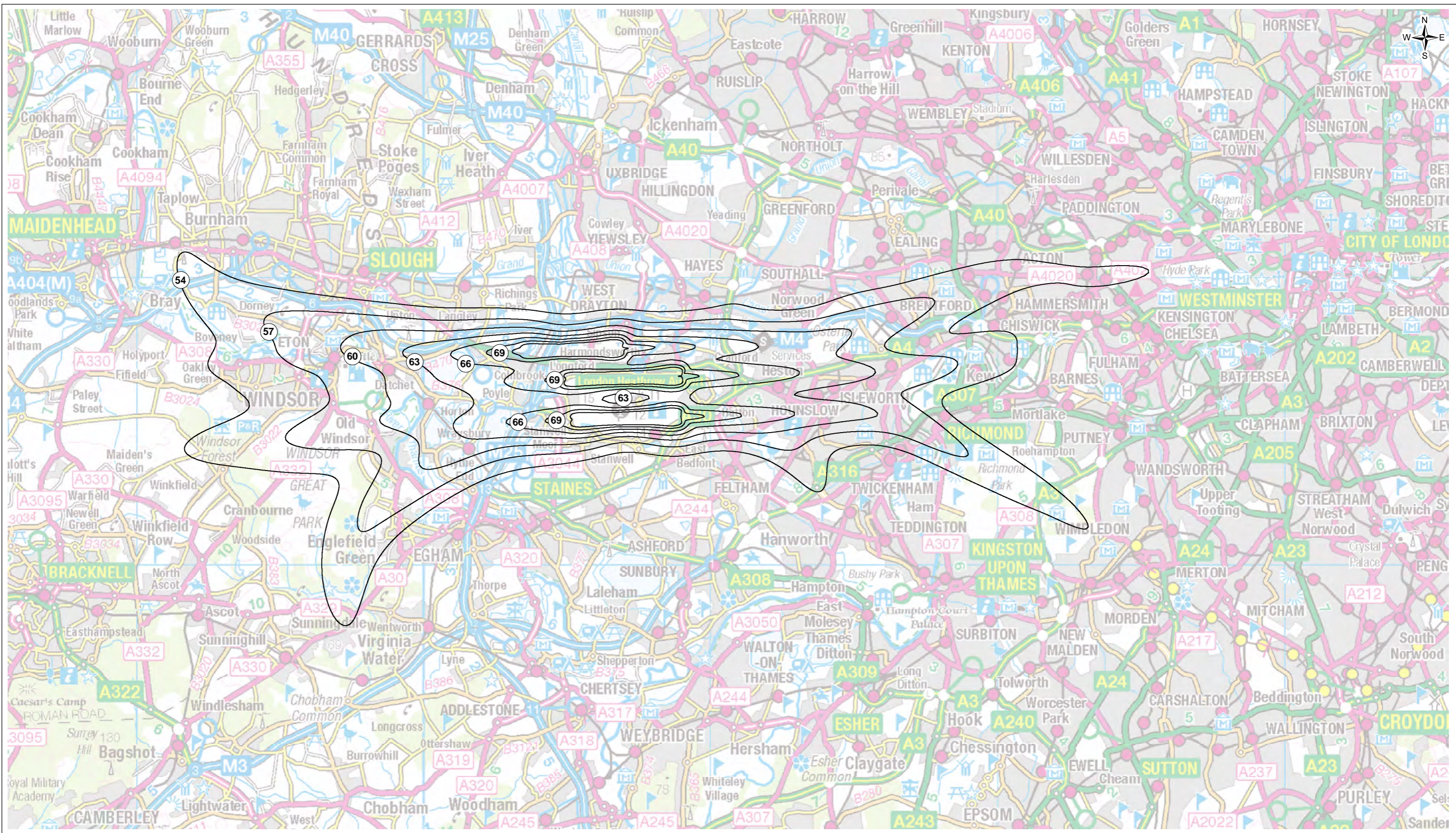
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2039	
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Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Client		Airports Commission					
Drawing No.		B4160007_LNA2039					
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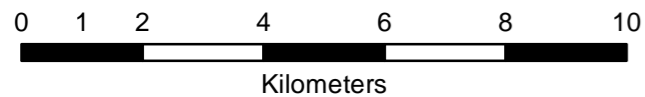
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— L_{Aeq,16h} dB



Project
**AIRPORTS COMMISSION
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FIGURE LNA2040

Drawing Title
Heathrow Airport
2040 Northwest Runway 'Minimise Total Carbon Traded' Option
L_{Aeq,16h} Contours



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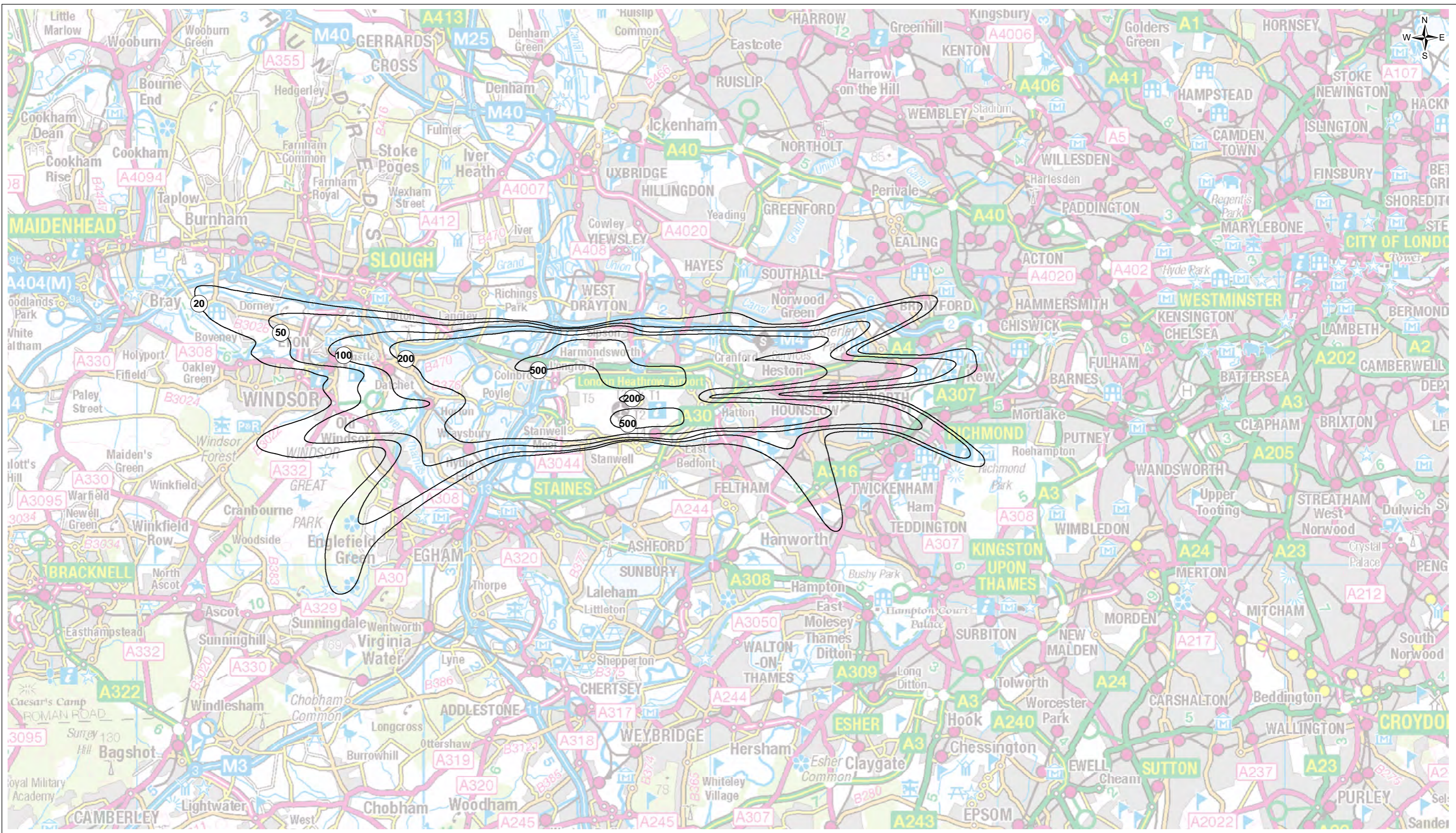
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Client No.

Drawing No. B4160007_LNA2040





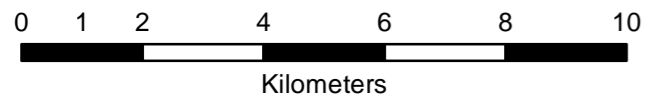
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— N70



Project
**AIRPORTS COMMISSION
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FIGURE LNA2041

Drawing Title
Heathrow Airport
2040 Northwest Runway 'Minimise Total Carbon Traded' Option
N70 Contours



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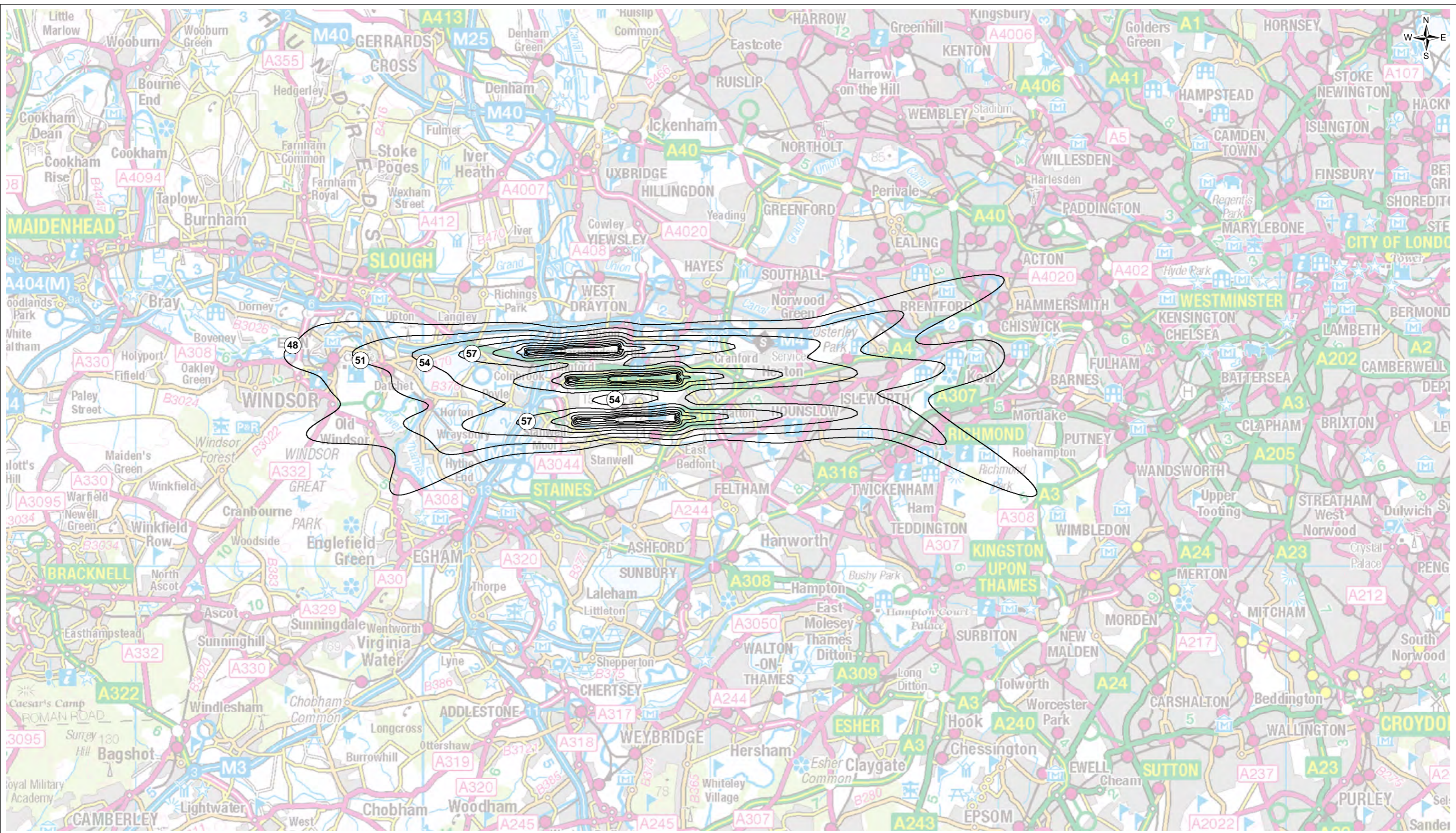
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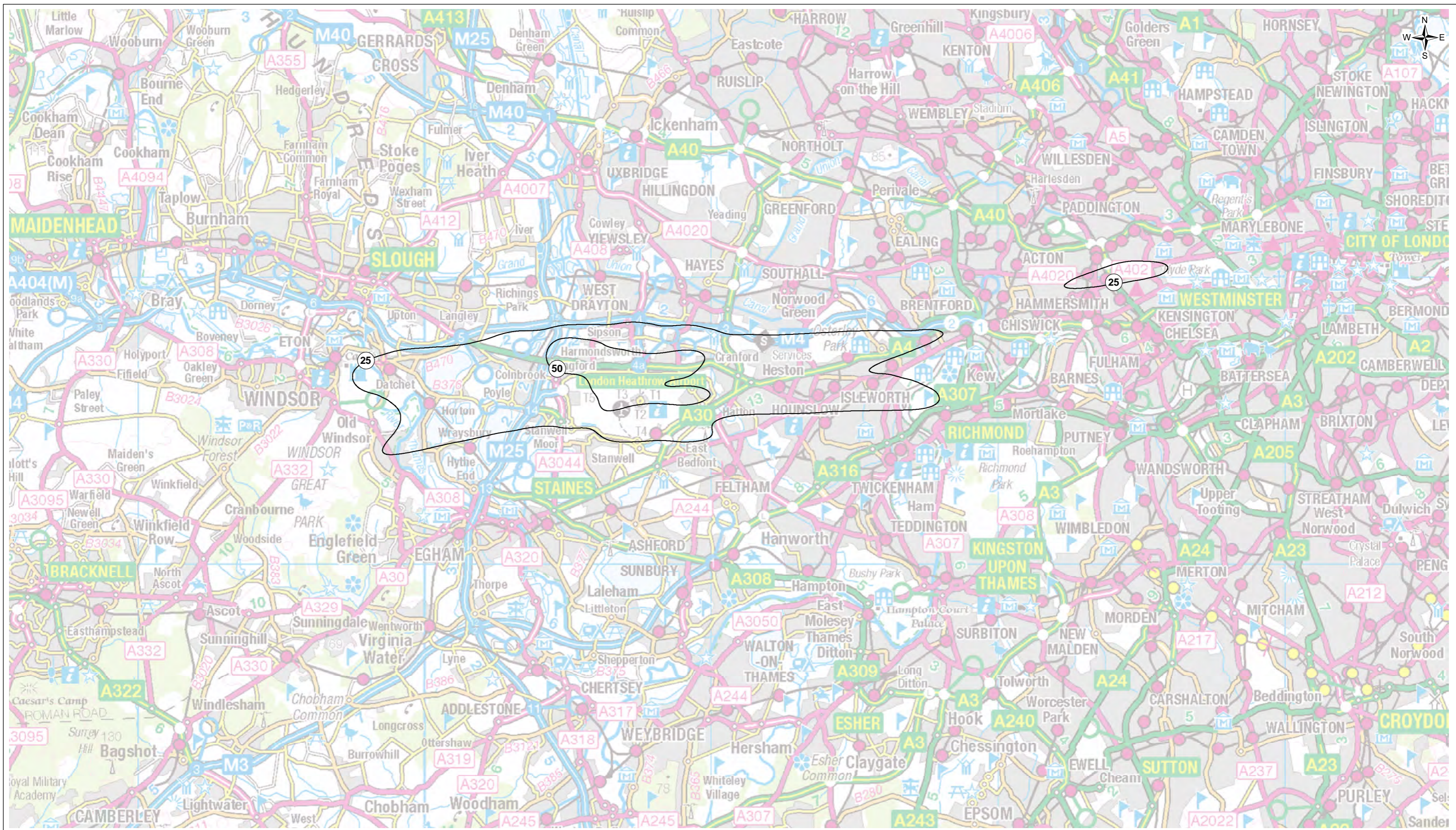
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2042	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise Total Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Drawing No.		B4160007_LNA2042				Client Airports Commission	
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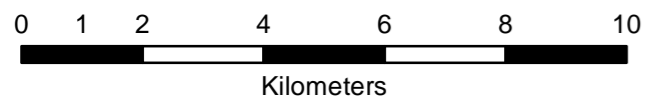
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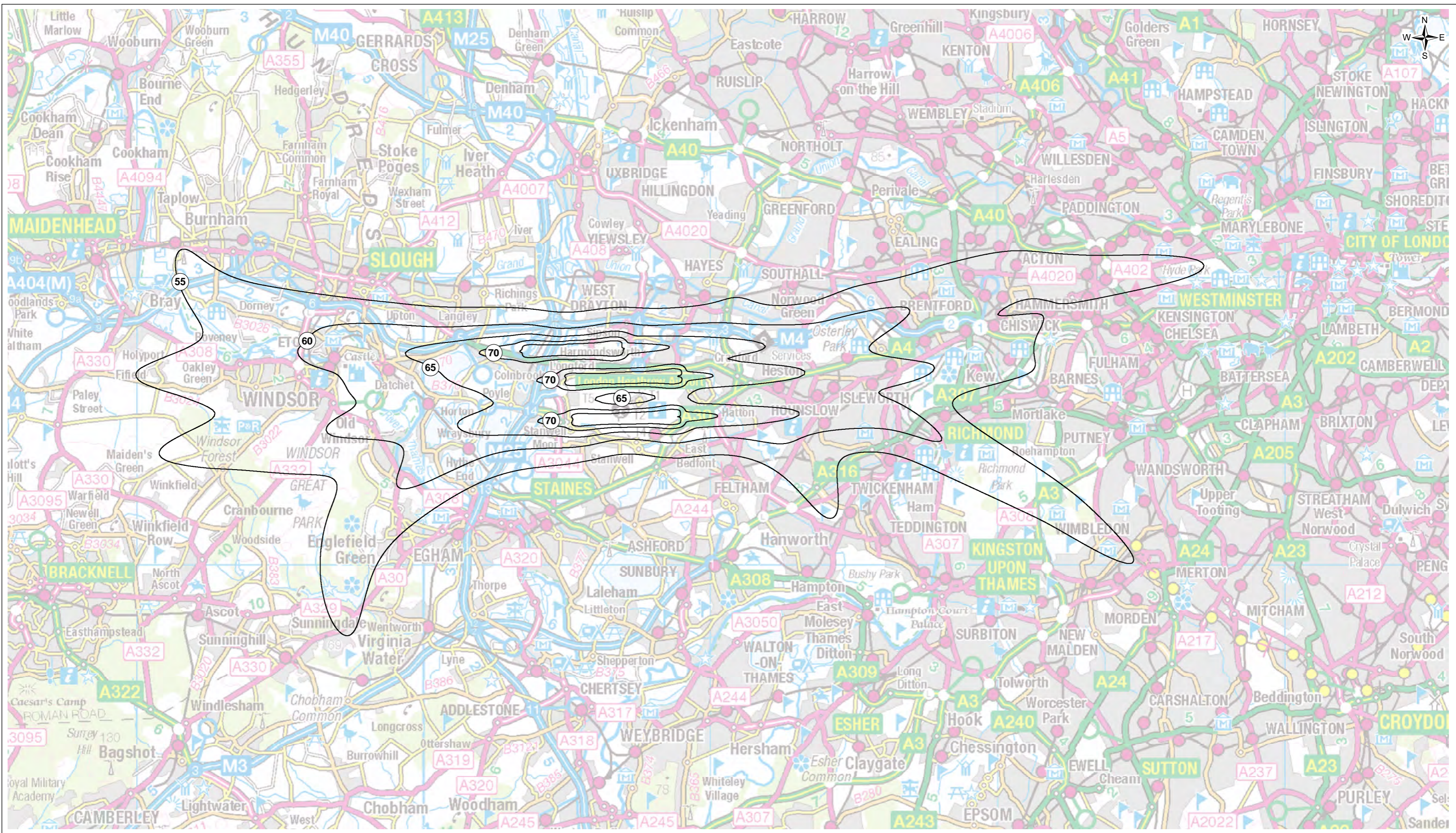
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2043	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise Total Carbon Traded' Option N60 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No.		B4160007_LNA2043					



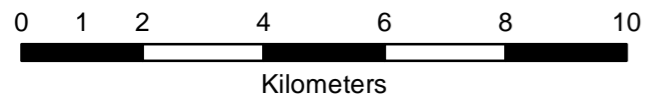
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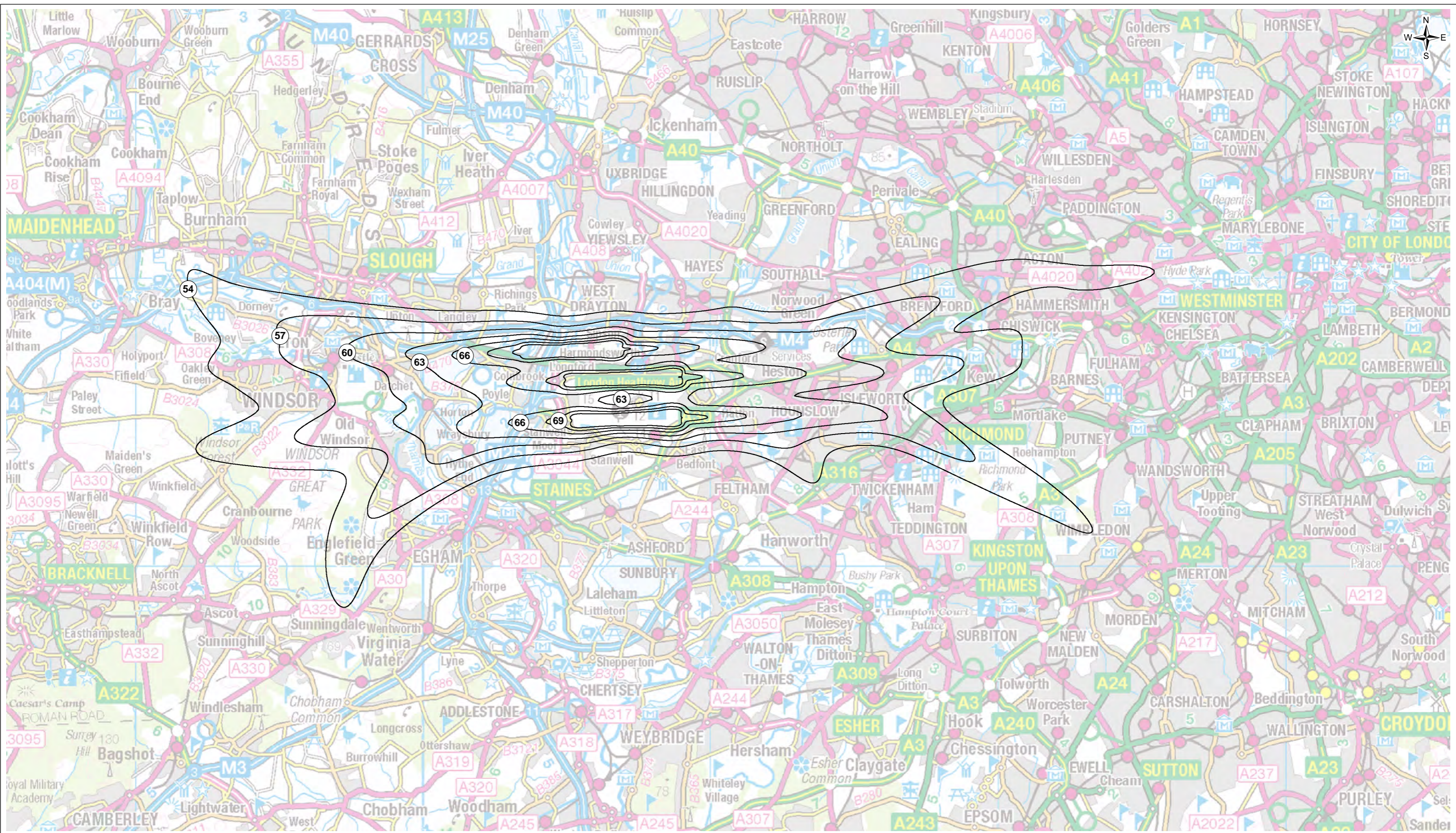
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2044	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise Total Carbon Traded' Option Lden Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA2044							



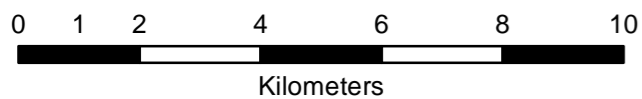
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— L_{Aeq,16h} dB



Project
**AIRPORTS COMMISSION
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FIGURE LNA2045

Drawing Title
Heathrow Airport
2050 Northwest Runway 'Minimise Total Carbon Traded' Option
L_{Aeq,16h} Contours



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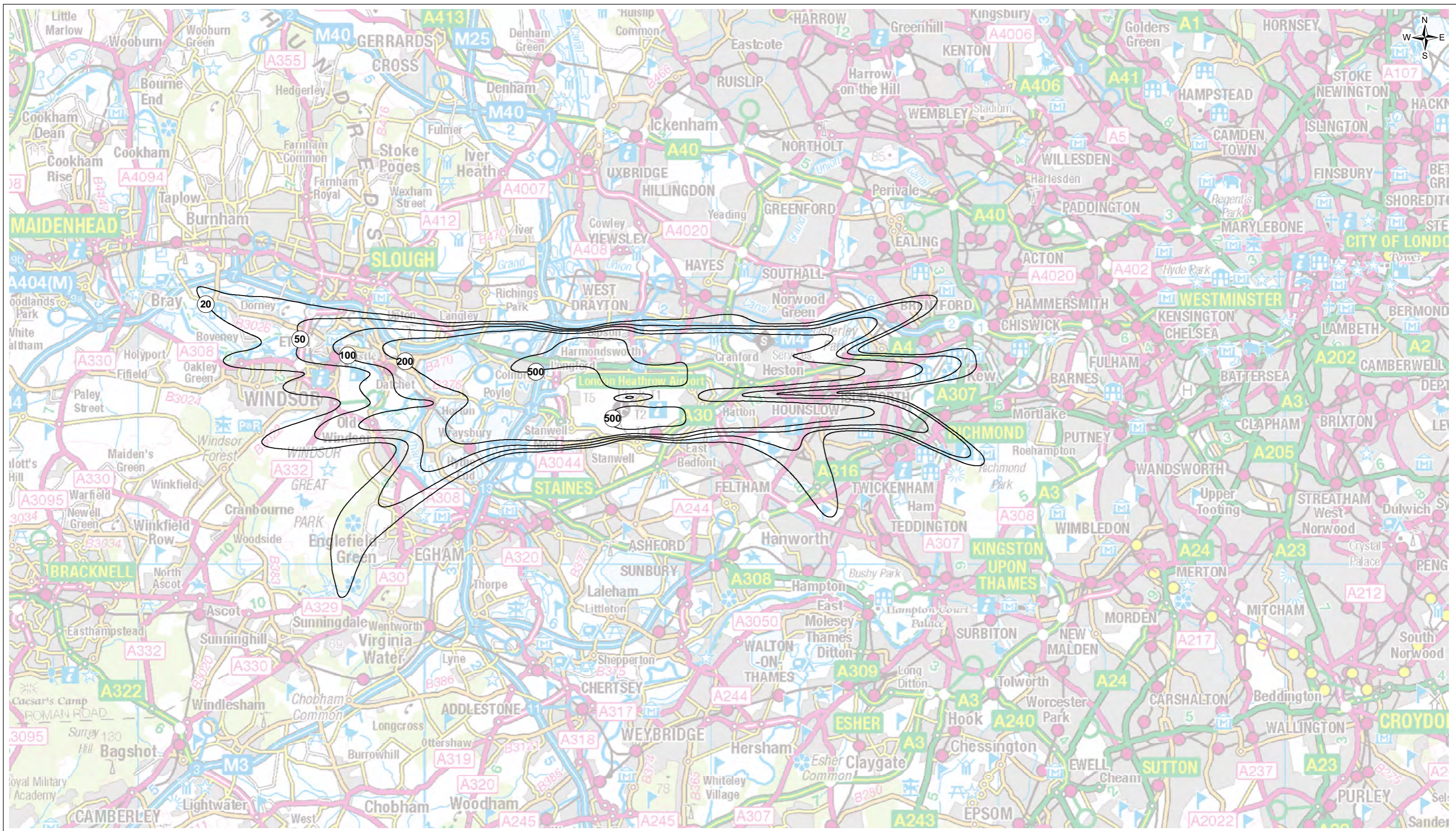
Scale @ A3 1:125,000
DO NOT SCALE

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Client No.

Drawing No. B4160007_LNA2045





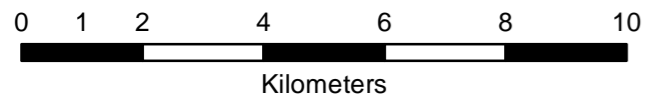
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— N70



Project
**AIRPORTS COMMISSION
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FIGURE LNA2046

Drawing Title
Heathrow Airport
2050 Northwest Runway 'Minimise Total Carbon Traded' Option
N70 Contours



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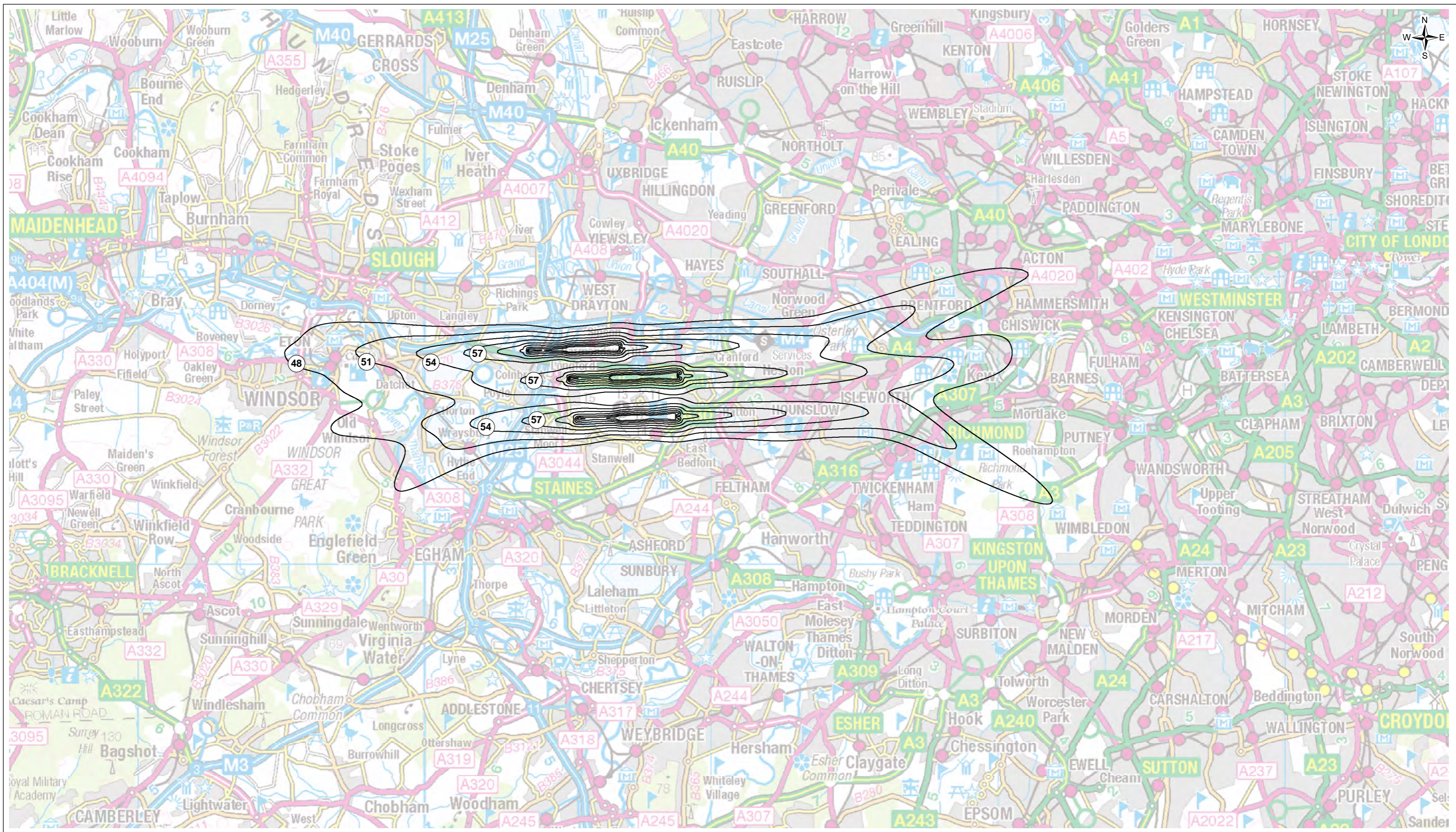
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Drawing No. B4160007_LNA2046





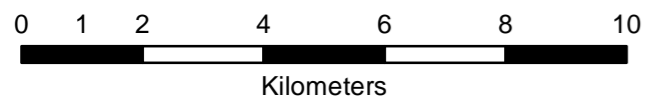
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— L_{Aeq,8h} dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2047

Drawing Title
Heathrow Airport
2050 Northwest Runway 'Minimise Total Carbon Traded' Option
L_{Aeq,8h} Contours



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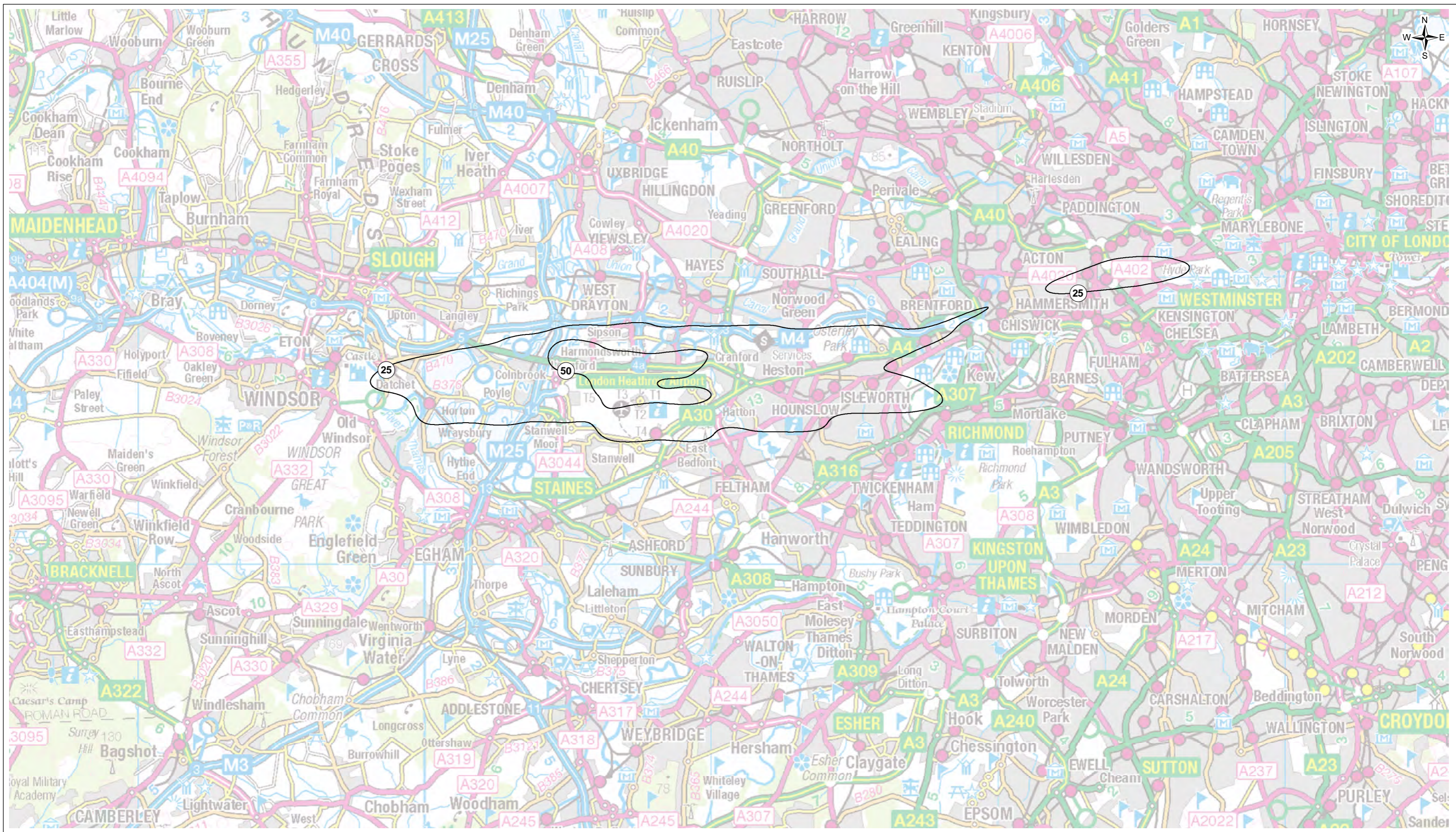
Scale @ A3 1:125,000

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Drawing No. B4160007_LNA2047





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Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2048

Drawing Title
Heathrow Airport
2050 Northwest Runway 'Minimise Total Carbon Traded' Option
N60 Contours



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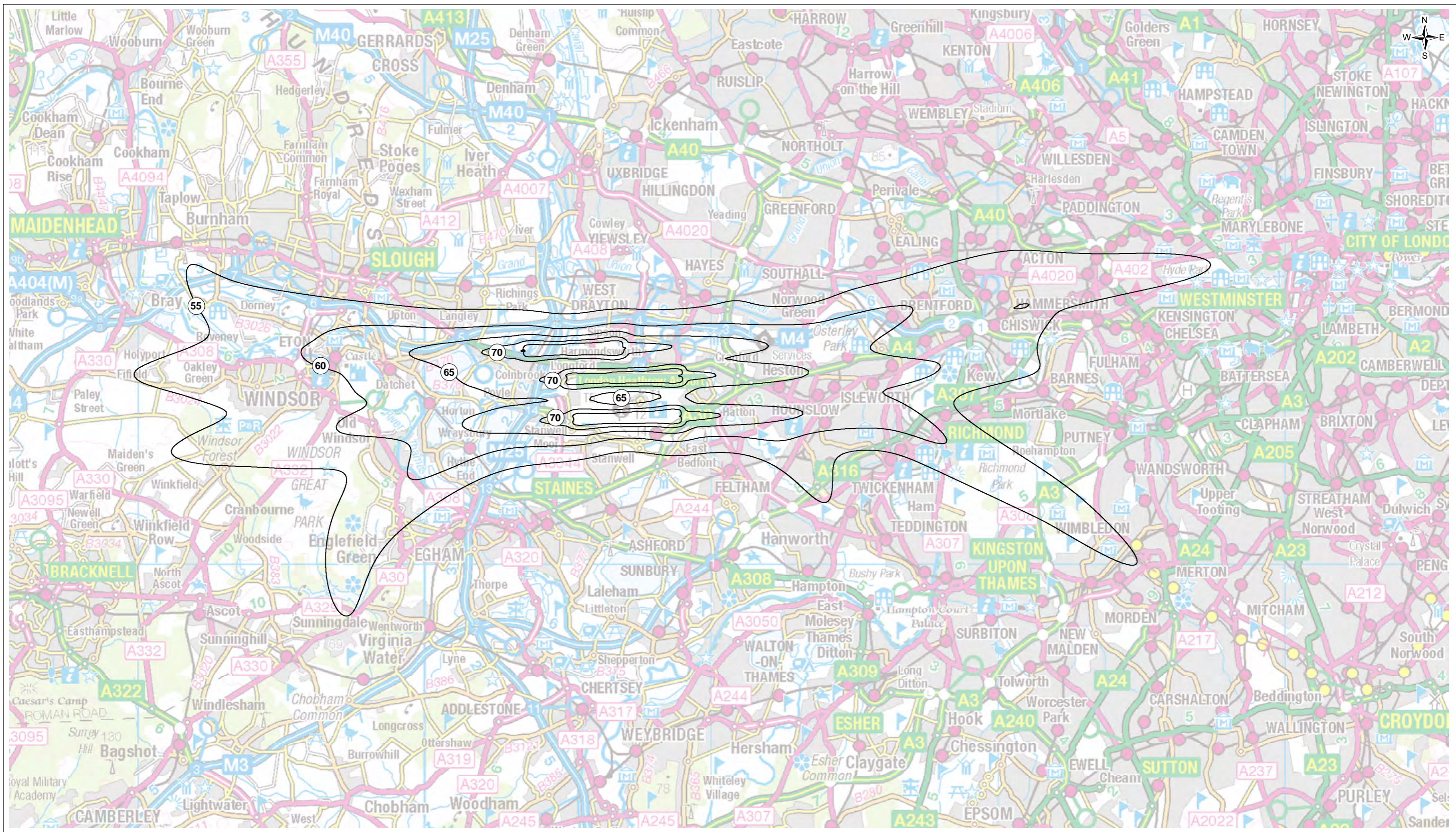
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— L_{den} dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2049

Drawing Title
Heathrow Airport
2050 Northwest Runway 'Minimise Total Carbon Traded' Option
Lden Contours



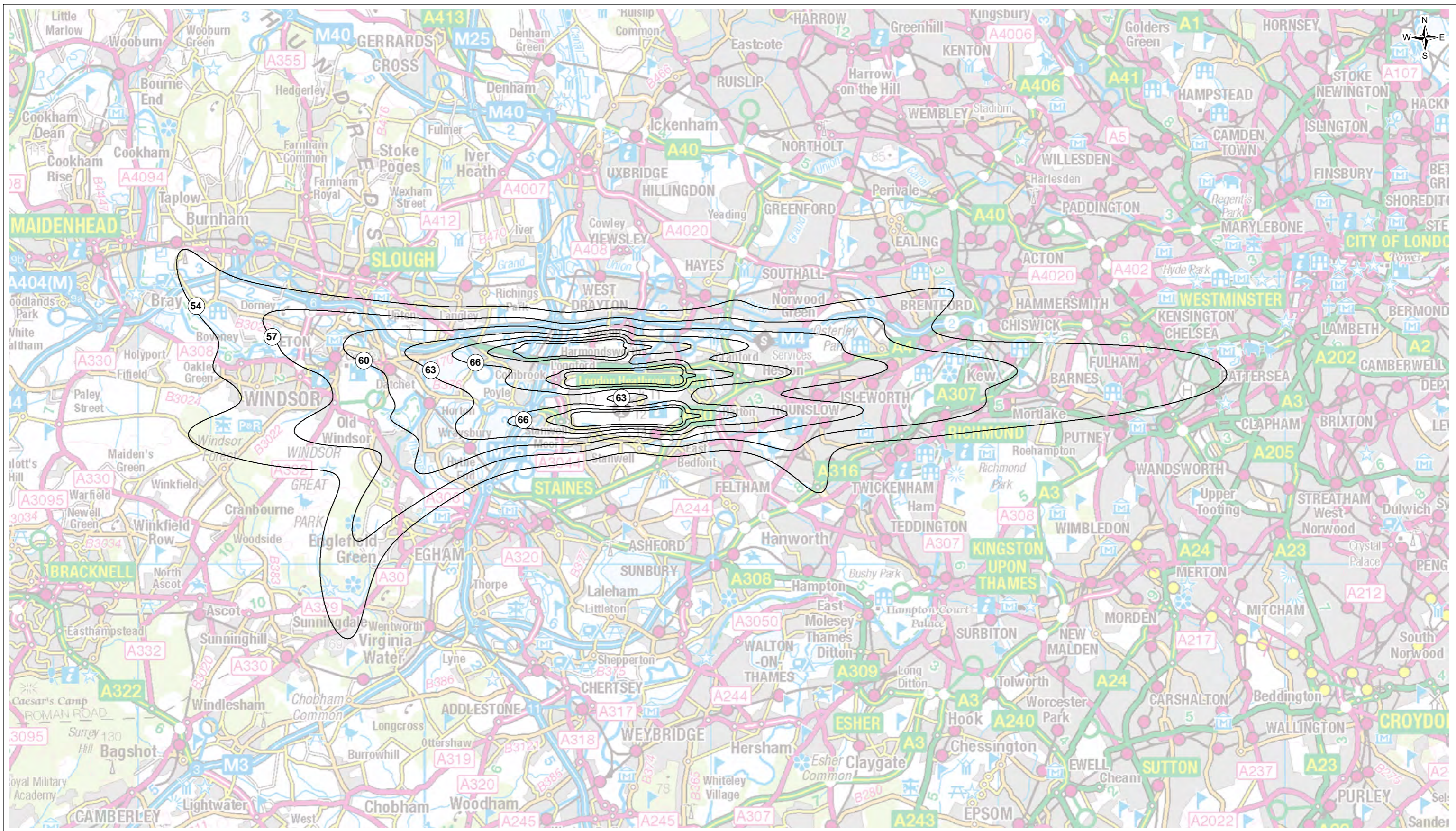
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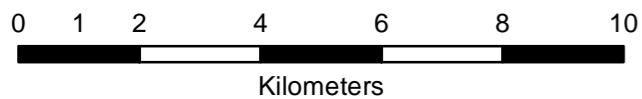
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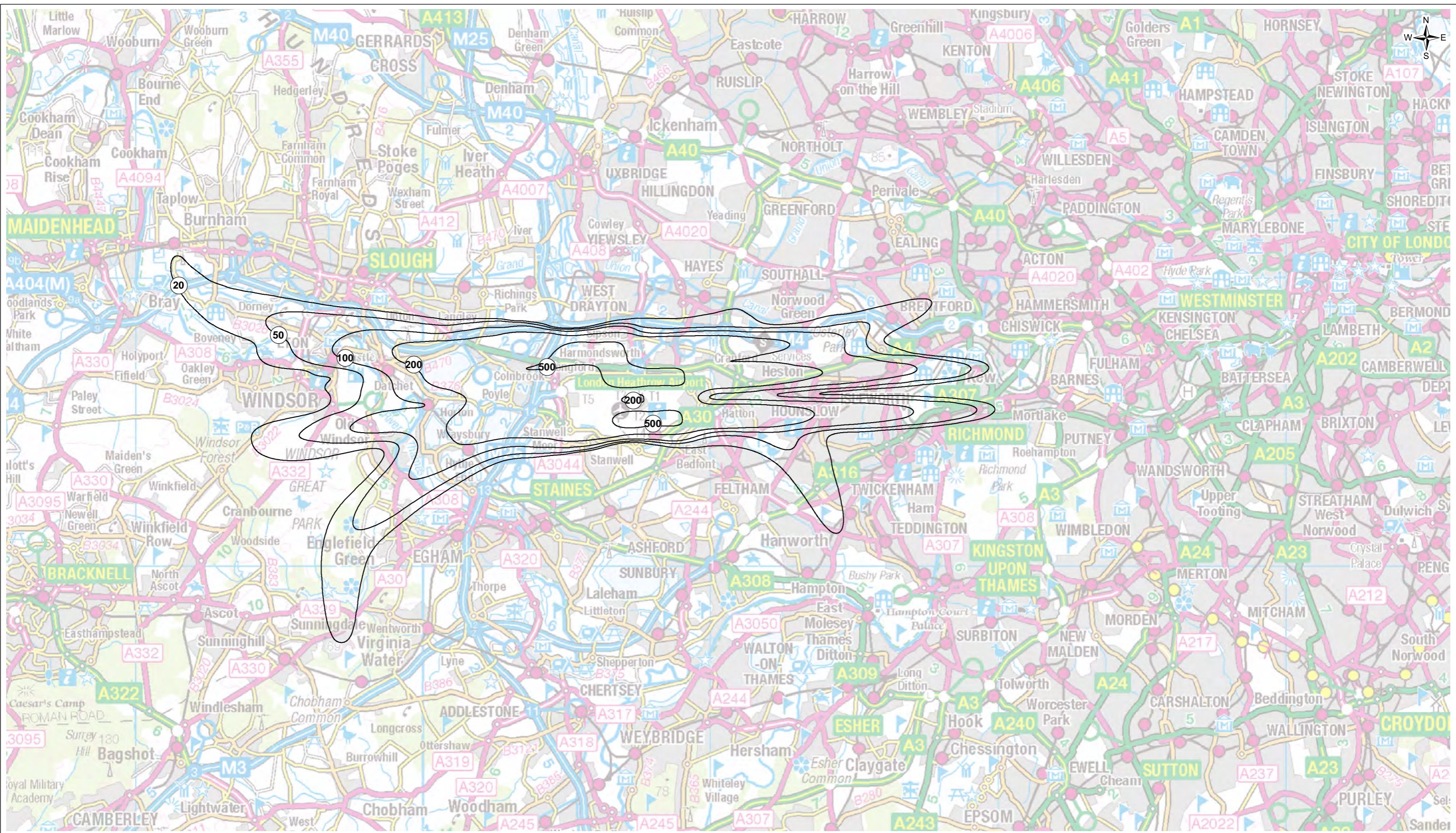
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2050	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise New' Option L _{Aeq,16h} Contours				JACOBS	
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Client		Airports Commission					
Drawing No.		B4160007_LNA2050					
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Jacobs No. B4160007							
Client No.							



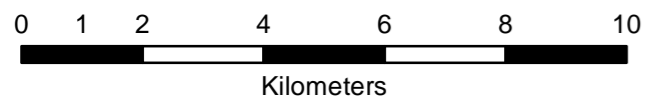
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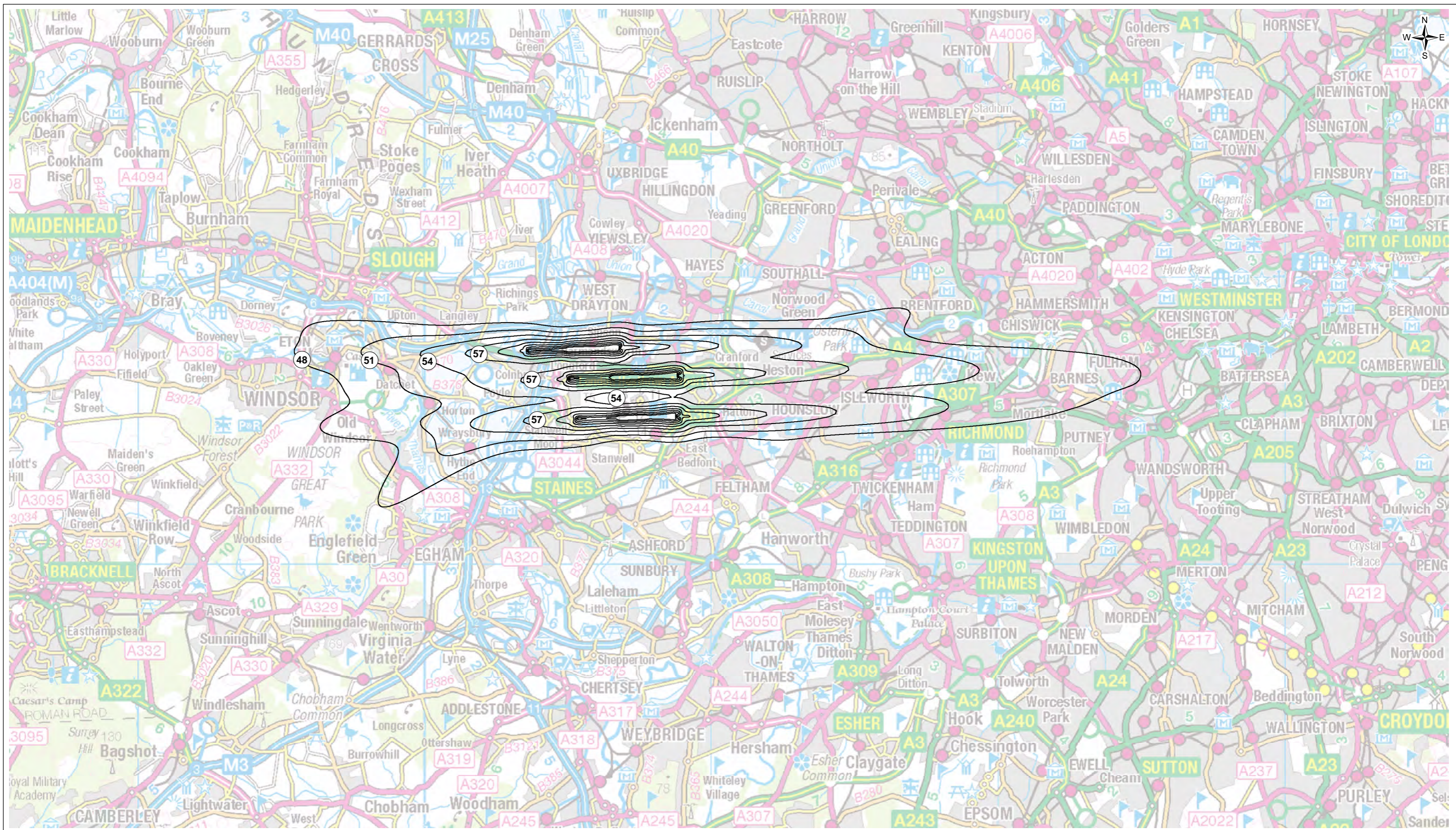
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2051	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise New' Option N70 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Drawing No.		B4160007_LNA2051					



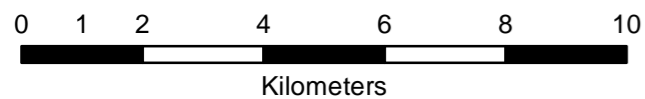
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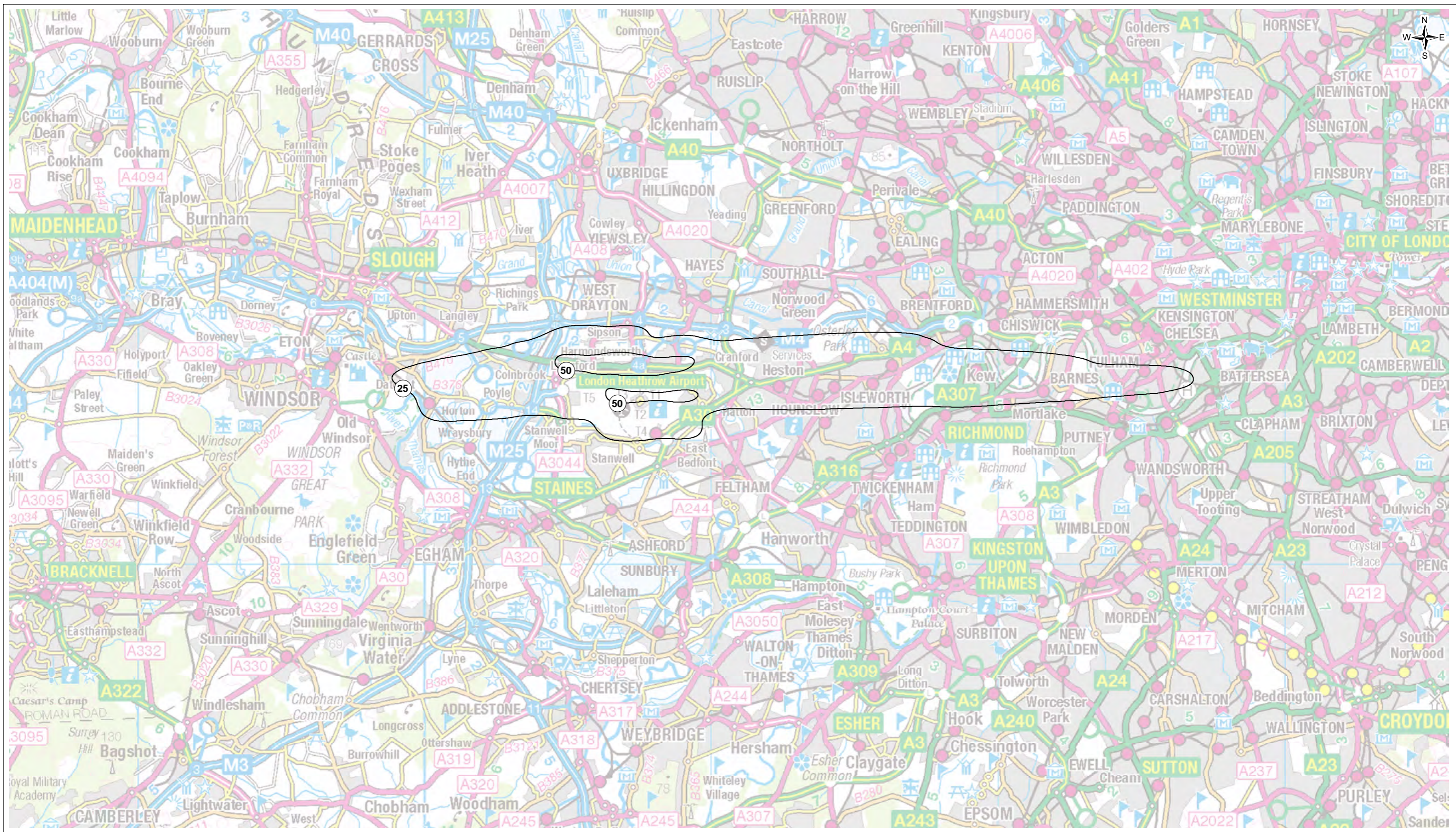
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— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2052	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Minimise New' Option $L_{Aeq,8h}$ Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Scale @ A3 1:125,000							
DO NOT SCALE							
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA2052					



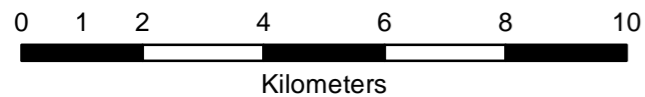
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Project
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FIGURE LNA2053

Drawing Title
**Heathrow Airport
2030 Northwest Runway 'Minimise New' Option
N60 Contours**

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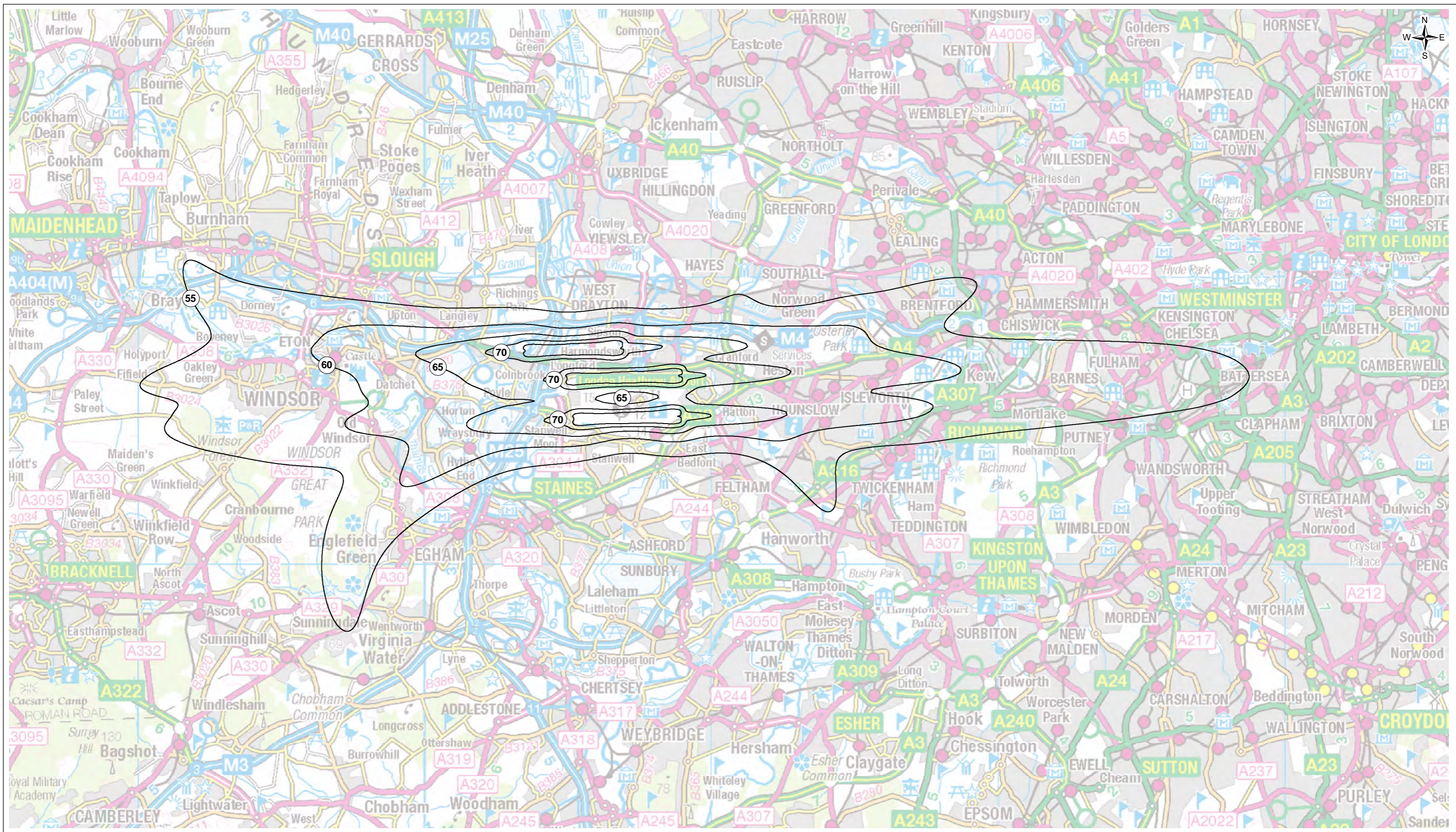
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Client No.

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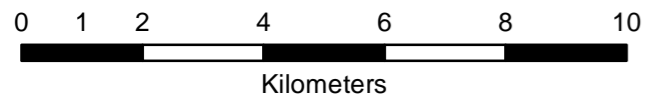
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— L_{den} dB



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**AIRPORTS COMMISSION
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FIGURE LNA2054

Drawing Title
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2030 Northwest Runway 'Minimise New' Option
Lden Contours**



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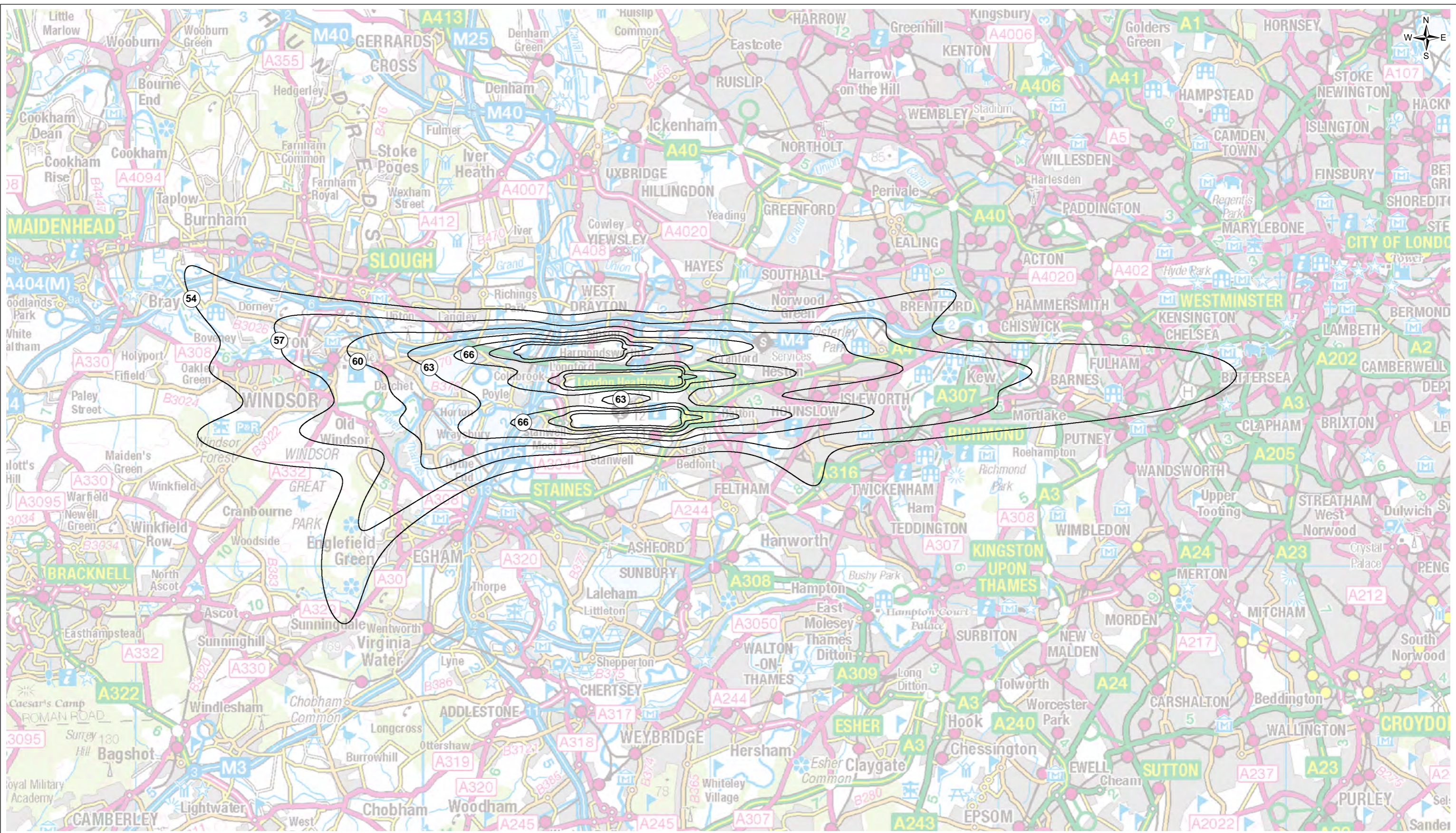
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Client No.

Drawing No. B4160007_LNA2054





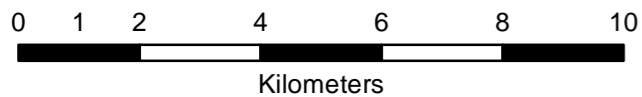
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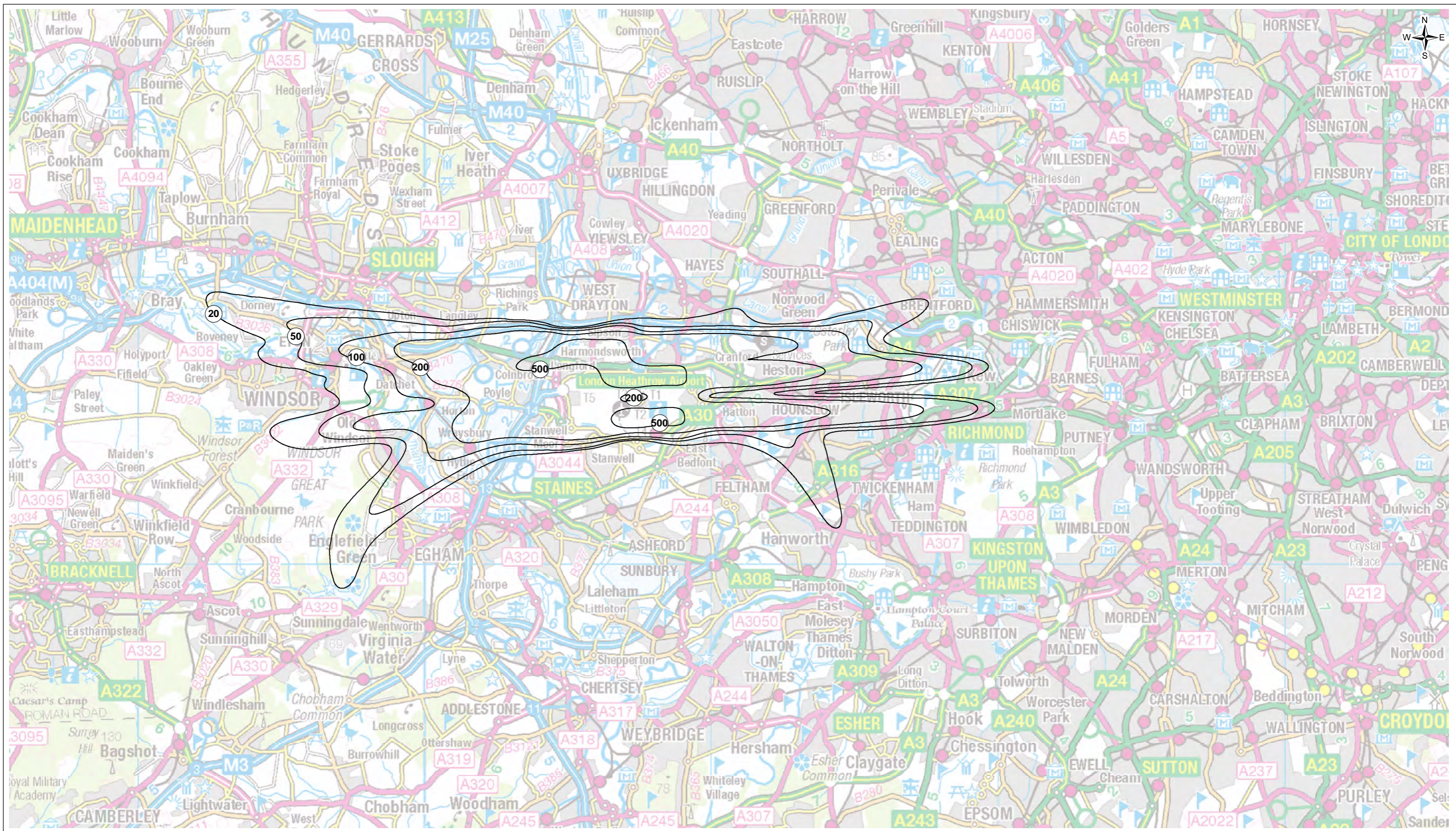
— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2055
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise New' Option L _{Aeq,16h} Contours				
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Drawing No.						
Drawing No.		B4160007_LNA2055				

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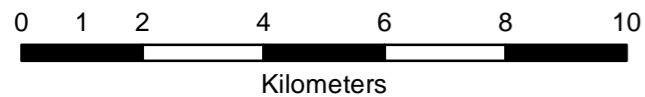
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Project
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FIGURE LNA2056

Drawing Title
**Heathrow Airport
2040 Northwest Runway 'Minimise New' Option
N70 Contours**



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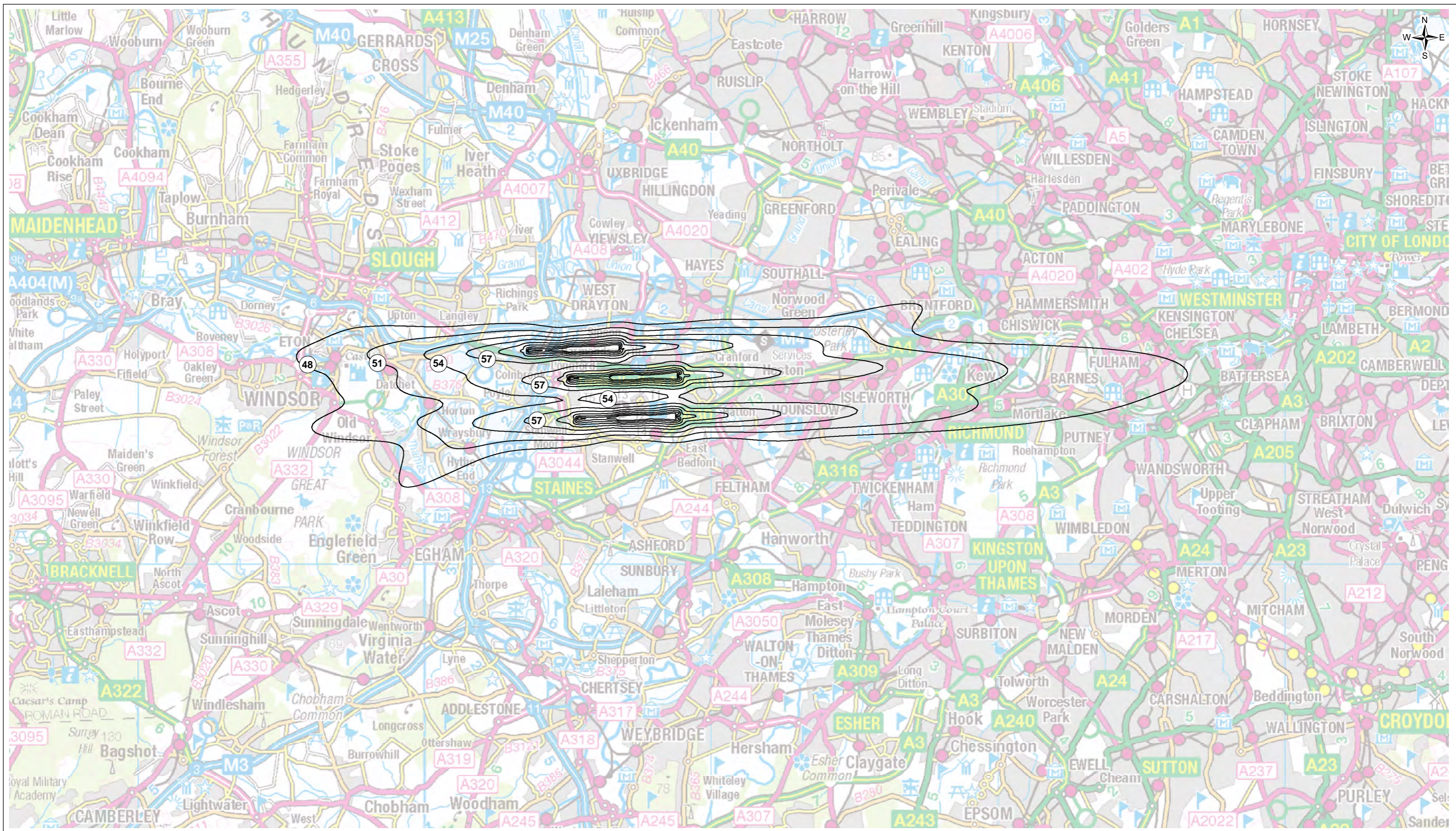
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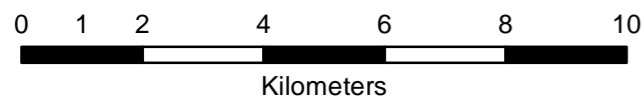
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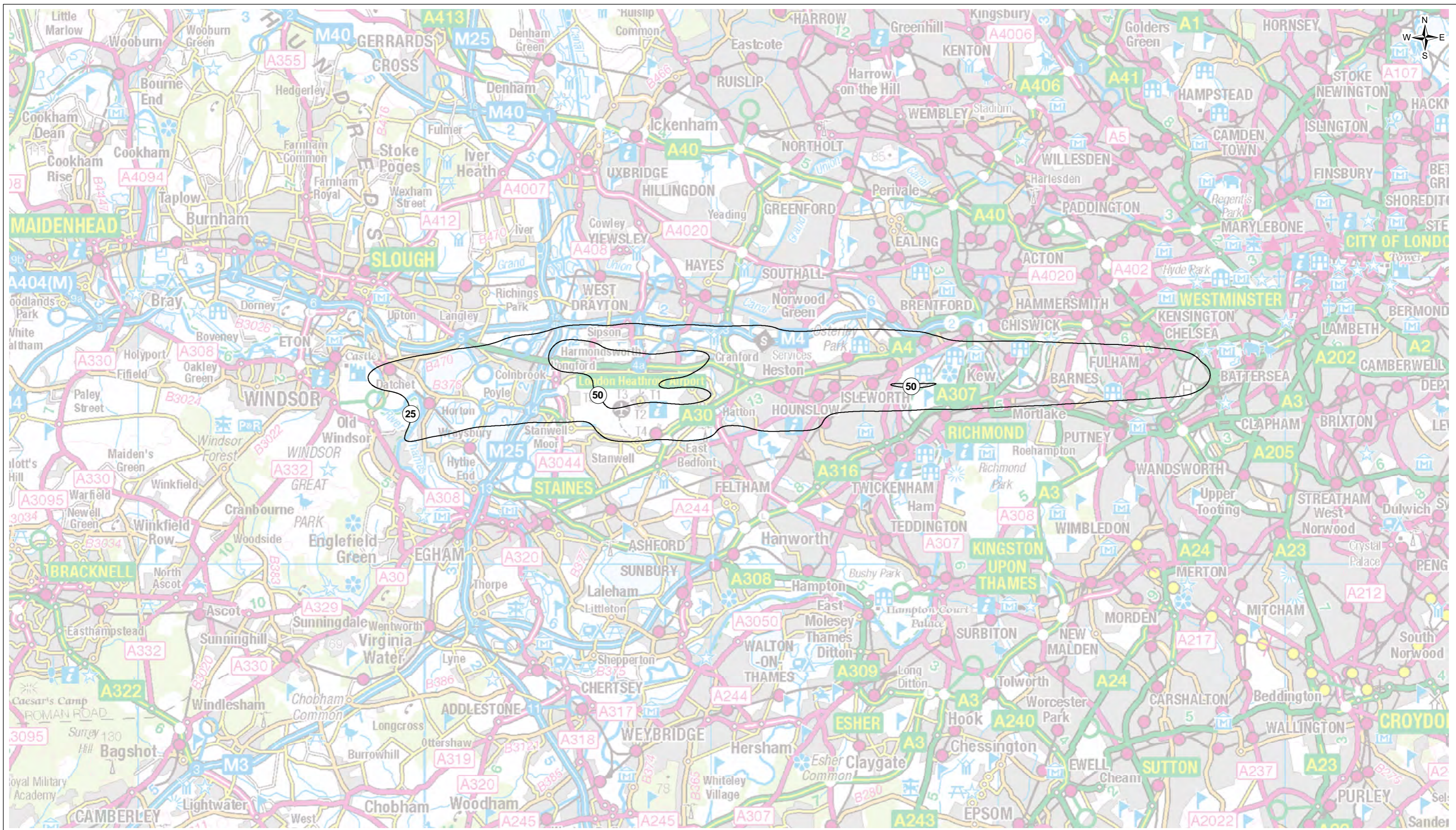
— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2057
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise New' Option L _{Aeq,8h} Contours				
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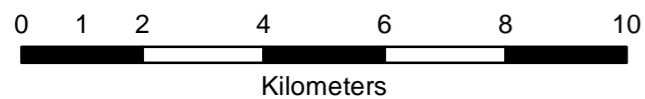
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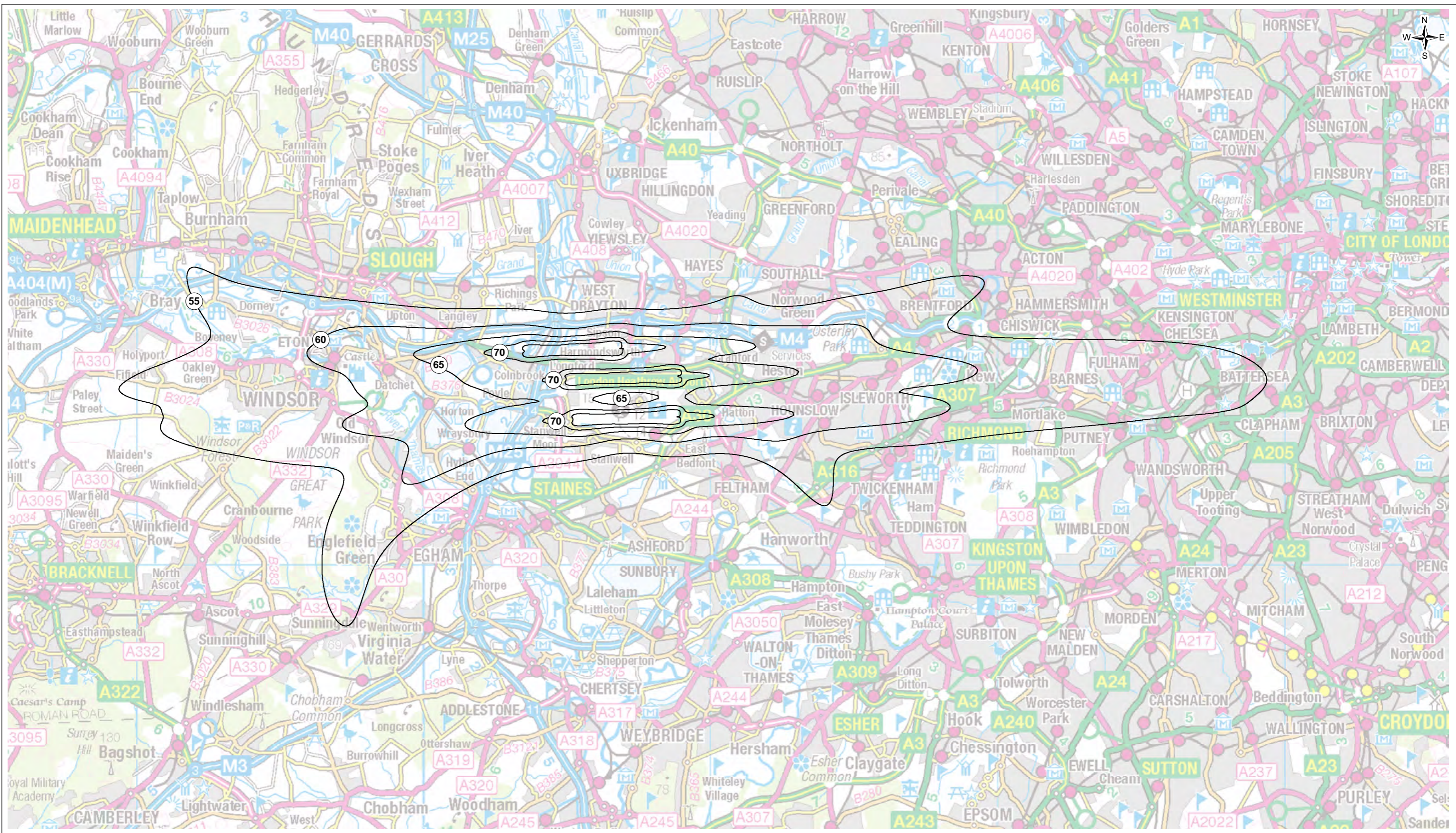
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2058	
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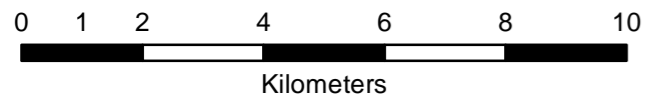
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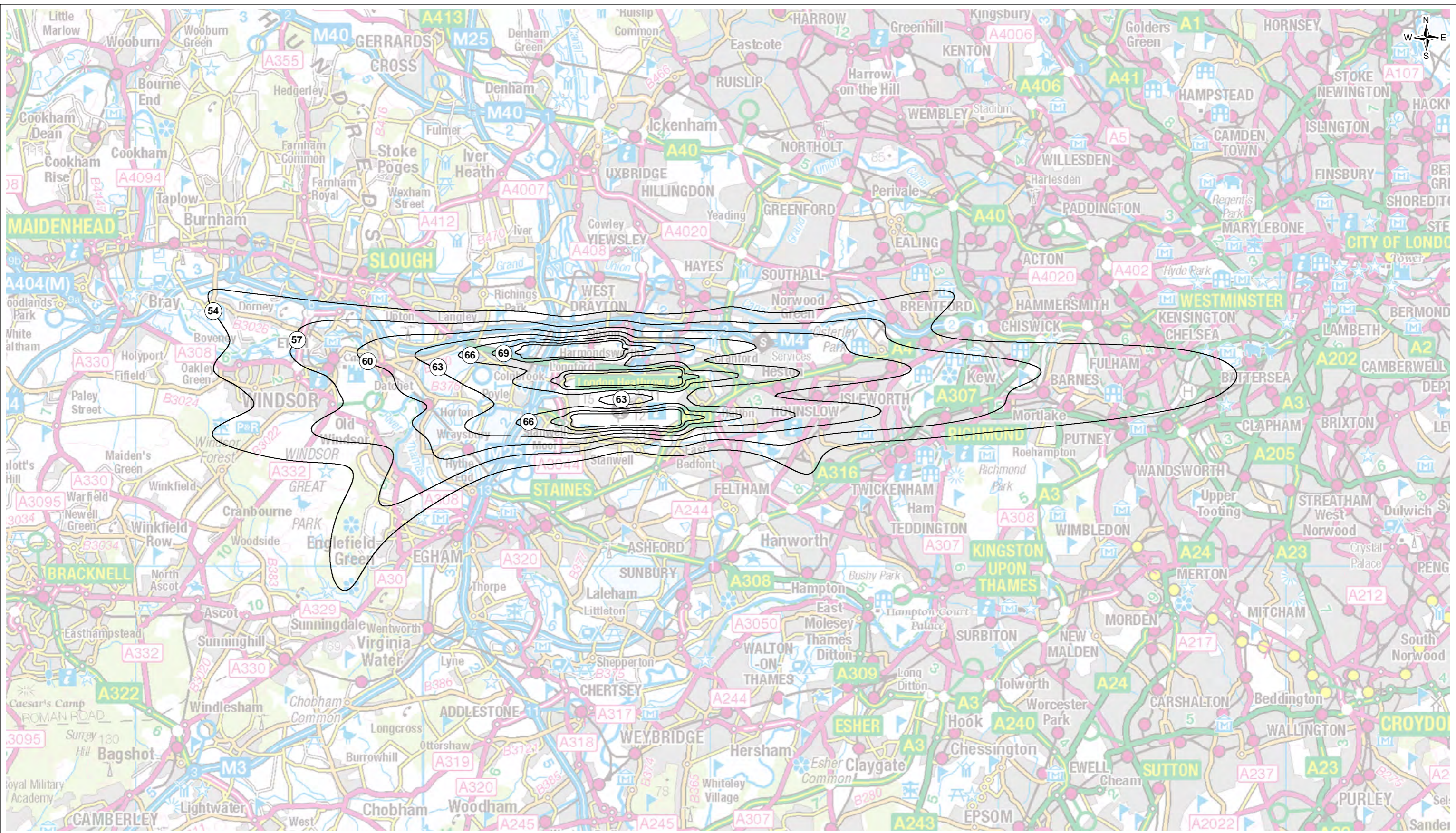
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Legend

— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2059	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Minimise New' Option Lden Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Jacobs No.		B4160007				Client	
Client No.							
Drawing No.		B4160007_LNA2059					



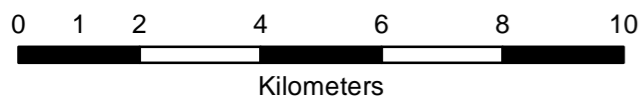
The Noise contours within this Figure were produced by:
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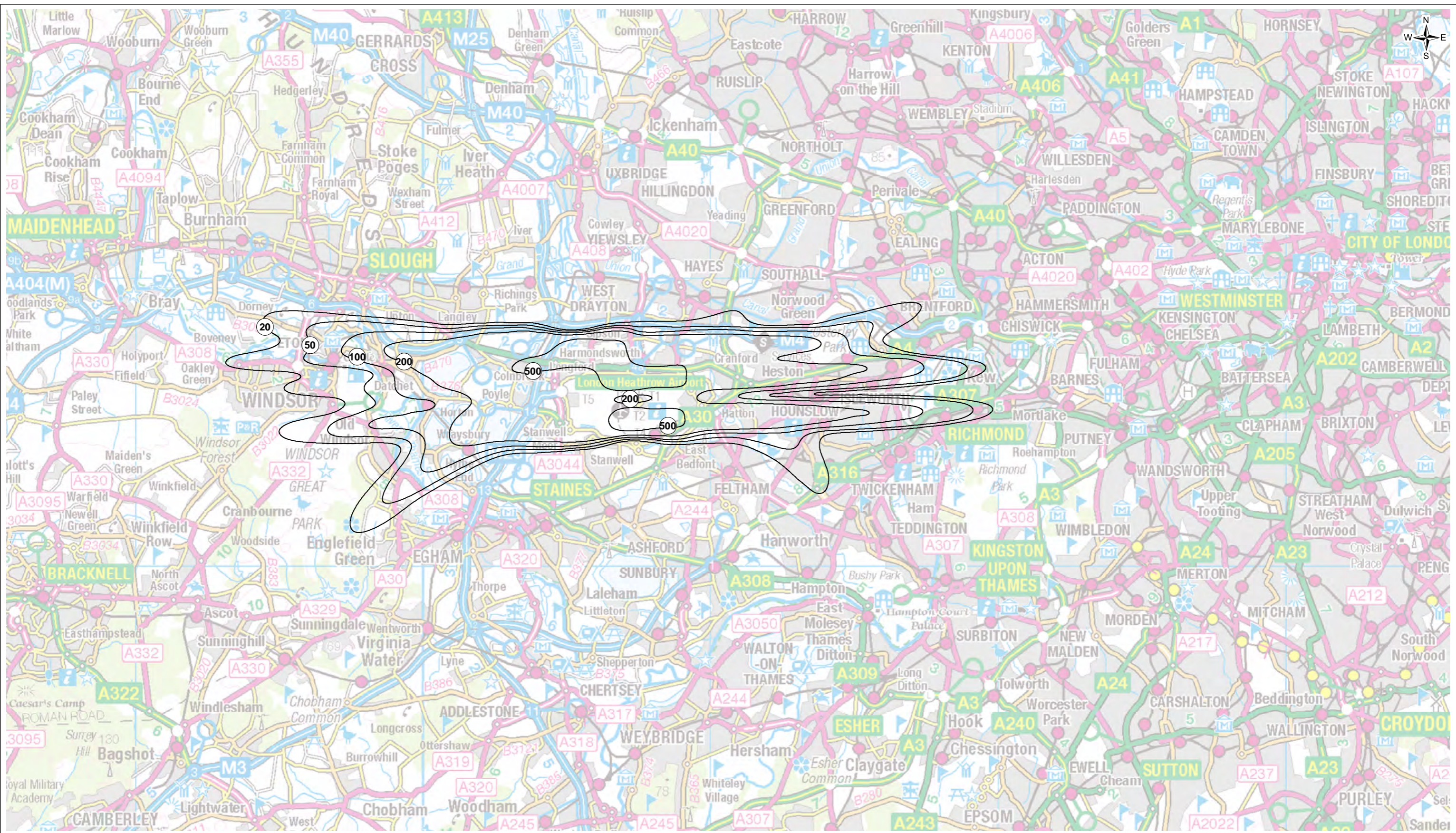
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2060	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise New' Option L _{Aeq,16h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
DO NOT SCALE							
Jacobs No. B4160007		Drawing No. B4160007_LNA2060					



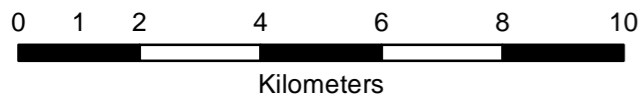
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Legend

— N70



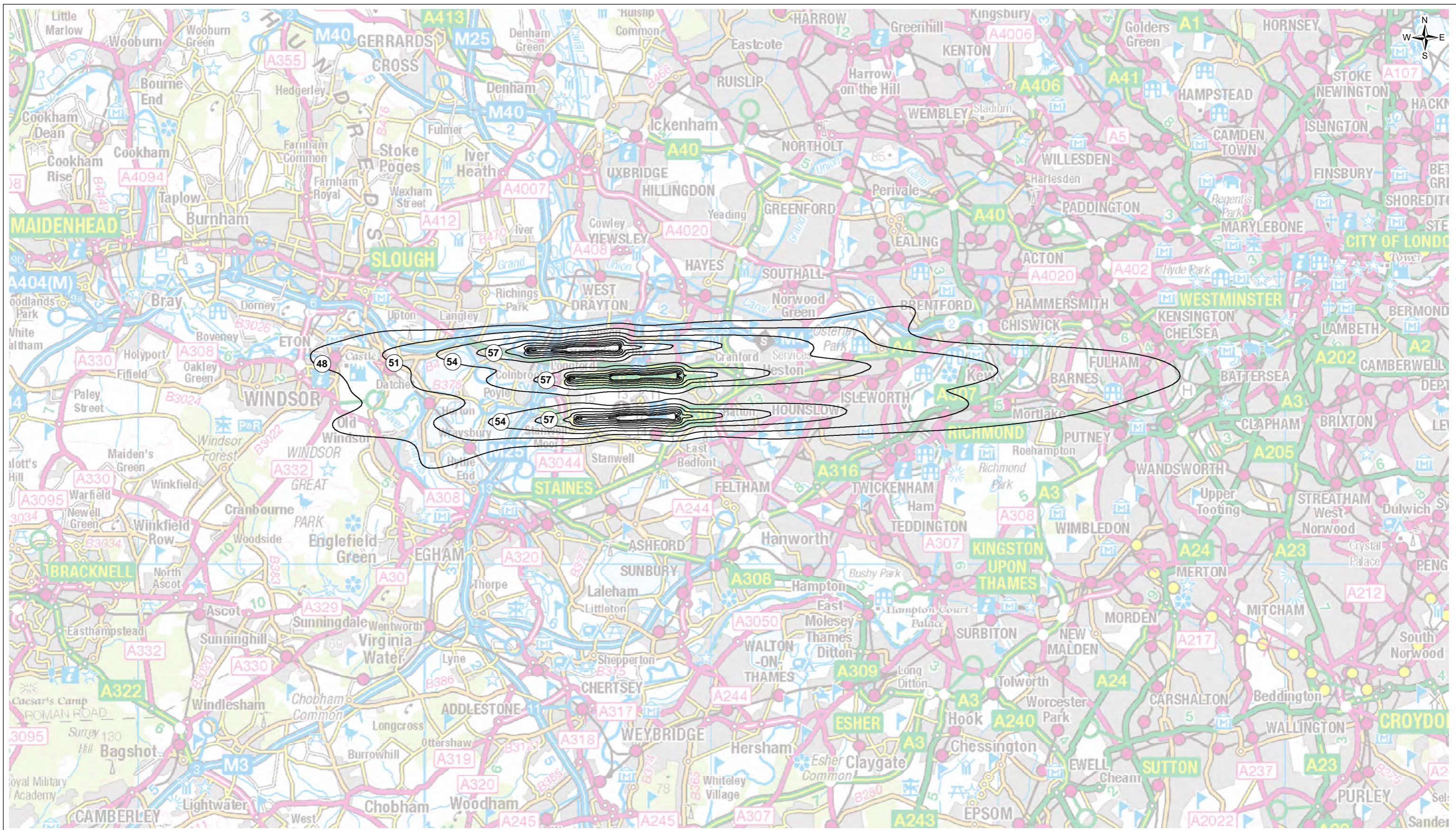
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Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise New' Option N70 Contours			
0	OCT 14	Initial Issue	JA	SW	SW CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd App'd
Scale @ A3 1:125,000		DO NOT SCALE			
Jacobs No. B4160007					
Client No.					
Drawing No.		B4160007_LNA2061			

FIGURE LNA2061



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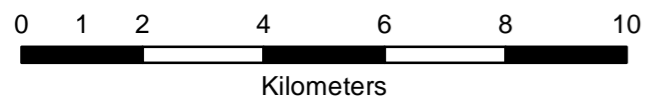
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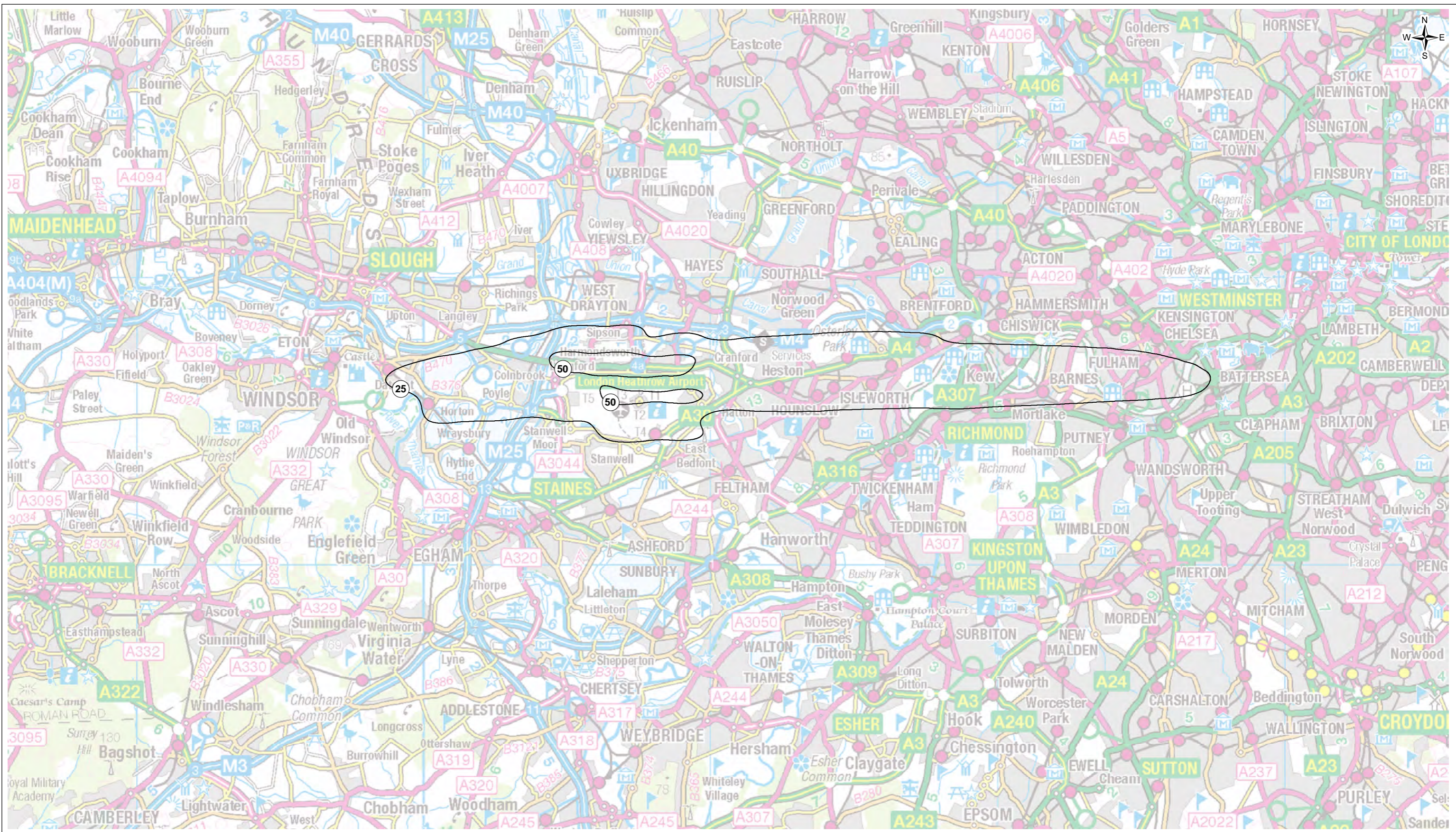
— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2062
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise New' Option $L_{Aeq,8h}$ Contours				
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Scale @ A3 1:125,000		DO NOT SCALE				Client
Jacobs No. B4160007						
Drawing No.						
Drawing No.		B4160007_LNA2062				

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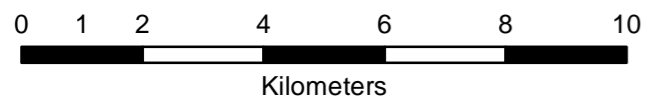
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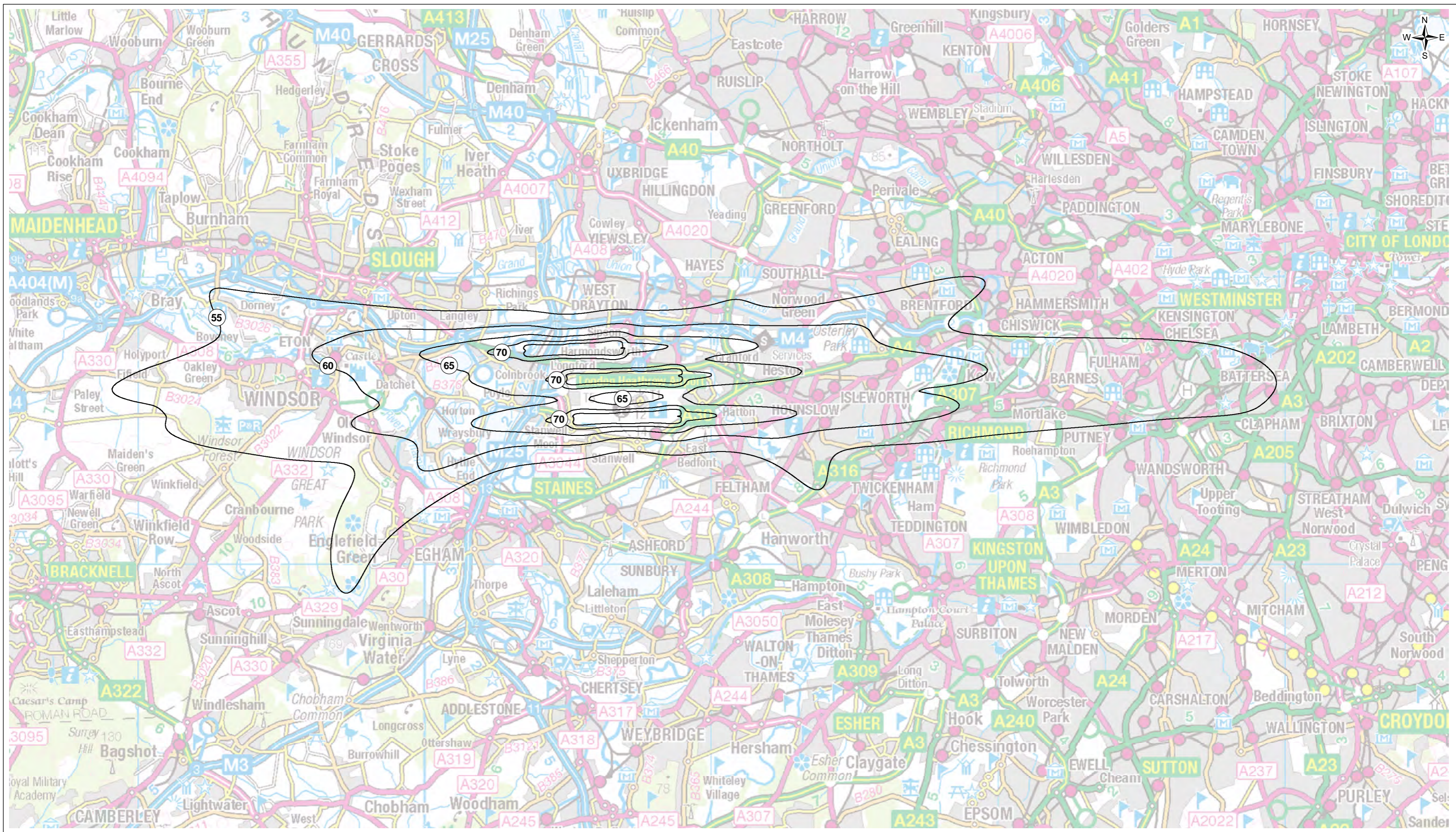
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Legend

— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2063	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise New' Option N60 Contours				JACOBS	
0		OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3		1:125,000				DO NOT SCALE	
Jacobs No.		B4160007				Client	
Client No.							
Drawing No.		B4160007_LNA2063					
						Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	



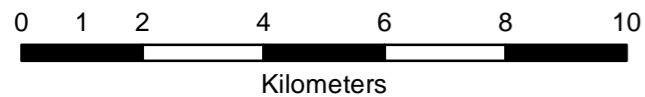
The Noise contours within this Figure were produced by:
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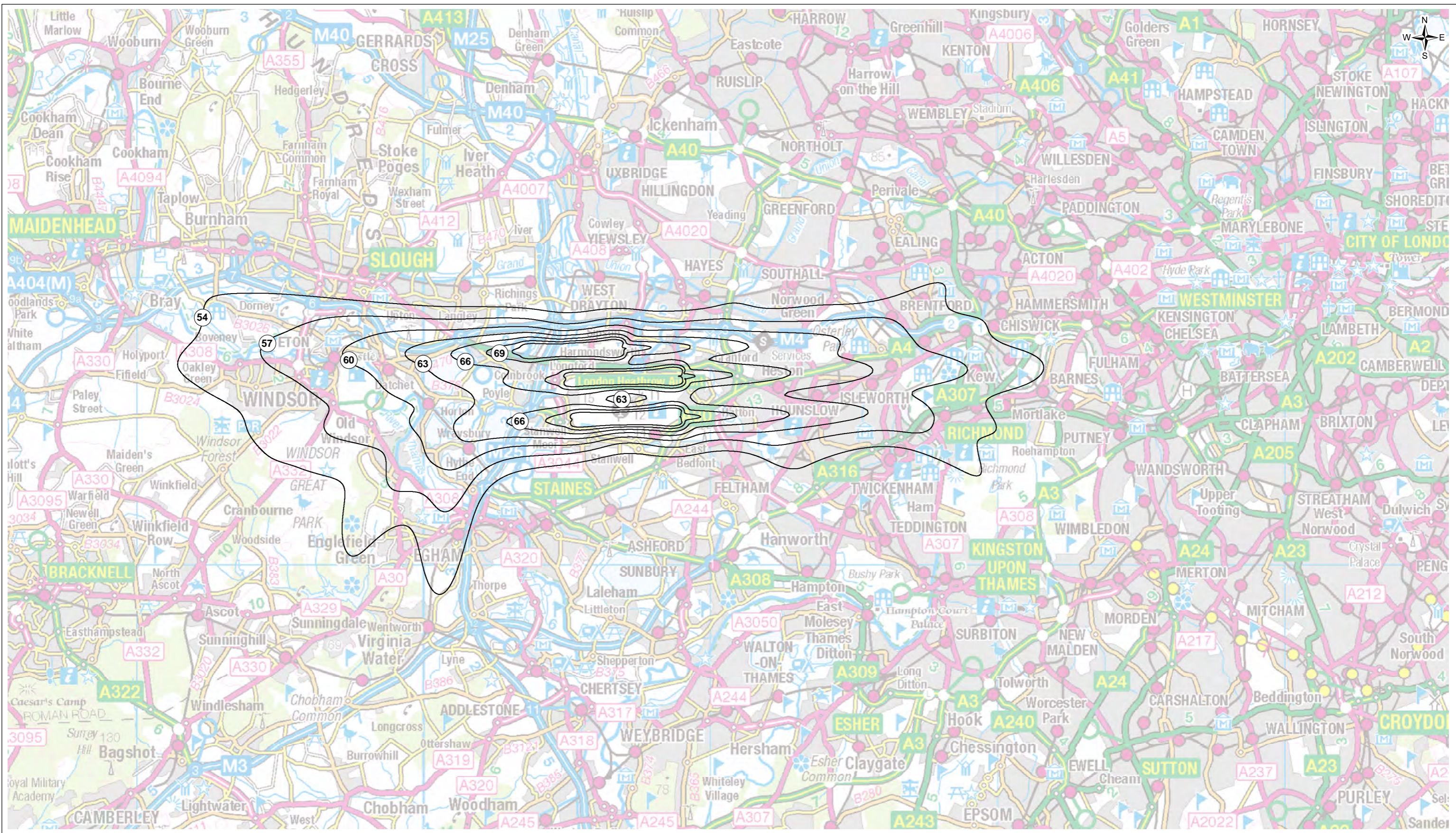
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Legend

— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2064	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Minimise New' Option Lden Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
DO NOT SCALE							
Jacobs No. B4160007		Drawing No. B4160007_LNA2064					



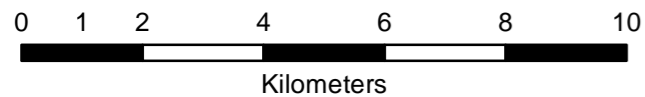
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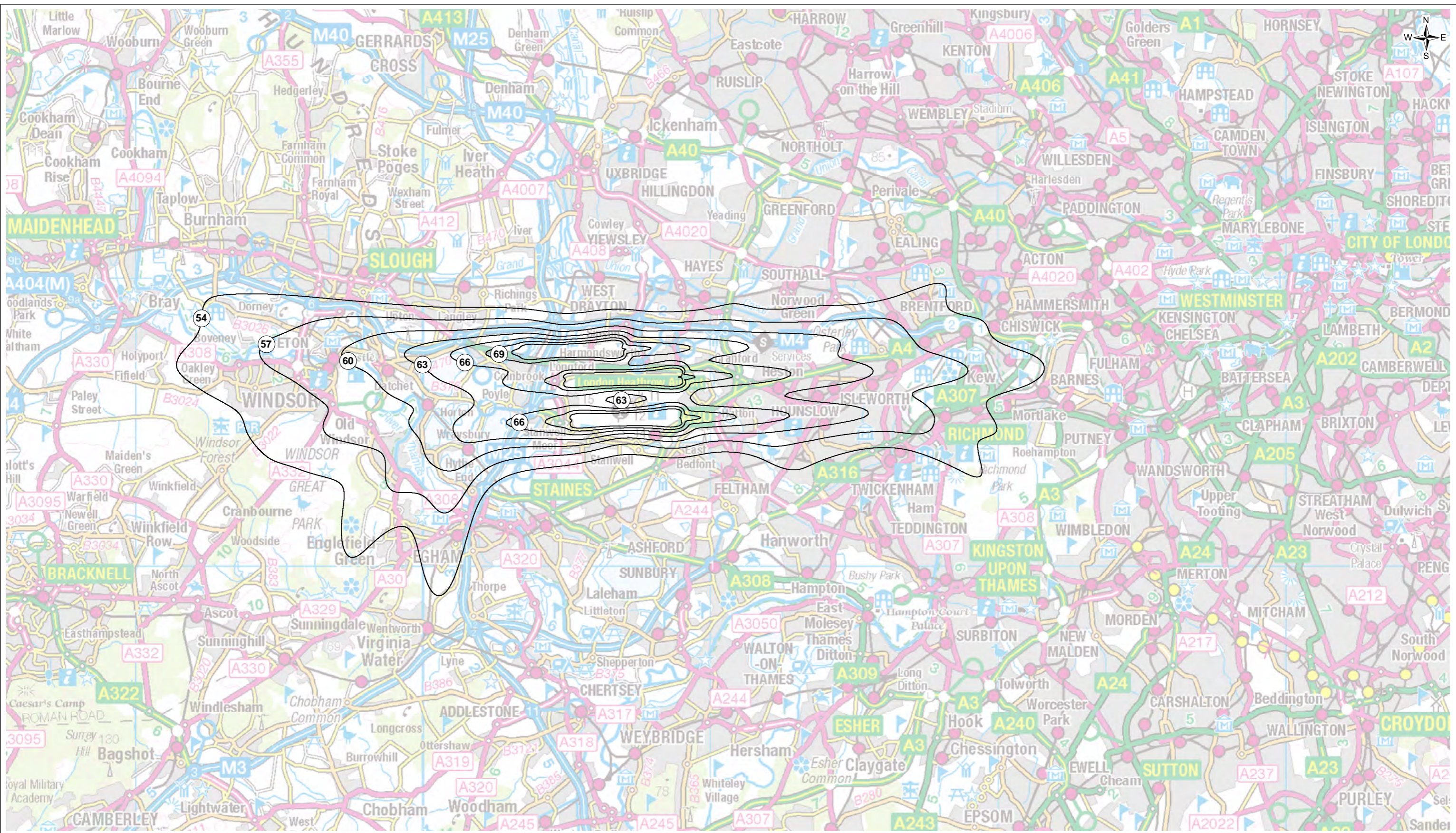
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2065	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Respite' Option L _{Aeq,16h} Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Client		Airports Commission					
0	OCT 14	Initial Issue	JA	SW	SW	CT	
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA2065					



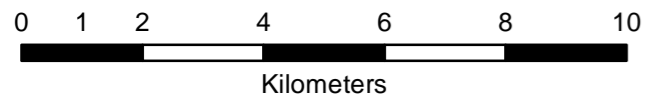
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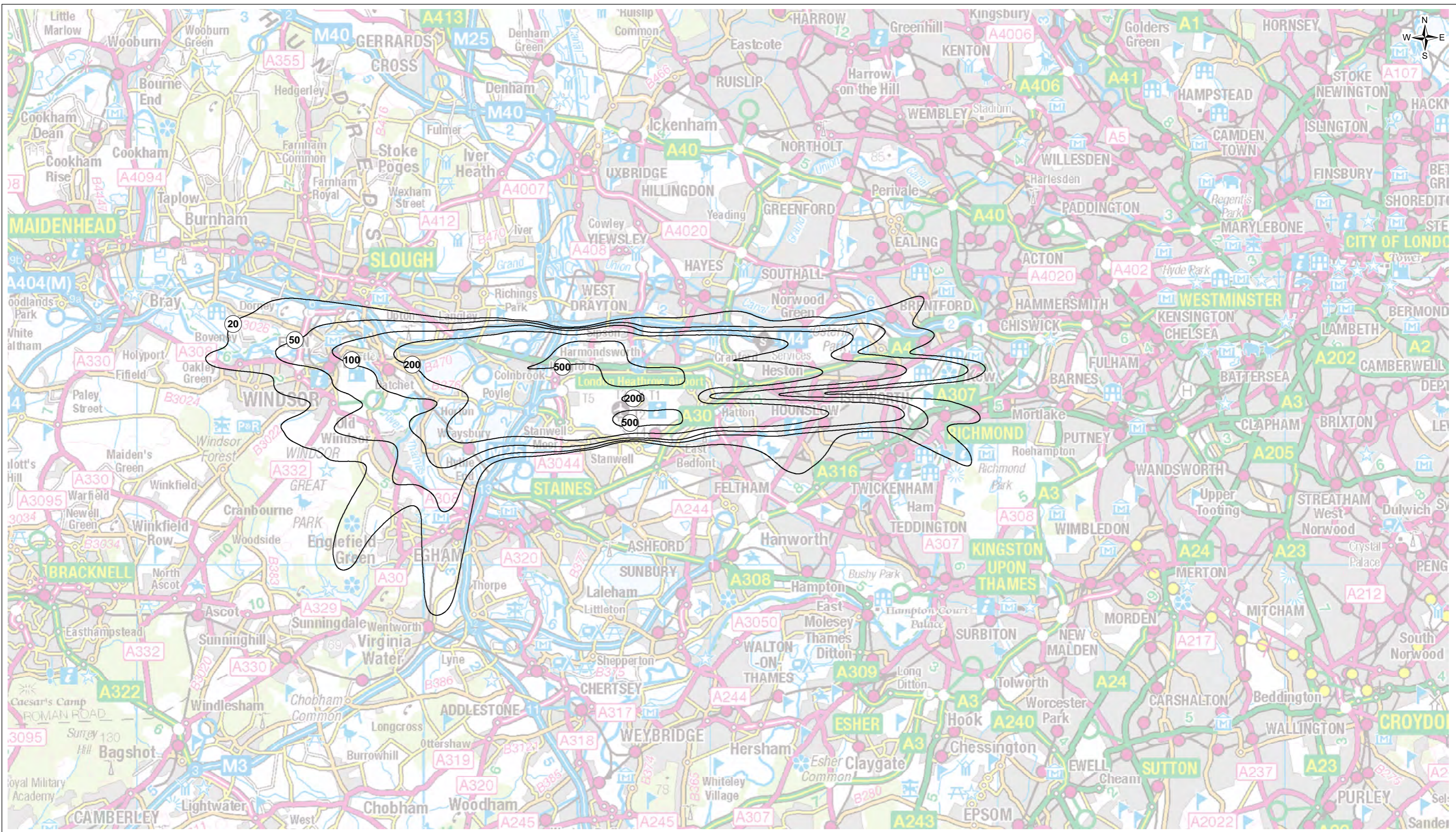
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2065	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Respite' Option L _{Aeq,16h} Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Drawing No.		B4160007_LNA2065				Client Airports Commission	
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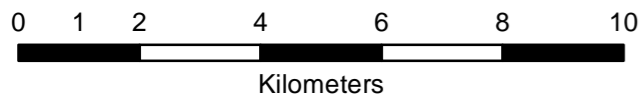
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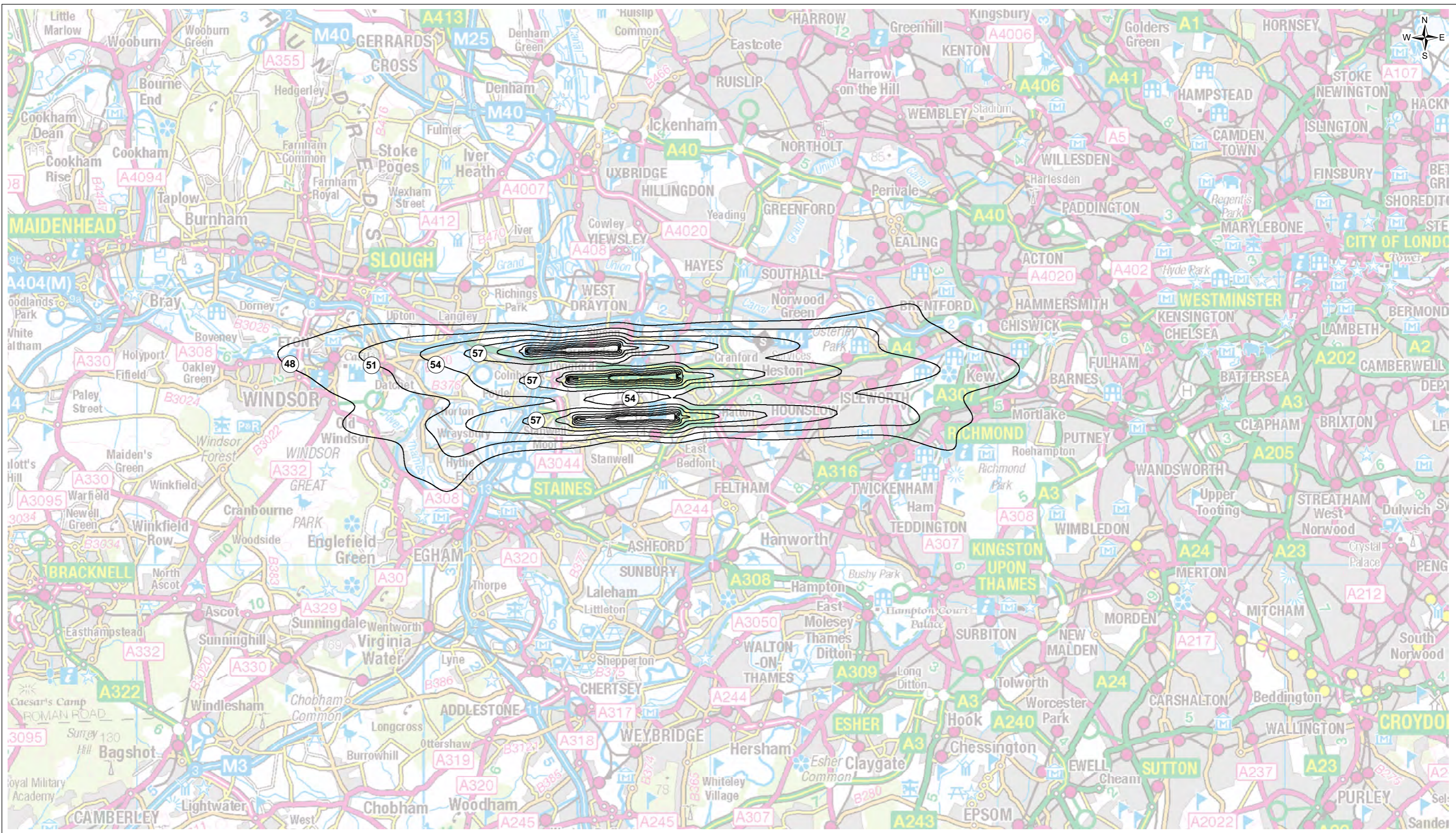
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2066	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Respite' Option N70 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Rev.		Date		Purpose of revision		DO NOT SCALE	
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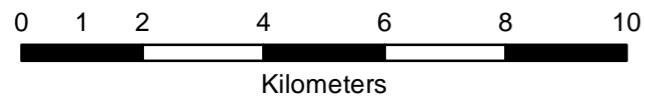
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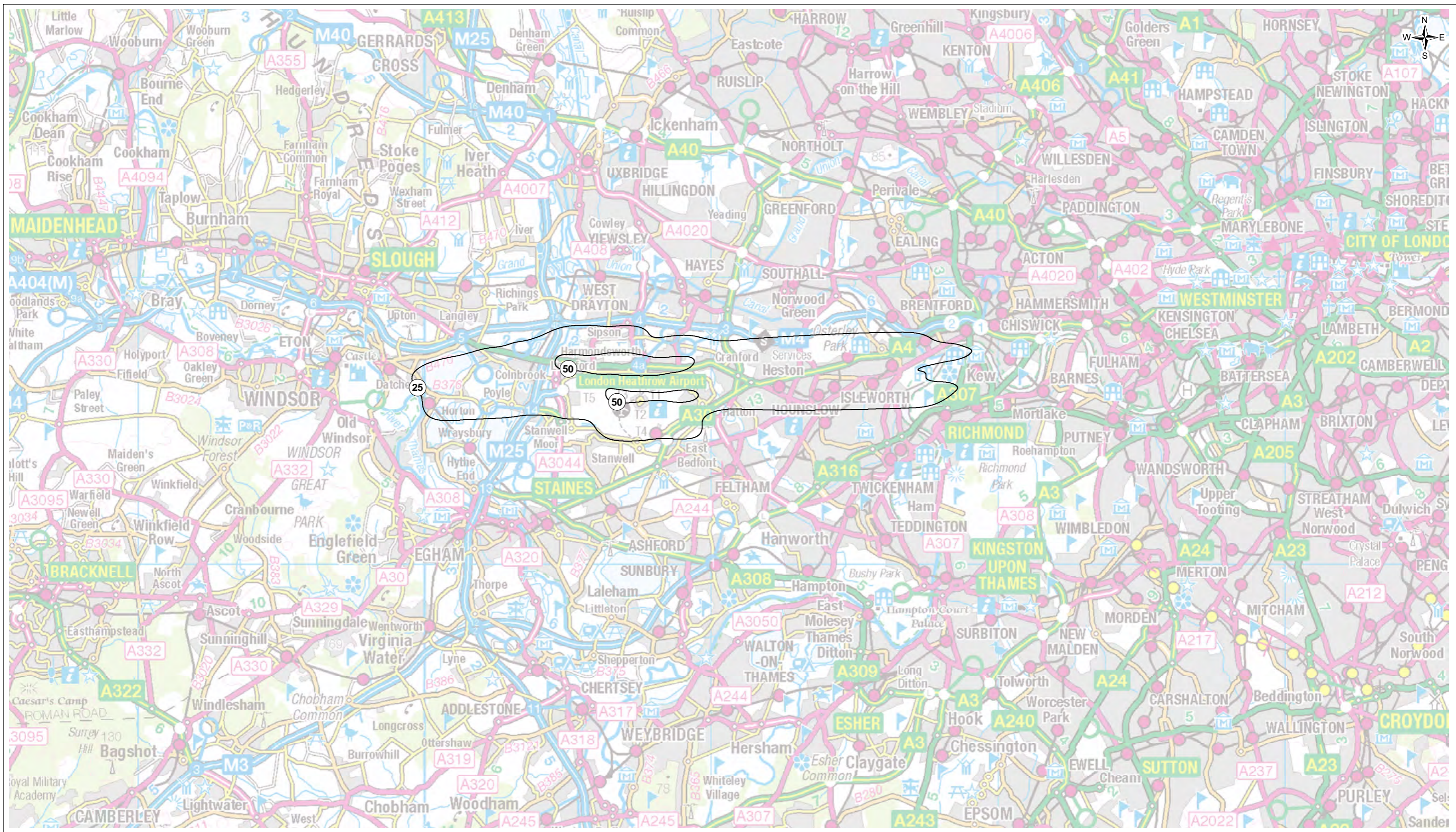
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2067	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Respite' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Drawing No.		B4160007_LNA2067					



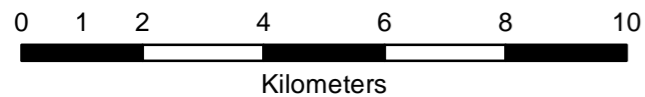
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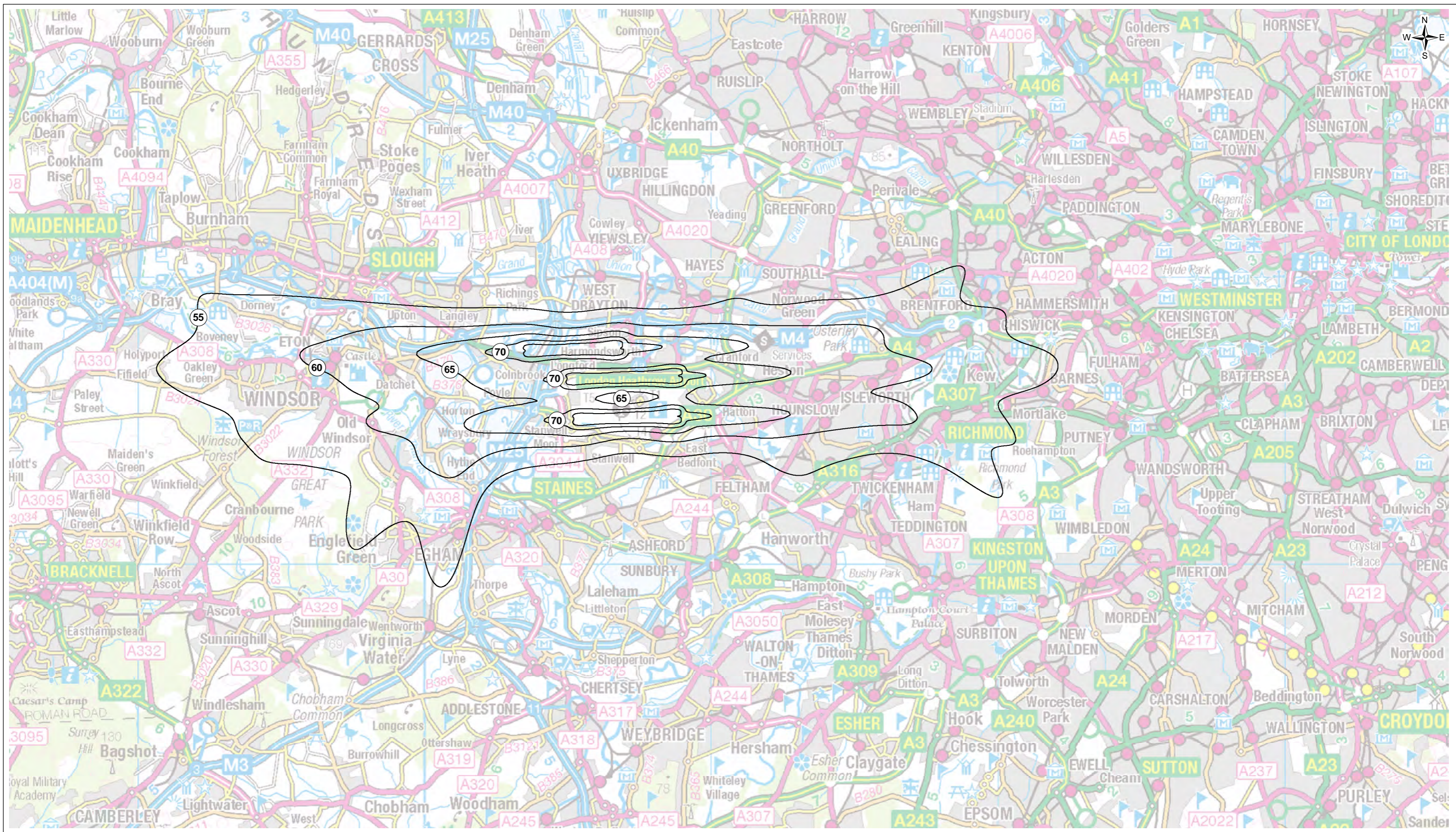
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2068	
Drawing Title		Heathrow Airport 2030 Northwest Runway 'Respite' Option N60 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA2068							



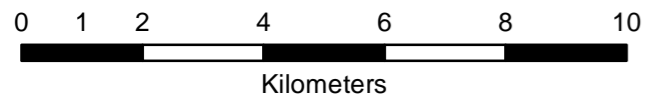
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— L_{den} dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2069

Drawing Title
**Heathrow Airport
2030 Northwest Runway 'Respite' Option
Lden Contours**



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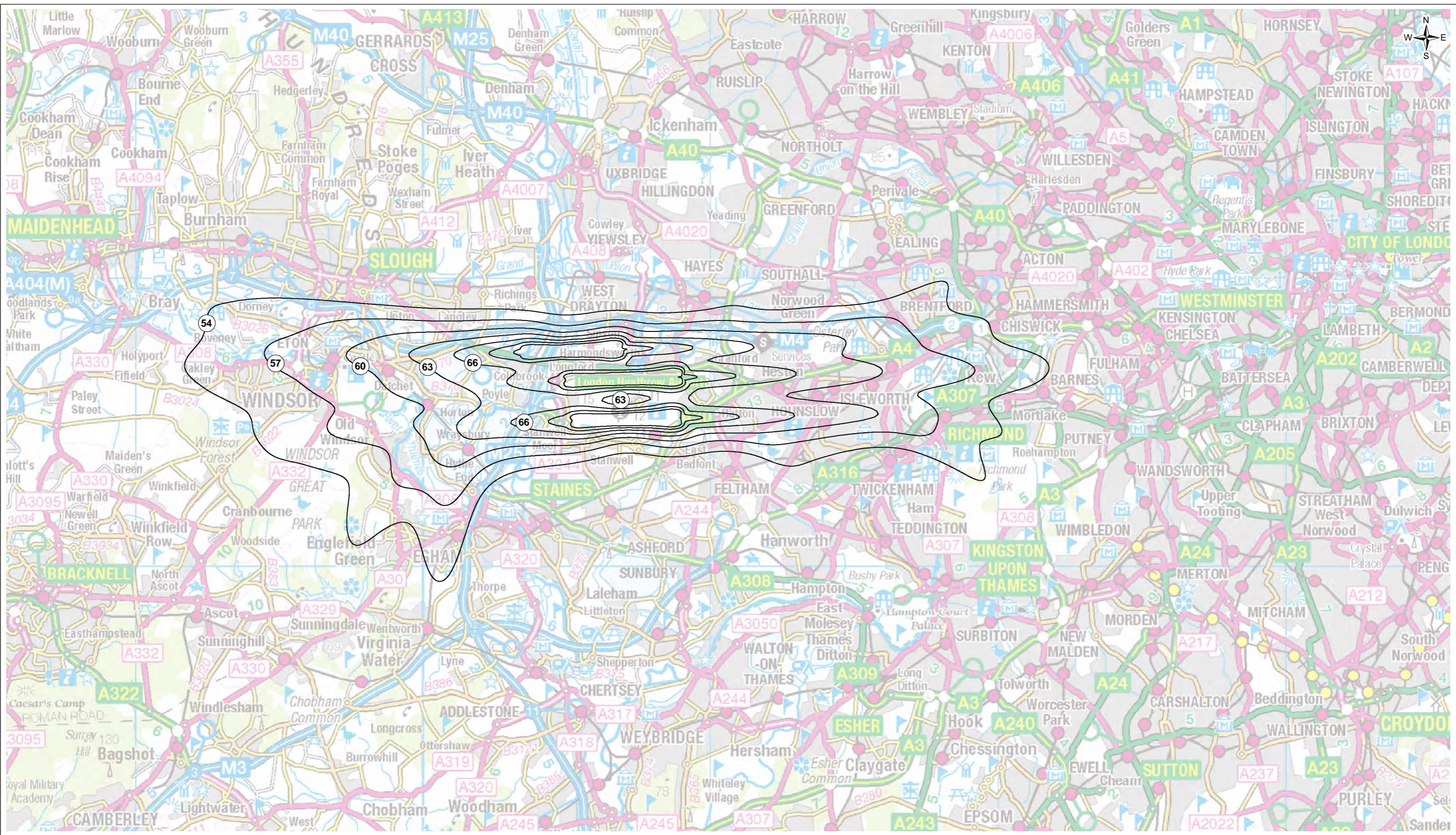
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Drawing No. B4160007_LNA2069





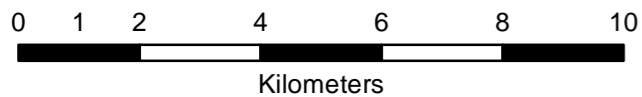
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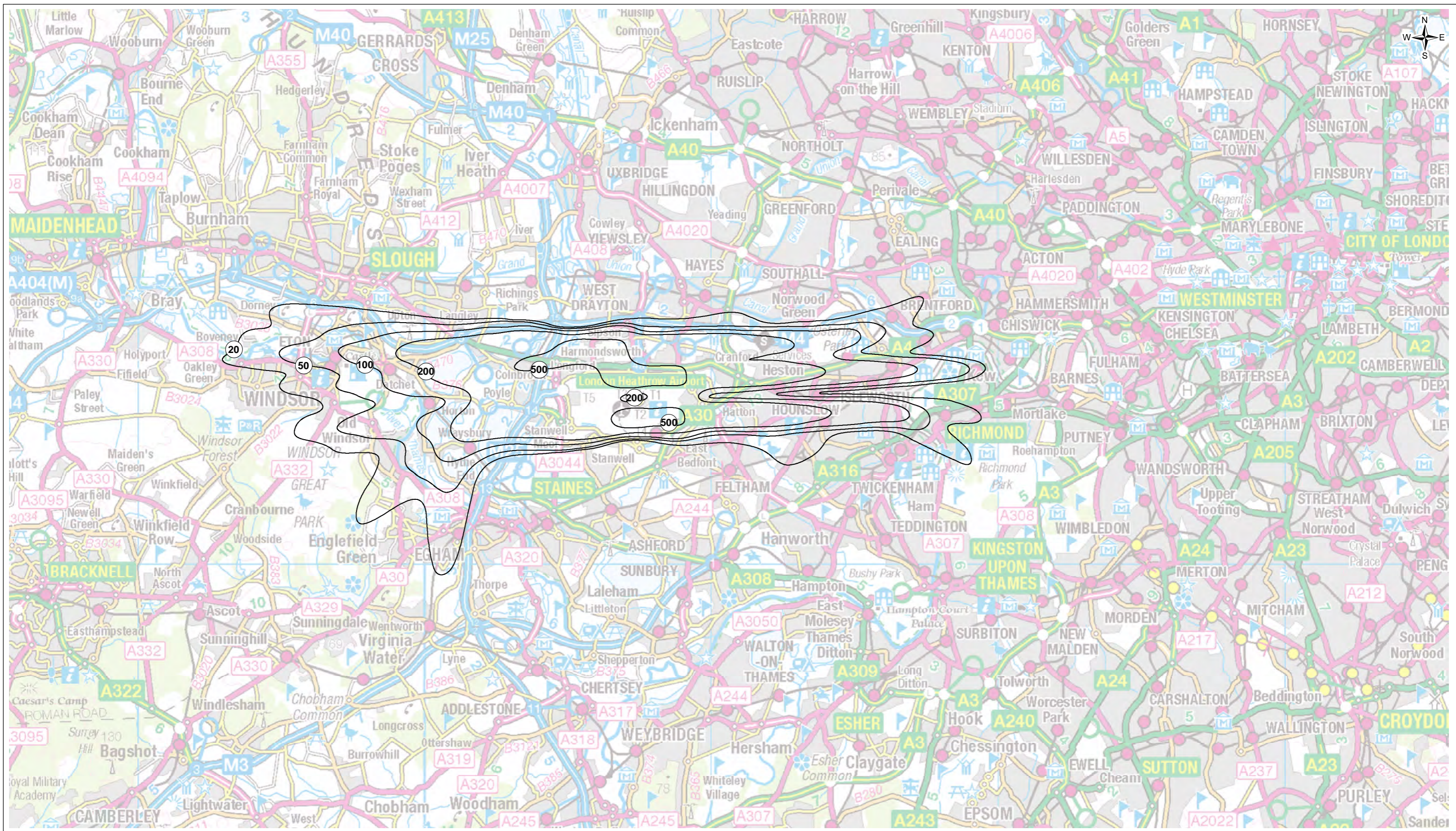
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2070	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Respite' Option L _{Aeq,16h} Contours				JACOBS	
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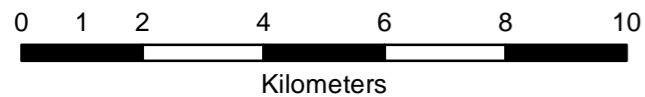
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— N70



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2071

Drawing Title
**Heathrow Airport
2040 Northwest Runway 'Respite' Option
N70 Contours**



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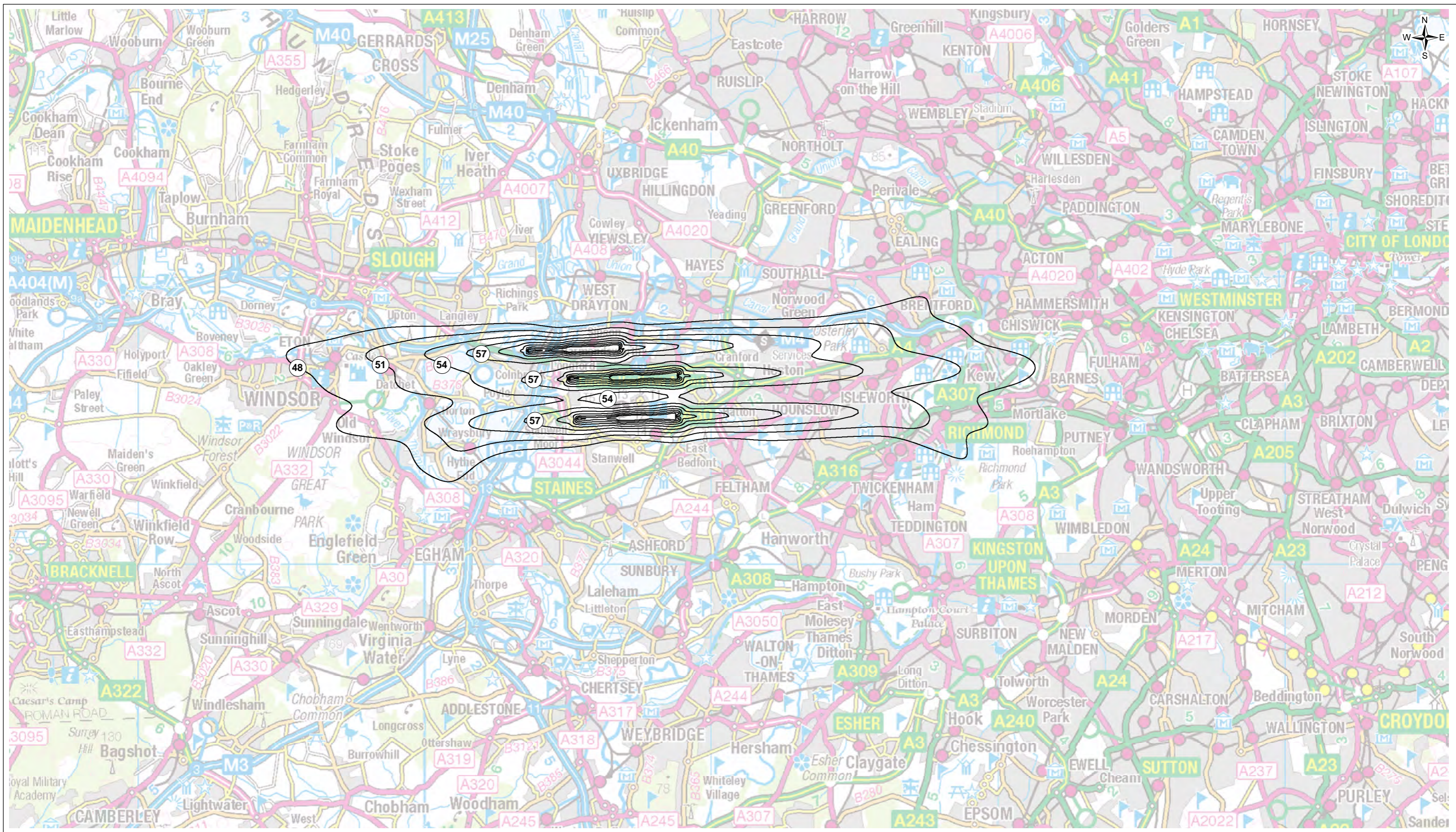
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Jacobs No. B4160007

Client No.

Drawing No. B4160007_LNA2071





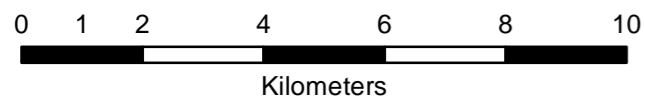
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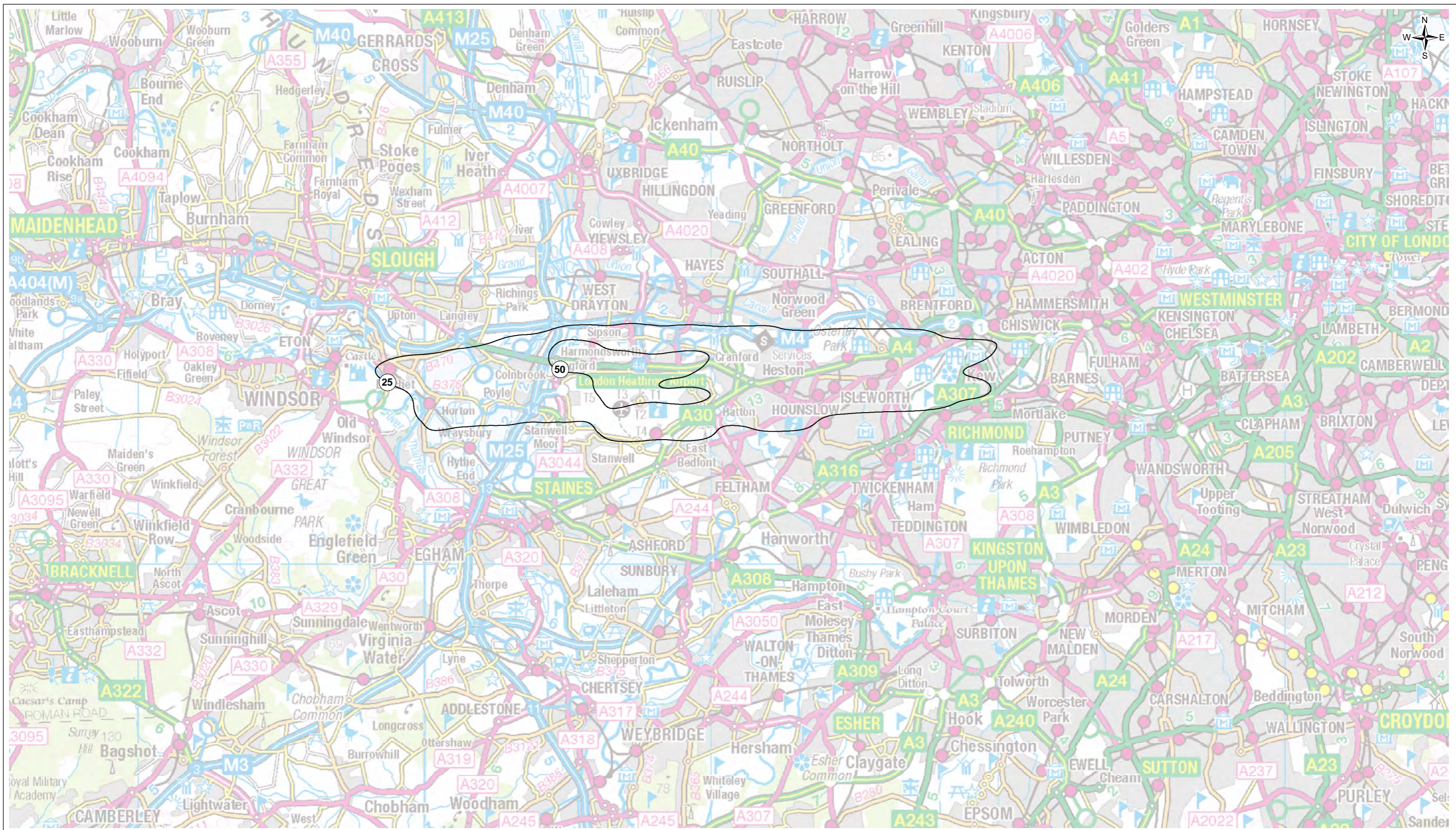
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— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2072	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Respite' Option $L_{Aeq,8h}$ Contours				JACOBS	
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Jacobs No.		B4160007				Client	
Client No.						Airports Commission	
Drawing No.		B4160007_LNA2072					



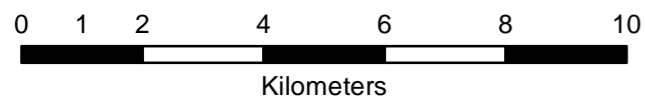
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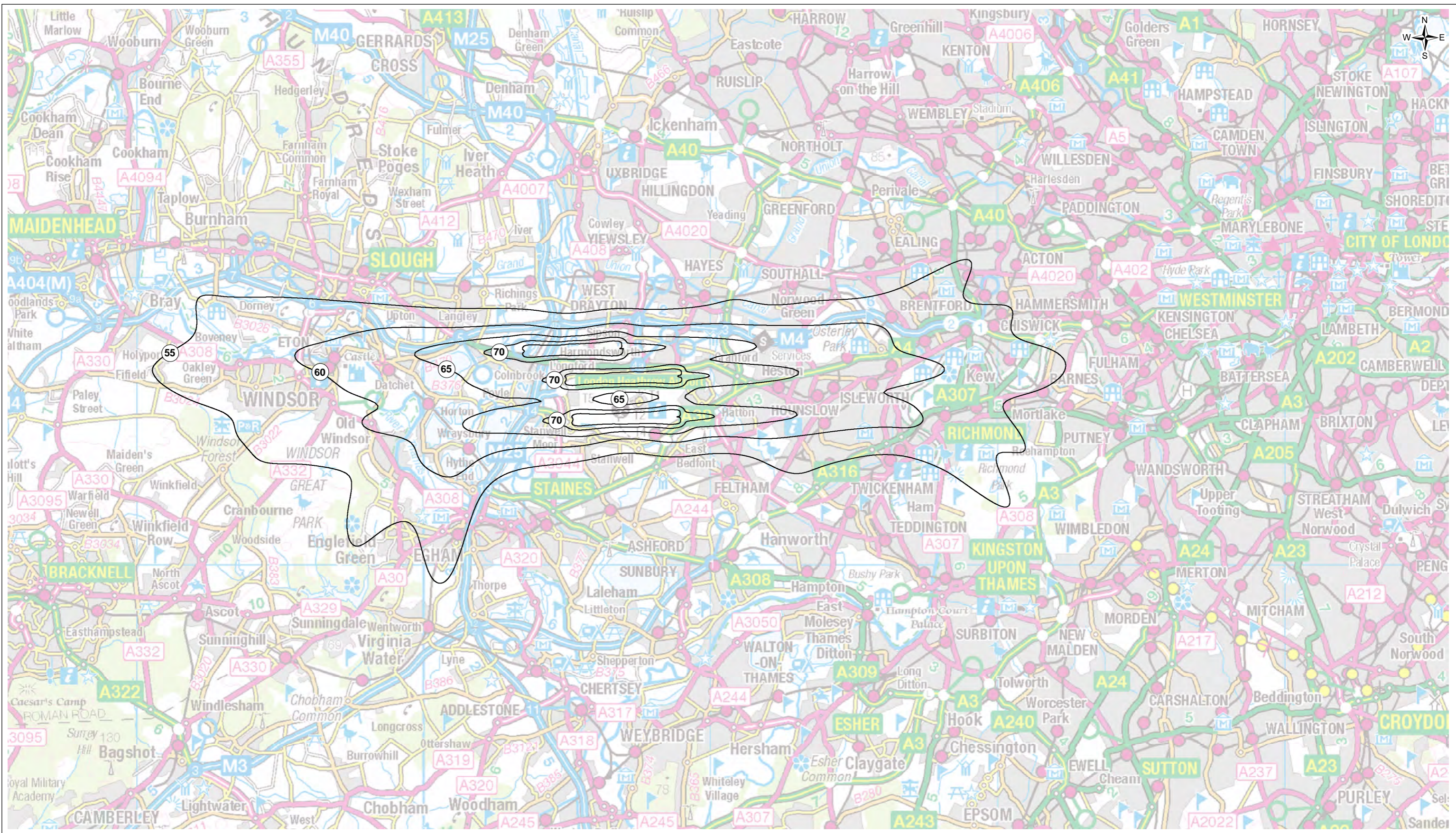
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2073	
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Respite' Option N60 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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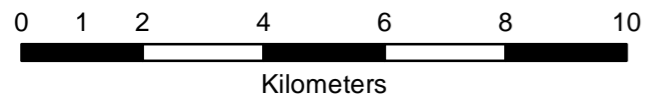
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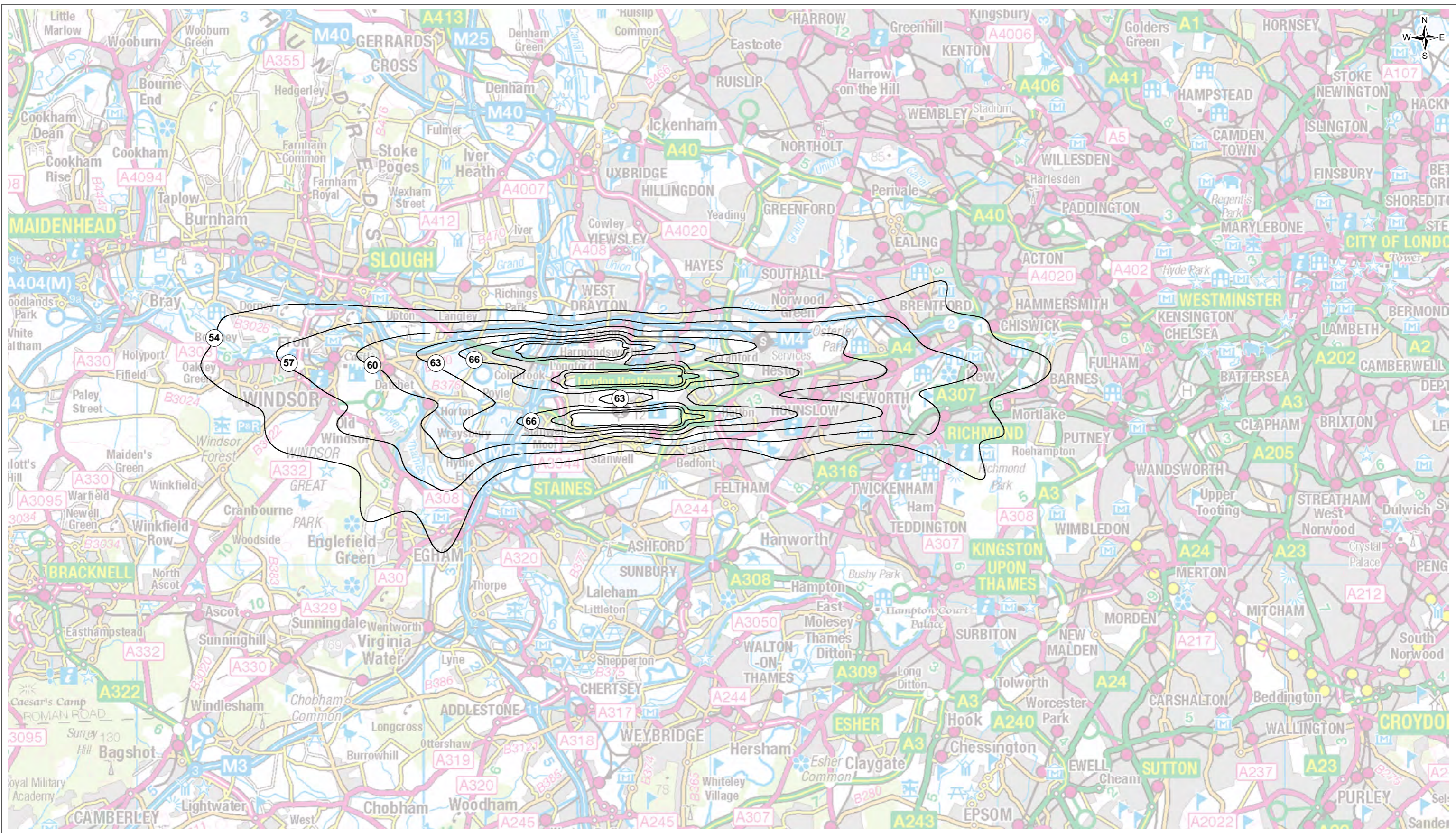
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Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2074
Drawing Title		Heathrow Airport 2040 Northwest Runway 'Respite' Option Lden Contours				
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Jacobs No. B4160007						
Drawing No.						
Drawing No.		B4160007_LNA2074				

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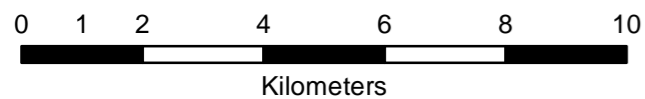
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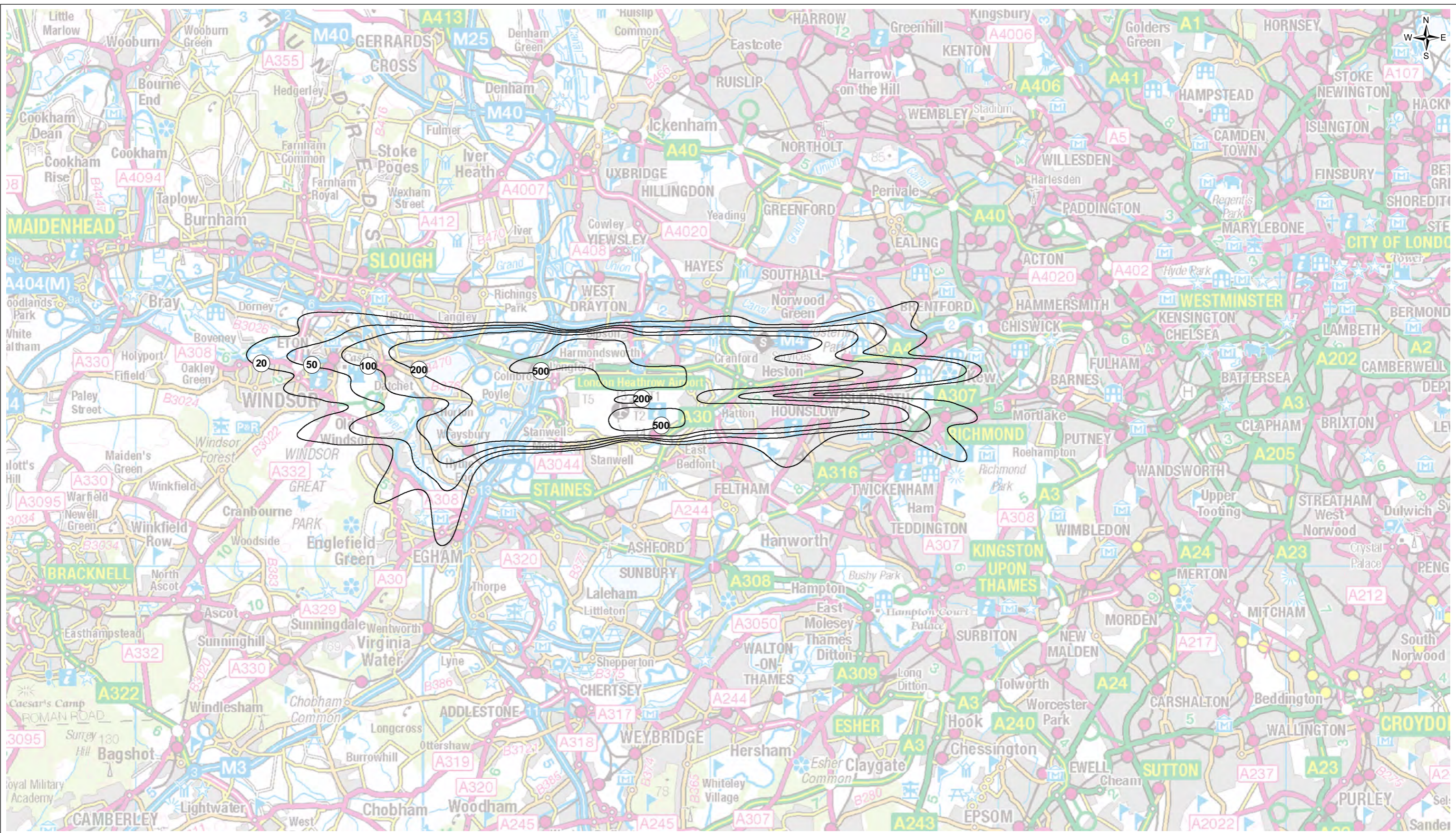
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2075	
Drawing Title		Heathrow Airport 2050 Northwest Runway 'Respite' Option L _{Aeq,16h} Contours				JACOBS	
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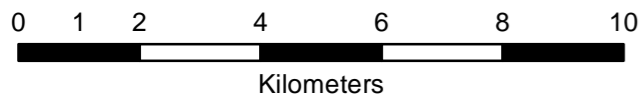
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— N70



Project
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FIGURE LNA2076

Drawing Title
**Heathrow Airport
2050 Northwest Runway 'Respite' Option
N70 Contours**



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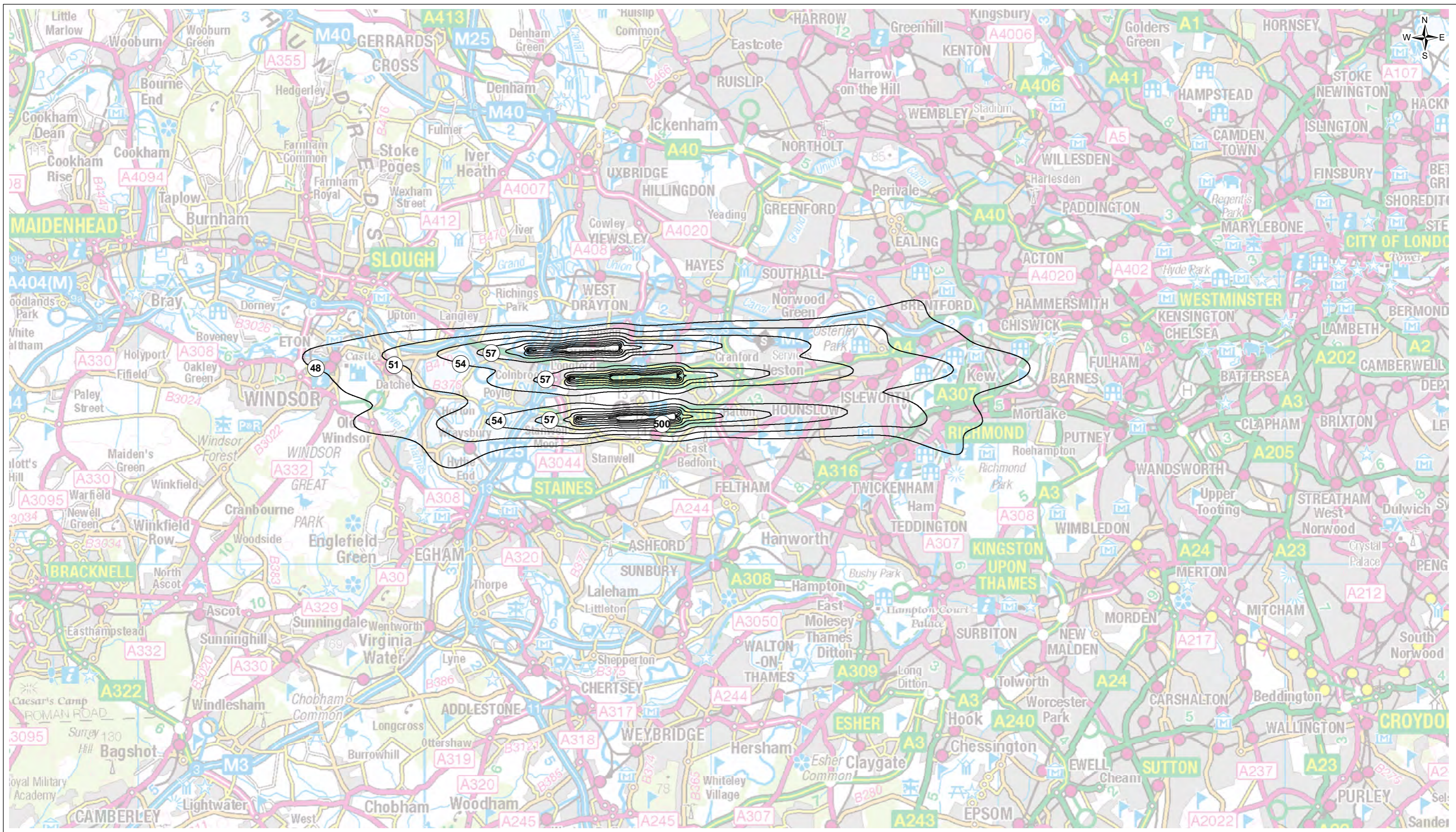
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Client No.

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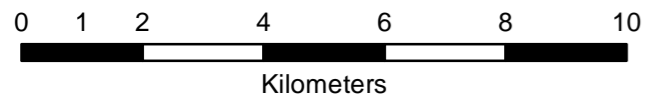
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— $L_{Aeq,8h}$ dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2077

Drawing Title
**Heathrow Airport
2050 Northwest Runway 'Respite' Option
 $L_{Aeq,8h}$ Contours**



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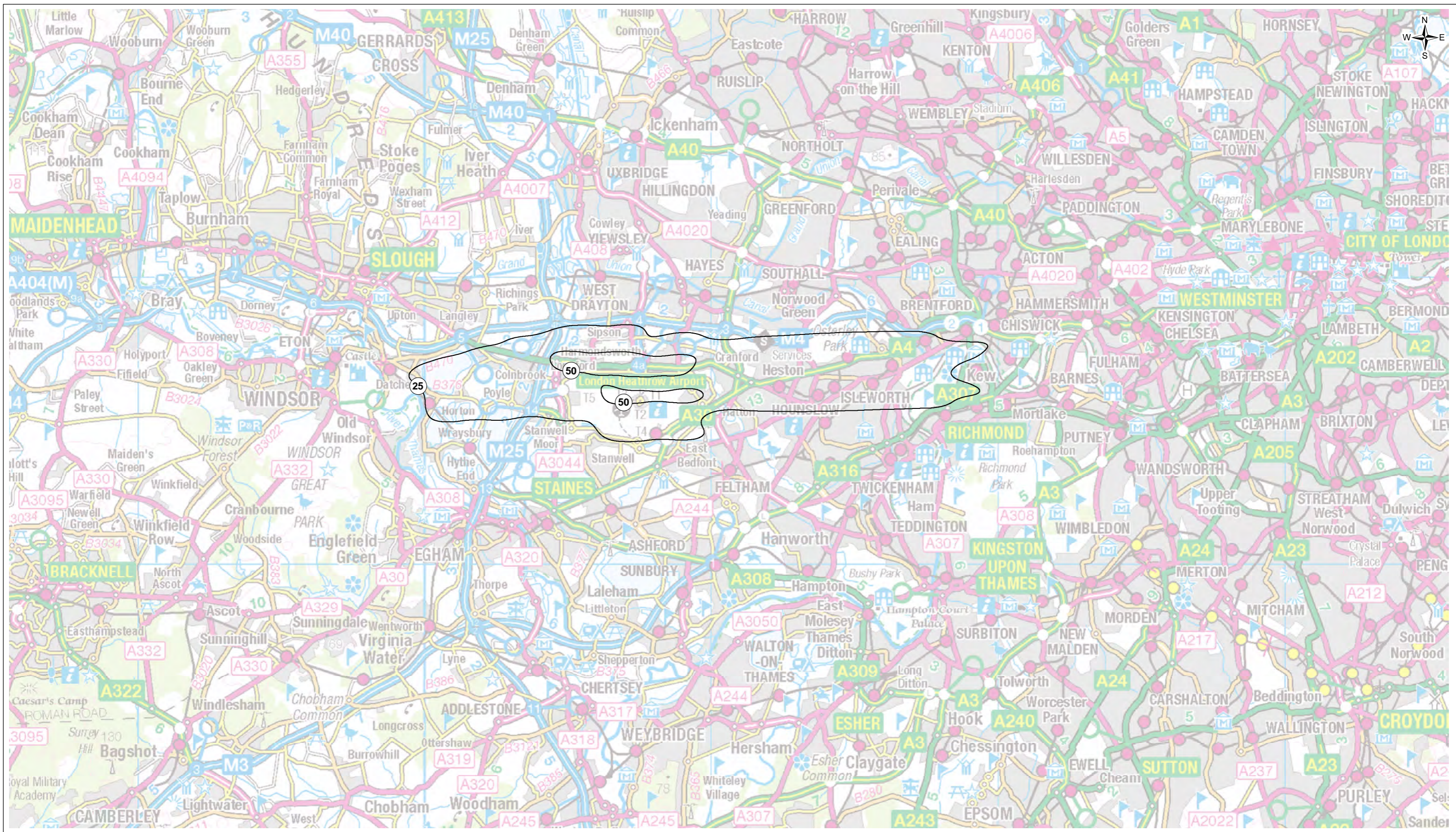
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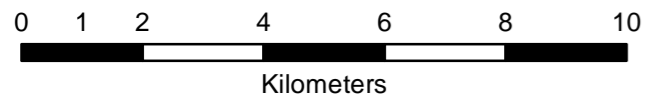
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— N60



Project
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FIGURE LNA2078

Drawing Title
**Heathrow Airport
2050 Northwest Runway 'Respite' Option
N60 Contours**

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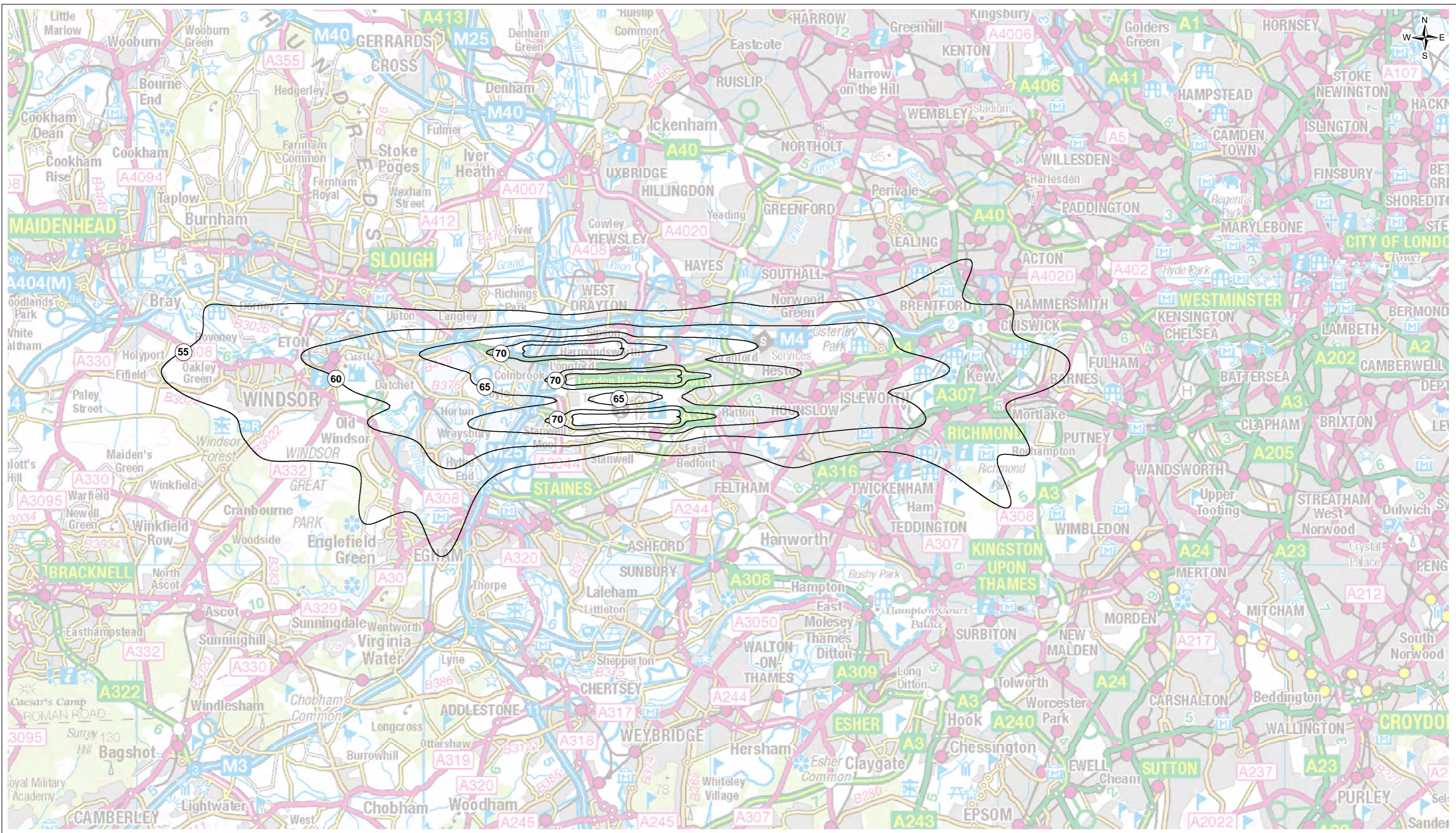
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Client No.

Drawing No. B4160007_LNA2078





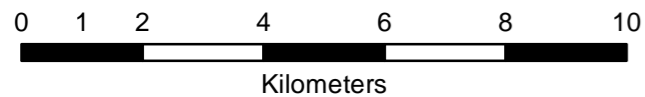
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Legend

— L_{den} dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA2079

Drawing Title
**Heathrow Airport
2050 Northwest Runway 'Respite' Option
Lden Contours**



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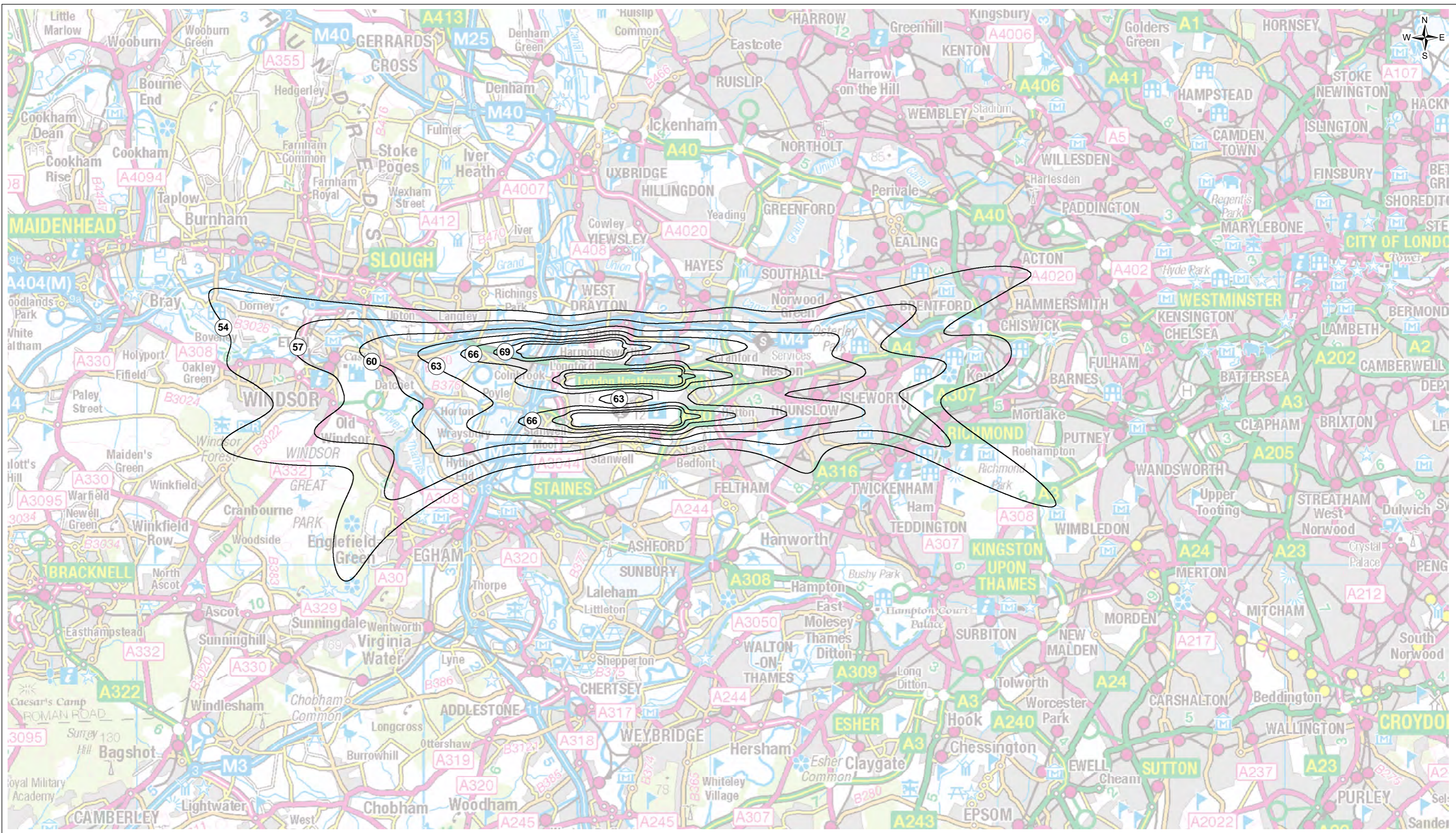
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Jacobs No. B4160007

Client No.

Drawing No. B4160007_LNA2079





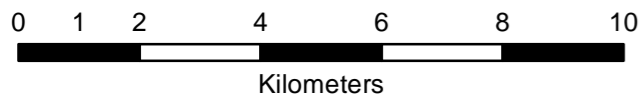
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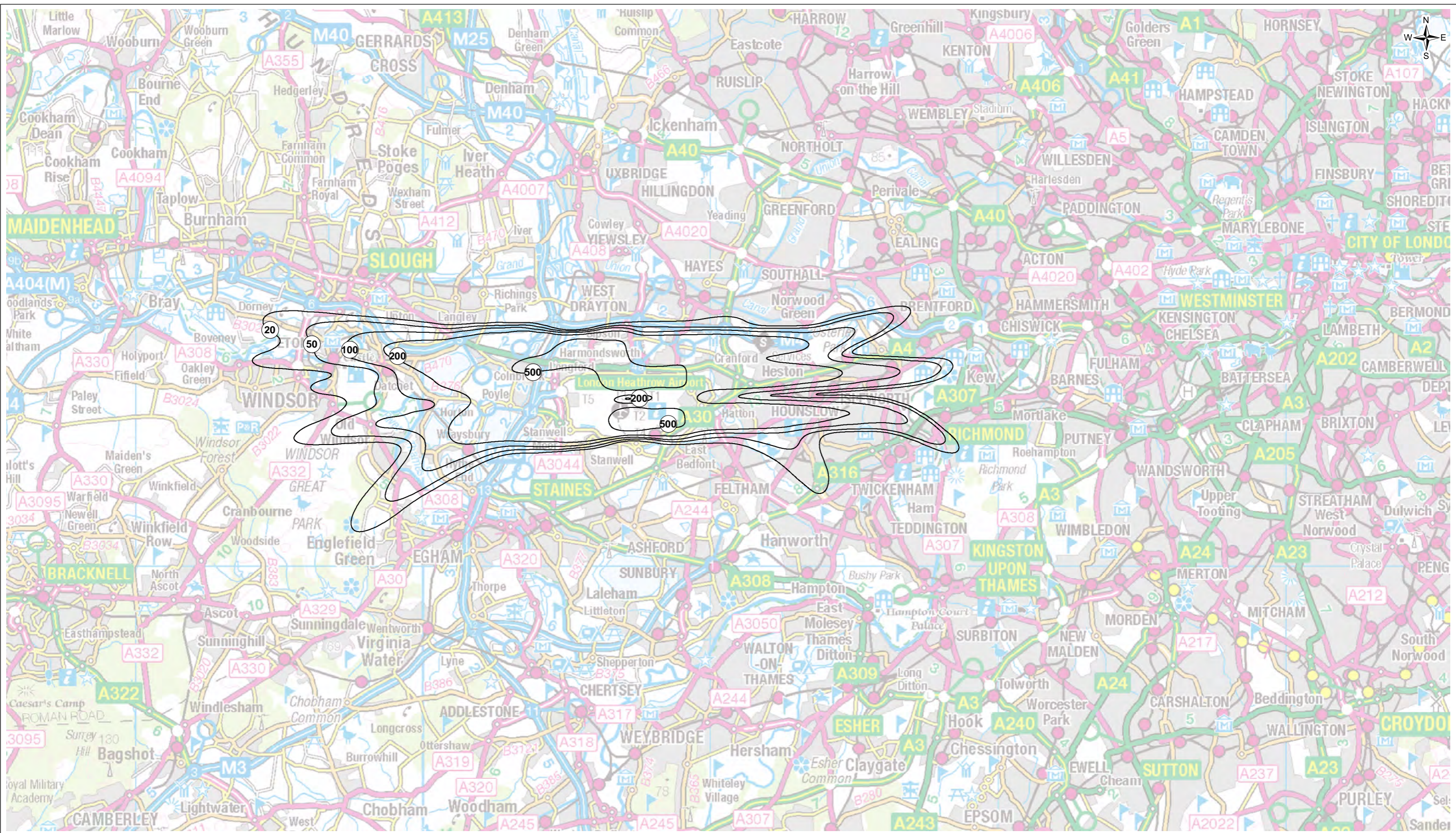
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2090	
Drawing Title		Heathrow Airport 2050 Northwest Runway '3.5° Approach' Option L _{Aeq,16h} Contours				JACOBS	
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Jacobs No. B4160007							
Drawing No. B4160007_LNA2090							



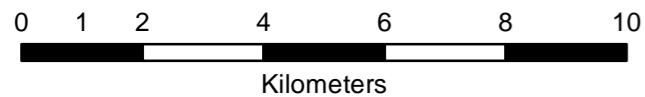
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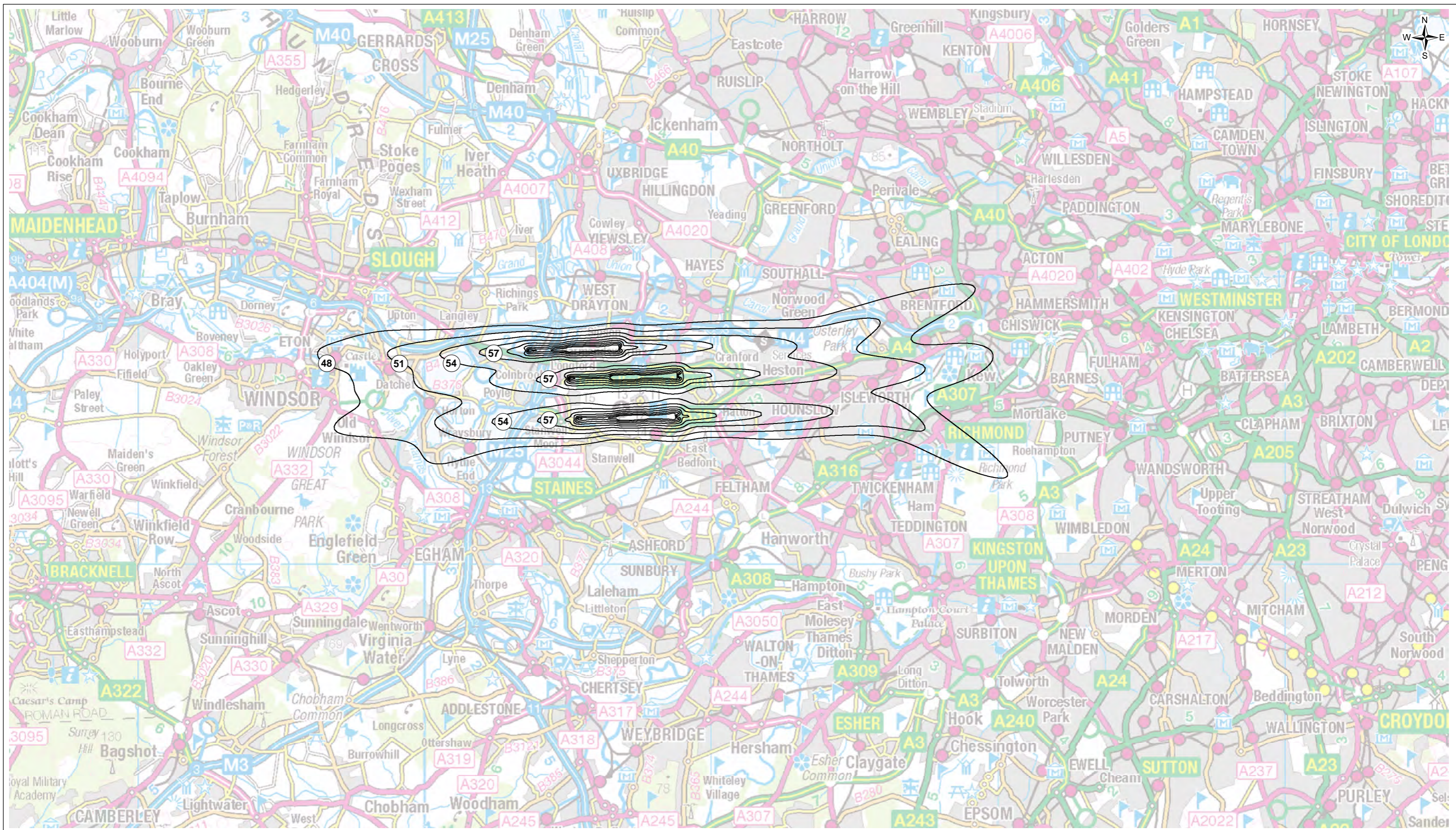
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2091	
Drawing Title		Heathrow Airport 2050 Northwest Runway '3.5° Approach' Option N70 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA2091							



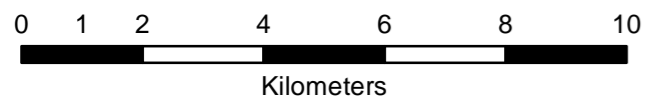
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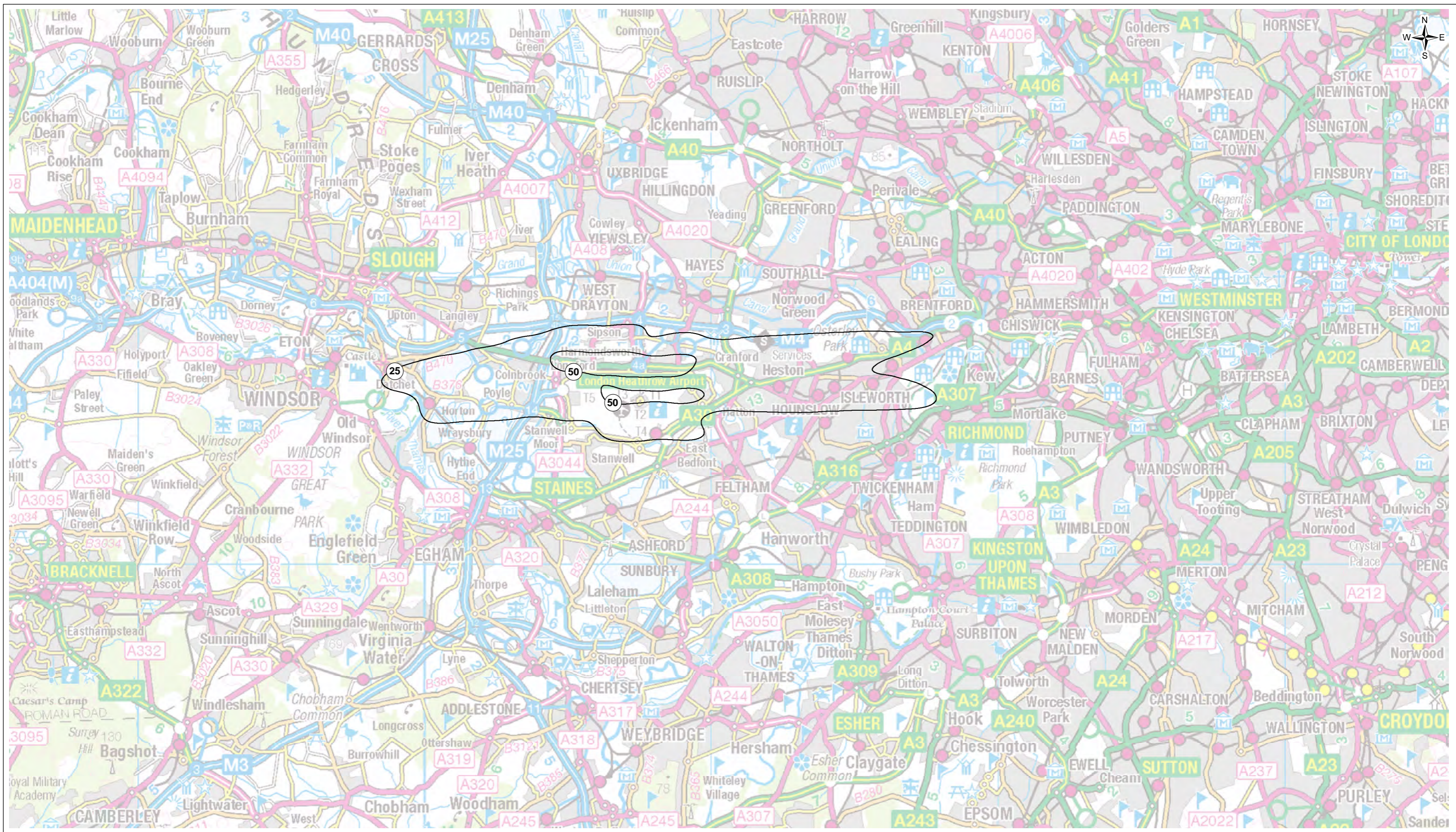
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Legend

— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2092	
Drawing Title		Heathrow Airport 2050 Northwest Runway '3.5° Approach' Option L _{Aeq,8h} Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No.		B4160007_LNA2092					



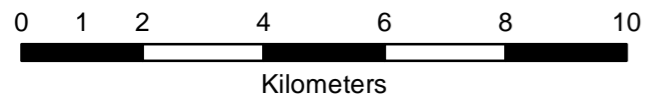
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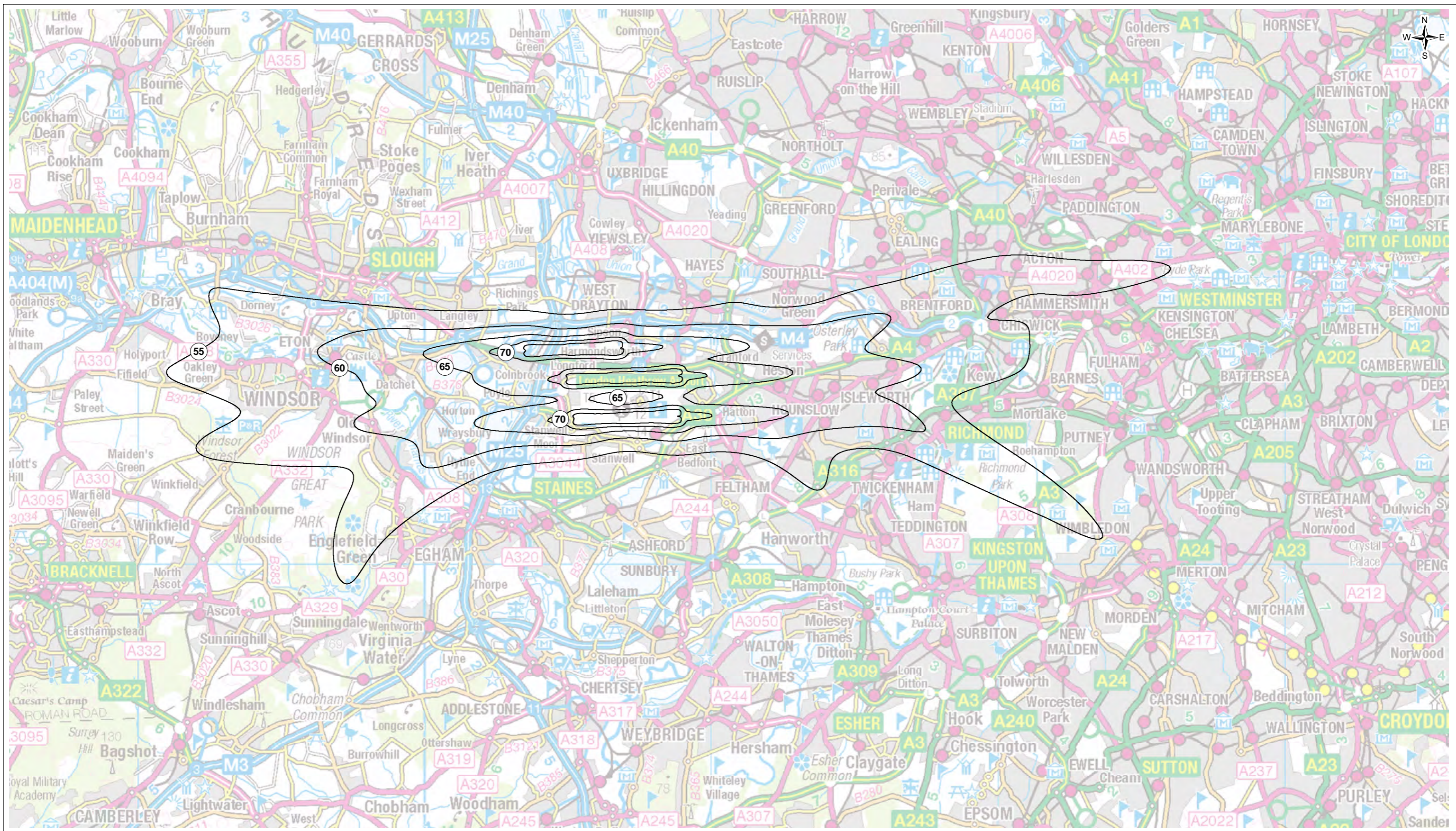
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2093	
Drawing Title		Heathrow Airport 2050 Northwest Runway '3.5° Approach' Option N60 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA2093							



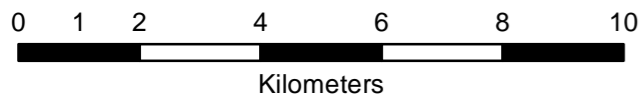
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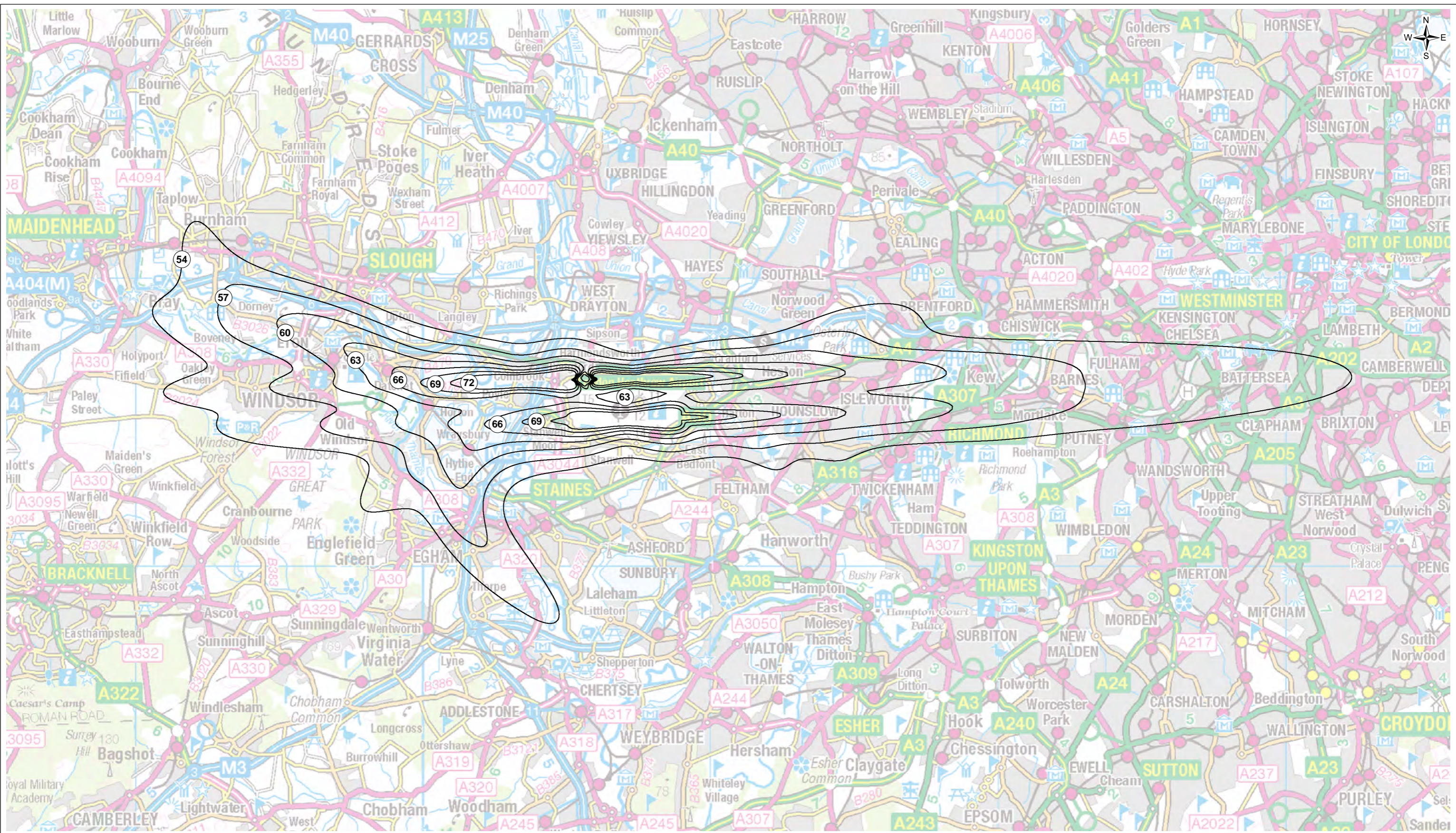
— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA2094
Drawing Title		Heathrow Airport 2050 Northwest Runway '3.5° Approach' Option Lden Contours				
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Scale @ A3 1:125,000		DO NOT SCALE				Client
Jacobs No. B4160007						
Drawing No.		B4160007_LNA2094				

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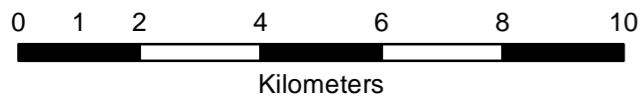
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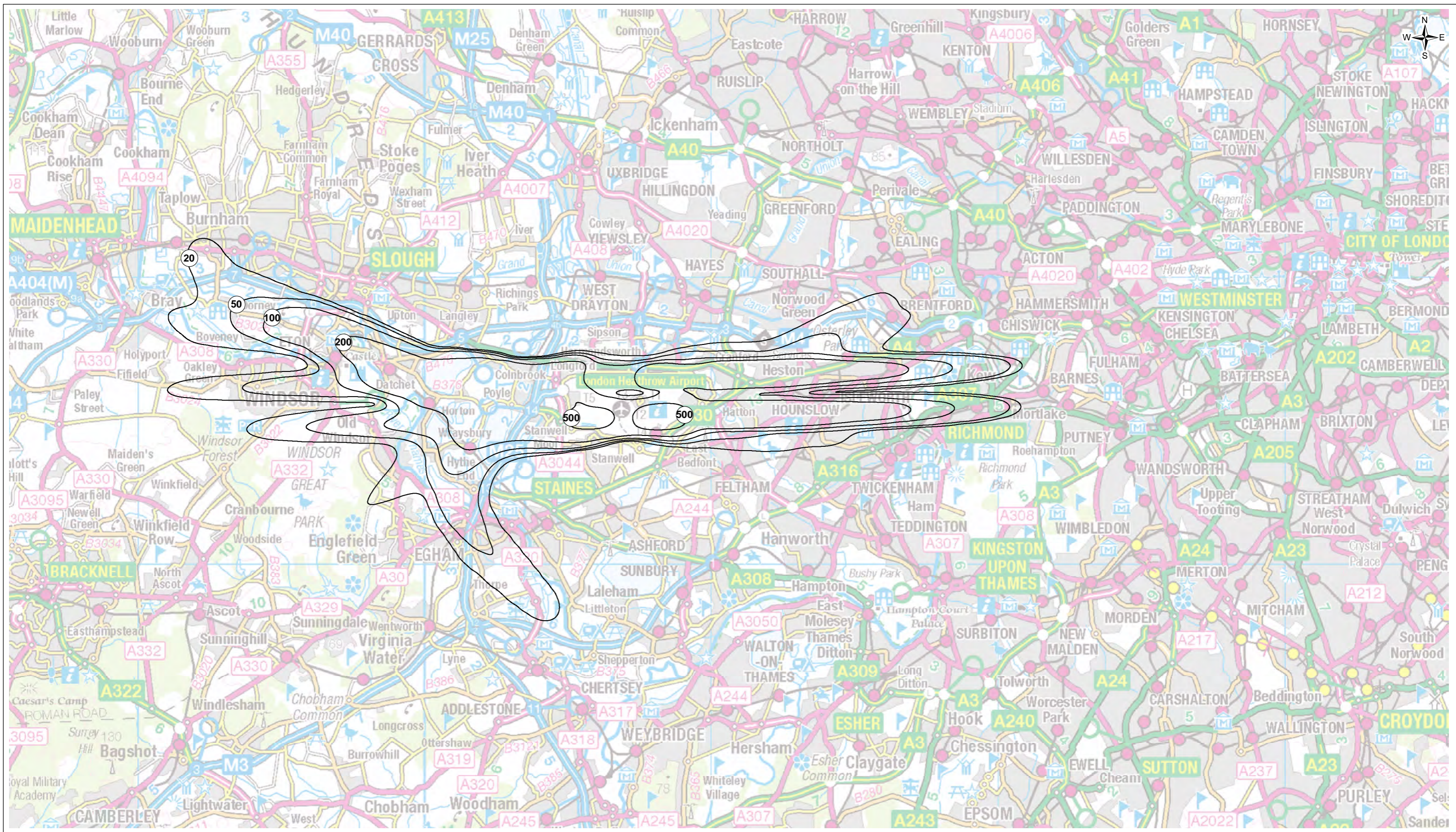
— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3000
Drawing Title		Heathrow Airport 2030 Extended Northern Runway Option L _{Aeq,16h} Contours				
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Scale @ A3 1:125,000		DO NOT SCALE				Client
Jacobs No. B4160007						
Drawing No.						
Drawing No.		B4160007_LNA3000				

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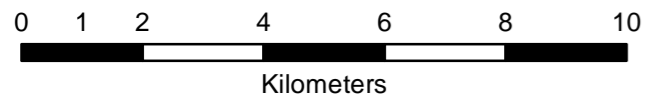
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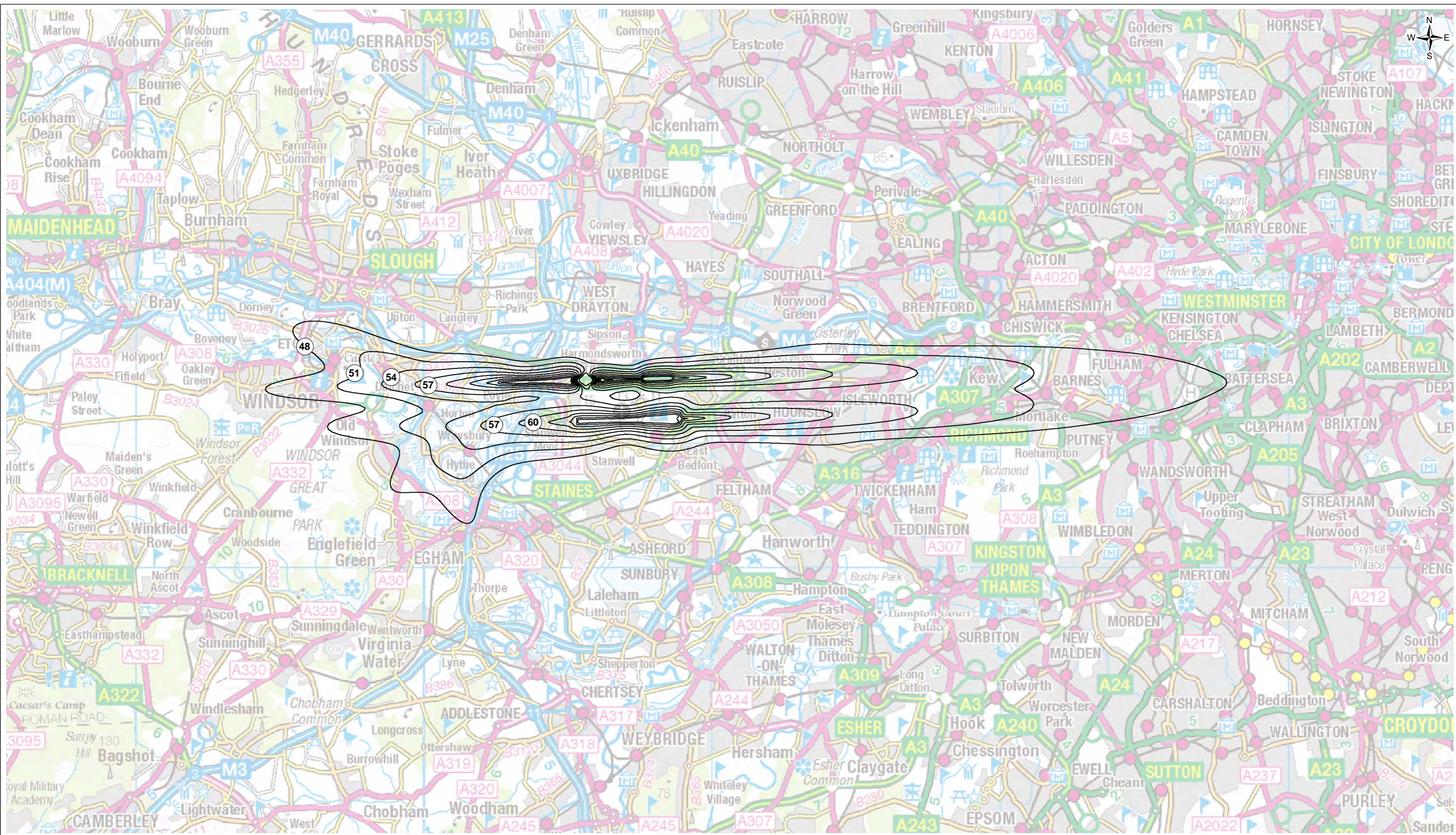
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3001	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway Option N70 Contours				JACOBS	
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA3001							



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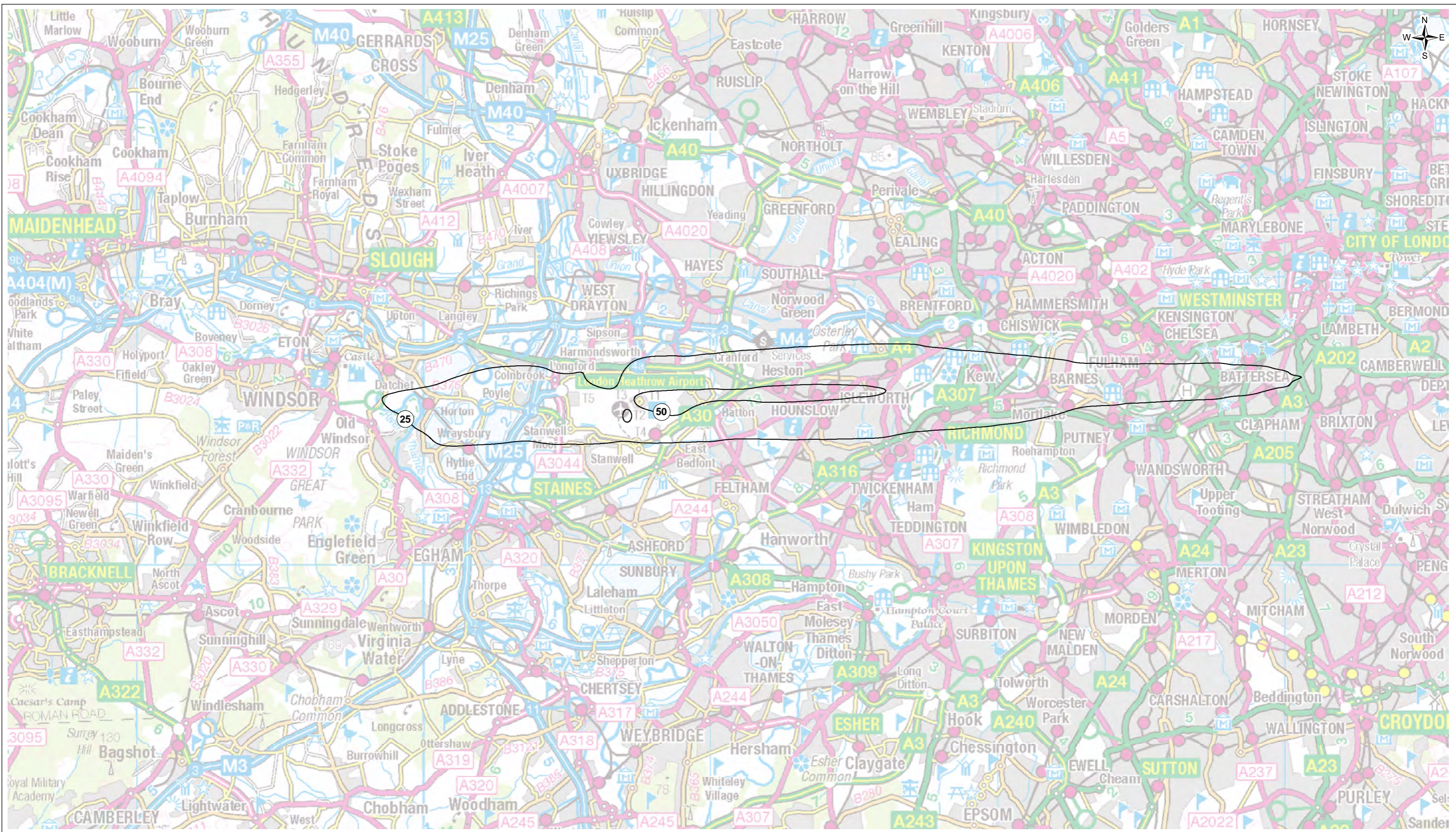
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3002	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Rev.		Date		Purpose of revision		DO NOT SCALE	
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1				Drawn		Check'd Rev'd App'd	
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Client		Airports Commission					
Drawing No.		B4160007_LNA3002					



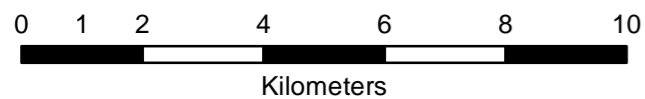
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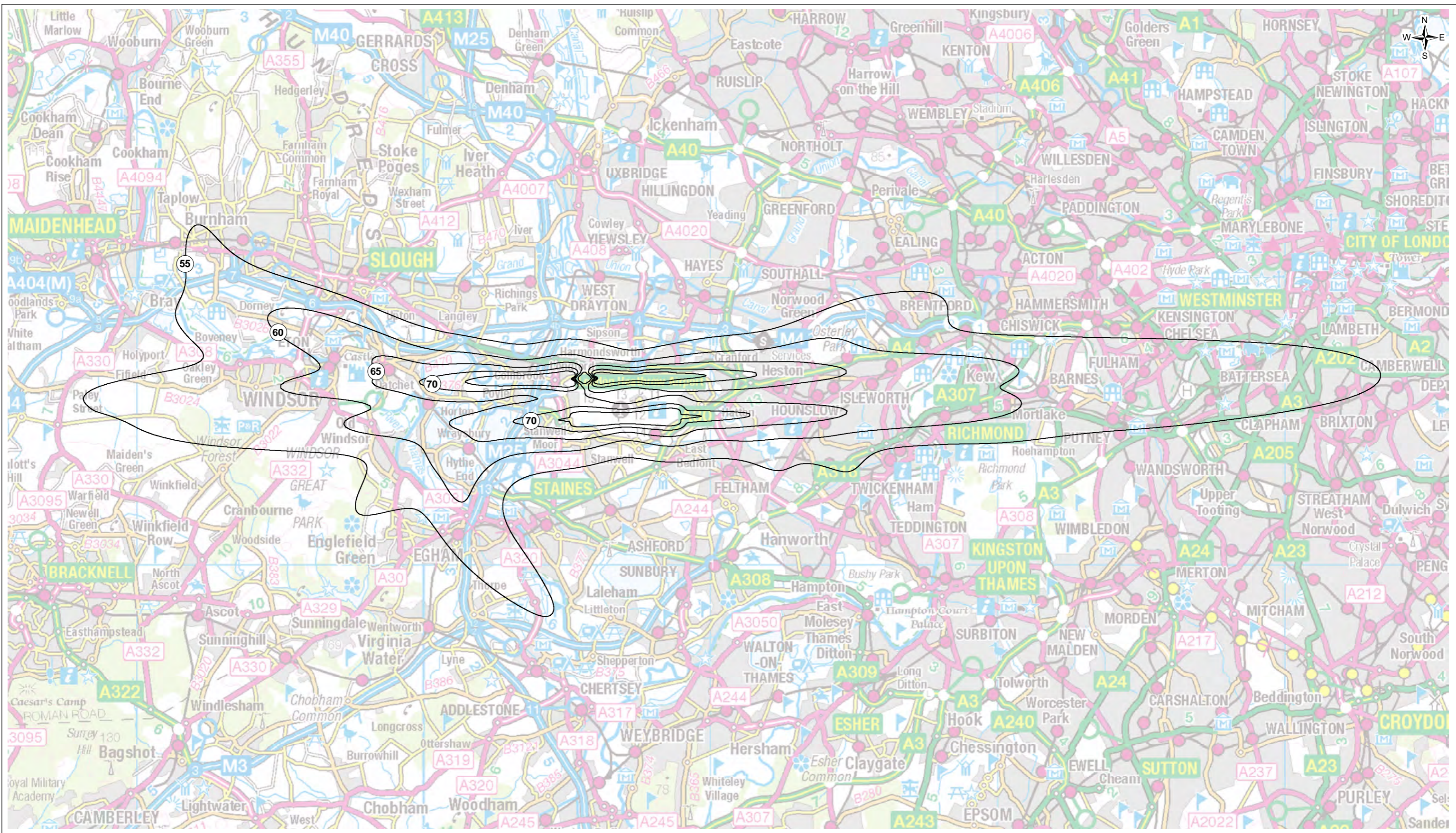
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3003	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway Option N60 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Rev.		Date		Purpose of revision		Client	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
DO NOT SCALE							
Drawing No.		B4160007				Client	
Drawing No.		B4160007_LNA3003					



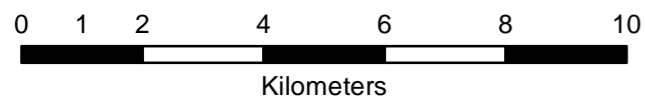
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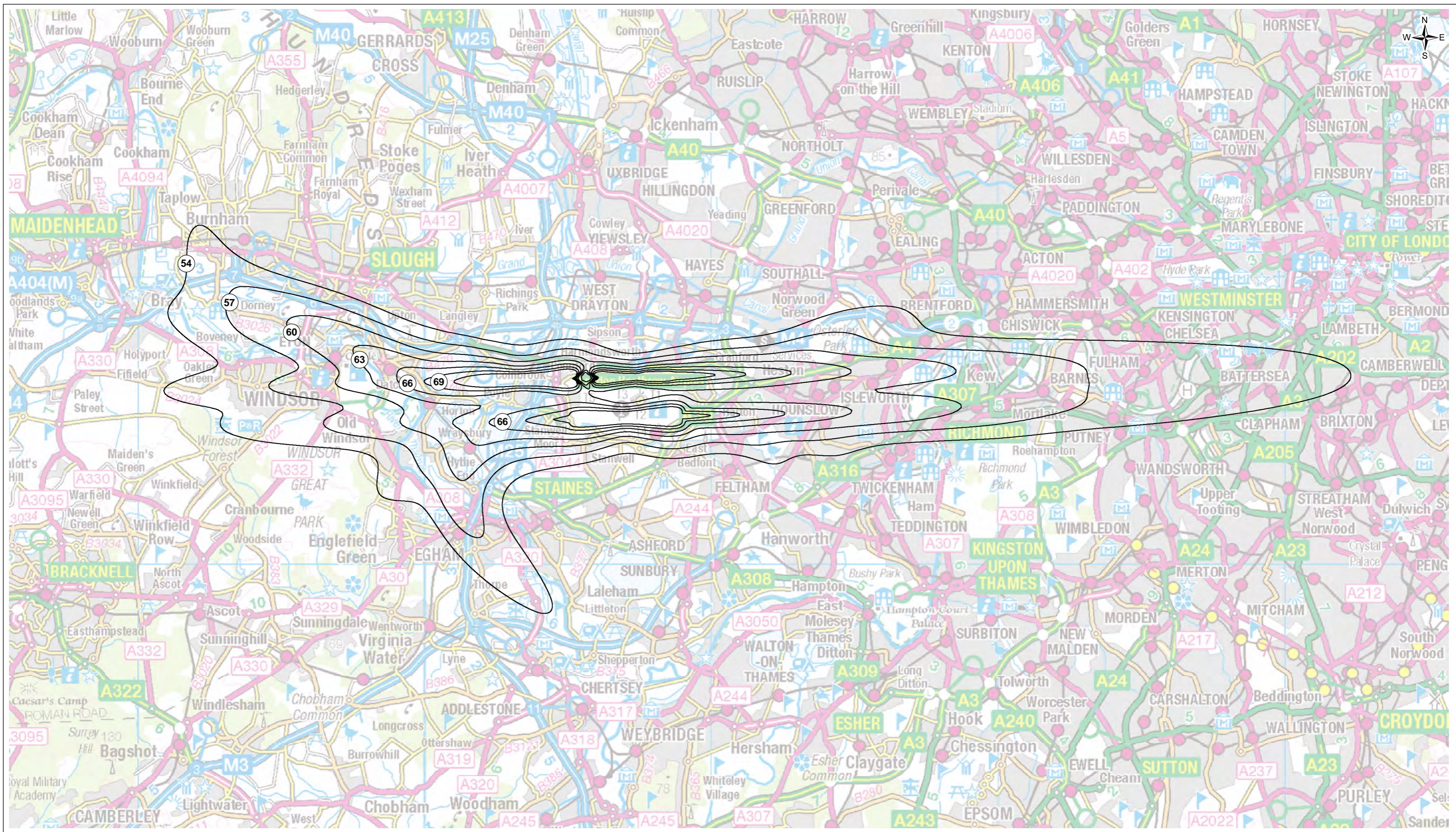
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3004
Drawing Title		Heathrow Airport 2030 Extended Northern Runway Option Lden Contours				
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Scale @ A3 1:125,000		DO NOT SCALE				Client
Jacobs No. B4160007						
Drawing No.						
Drawing No.		B4160007_LNA3004				

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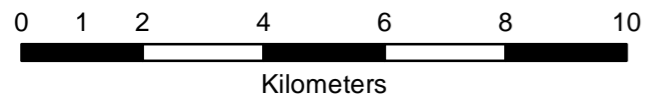
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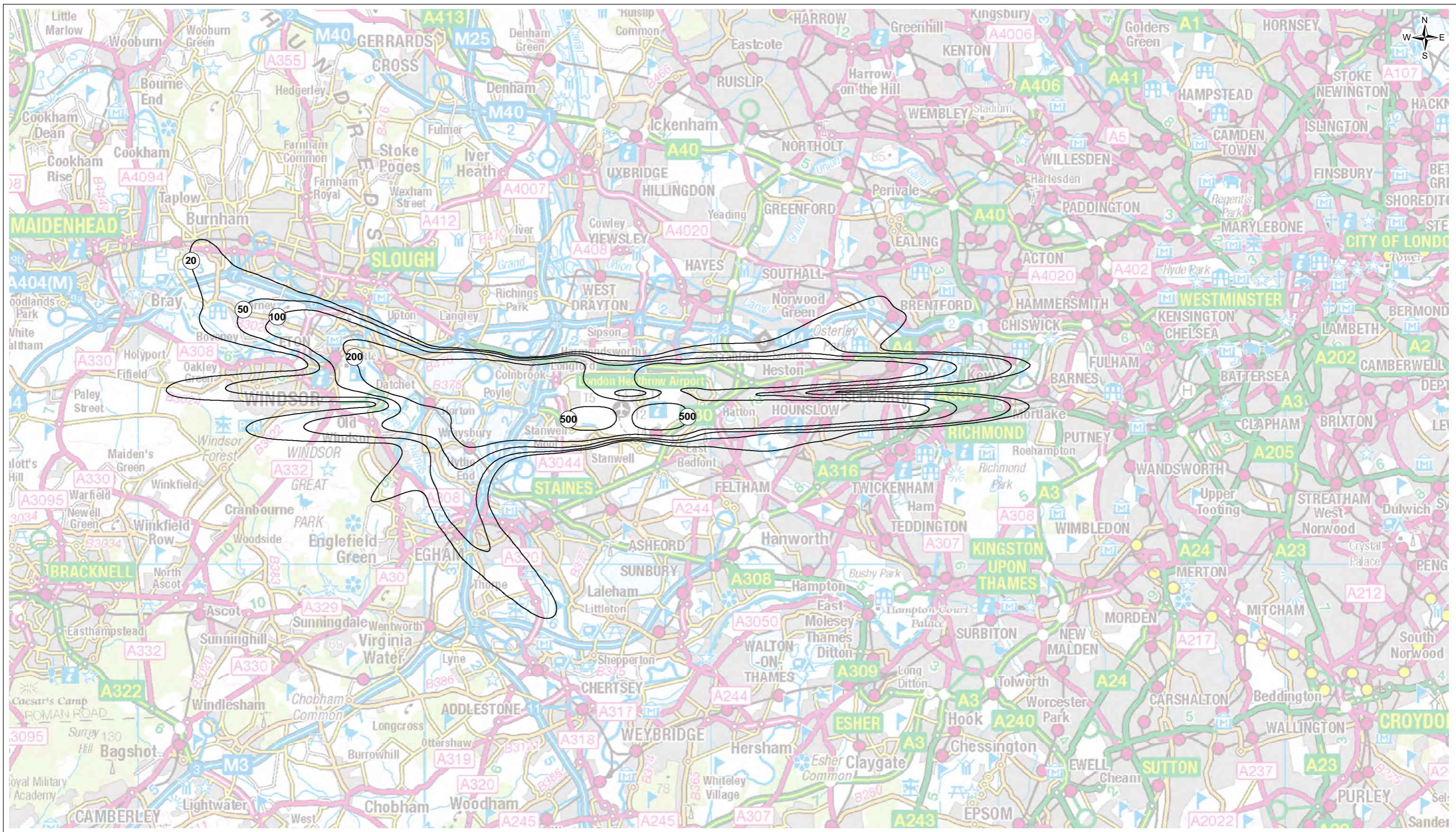
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3005	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway Option L _{Aeq,16h} Contours				JACOBS	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA3005							



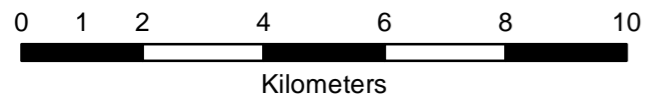
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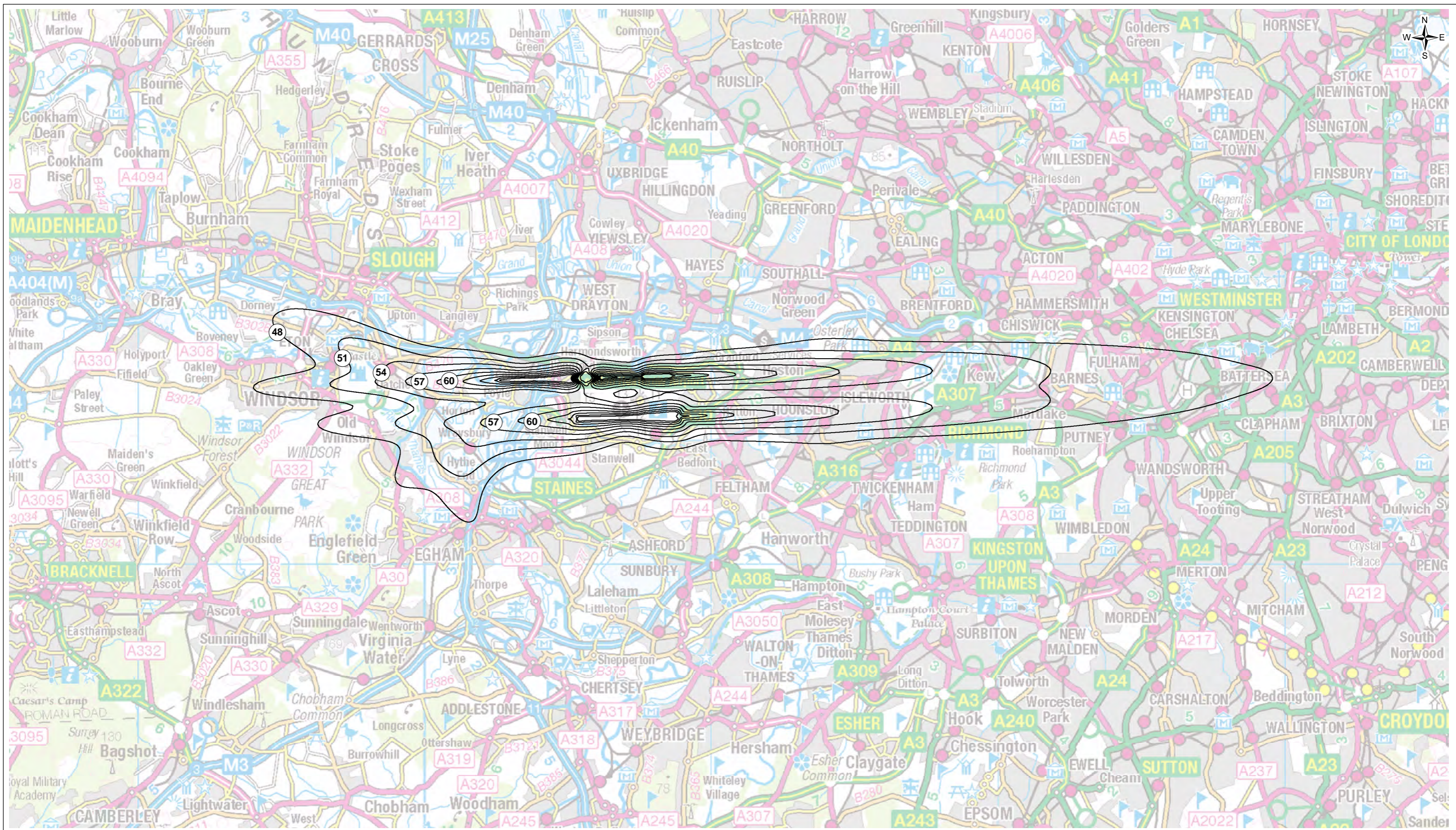
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3006	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway Option N70 Contours				JACOBS	
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Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA3006							



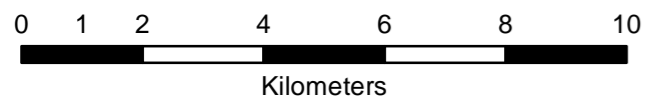
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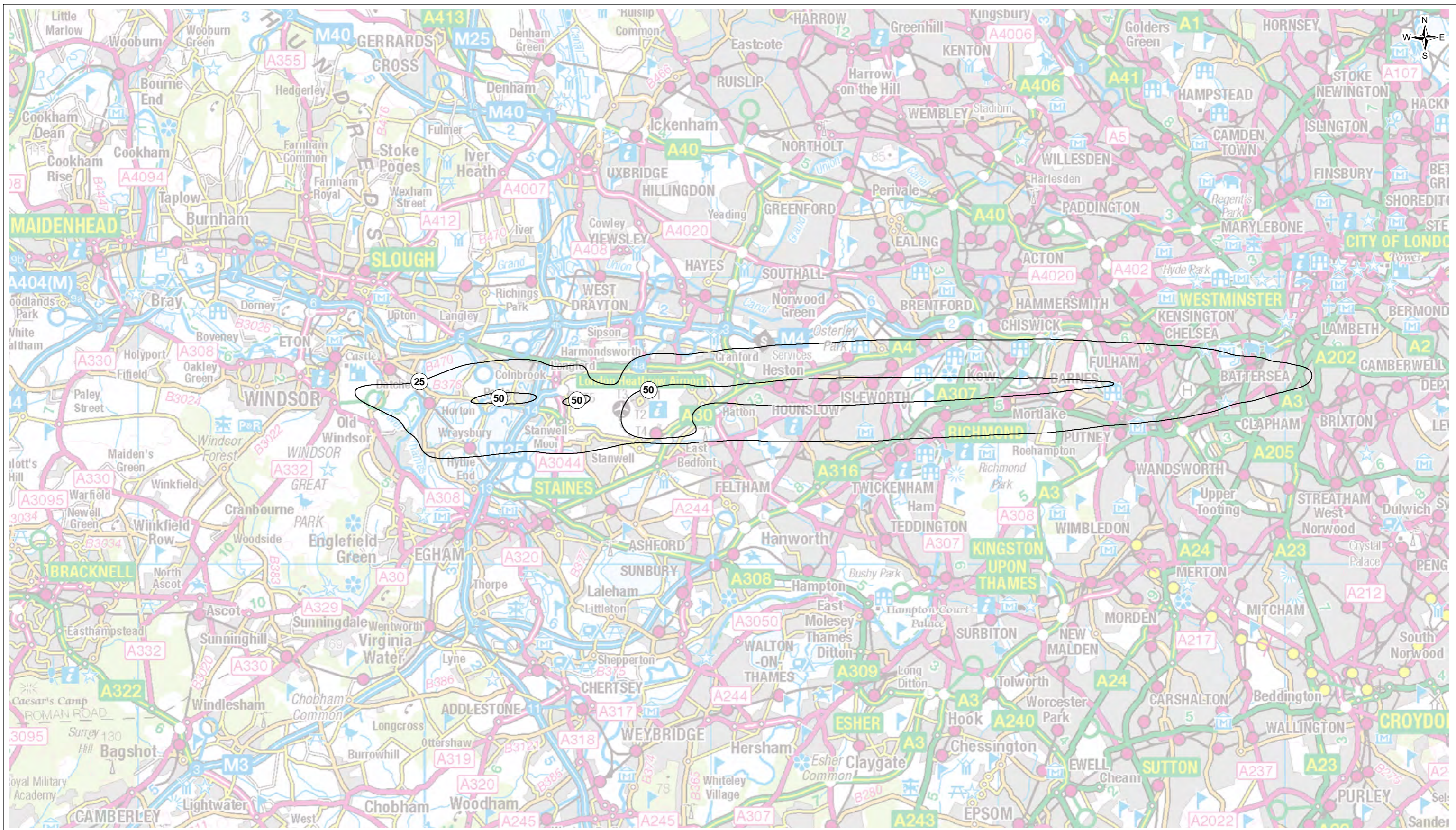
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3007	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Drawing No.		B4160007_LNA3007				Client Airports Commission	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Jacobs No. B4160007							
Client No.							



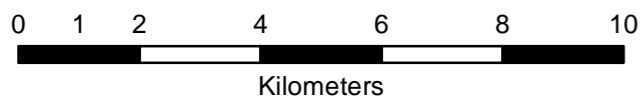
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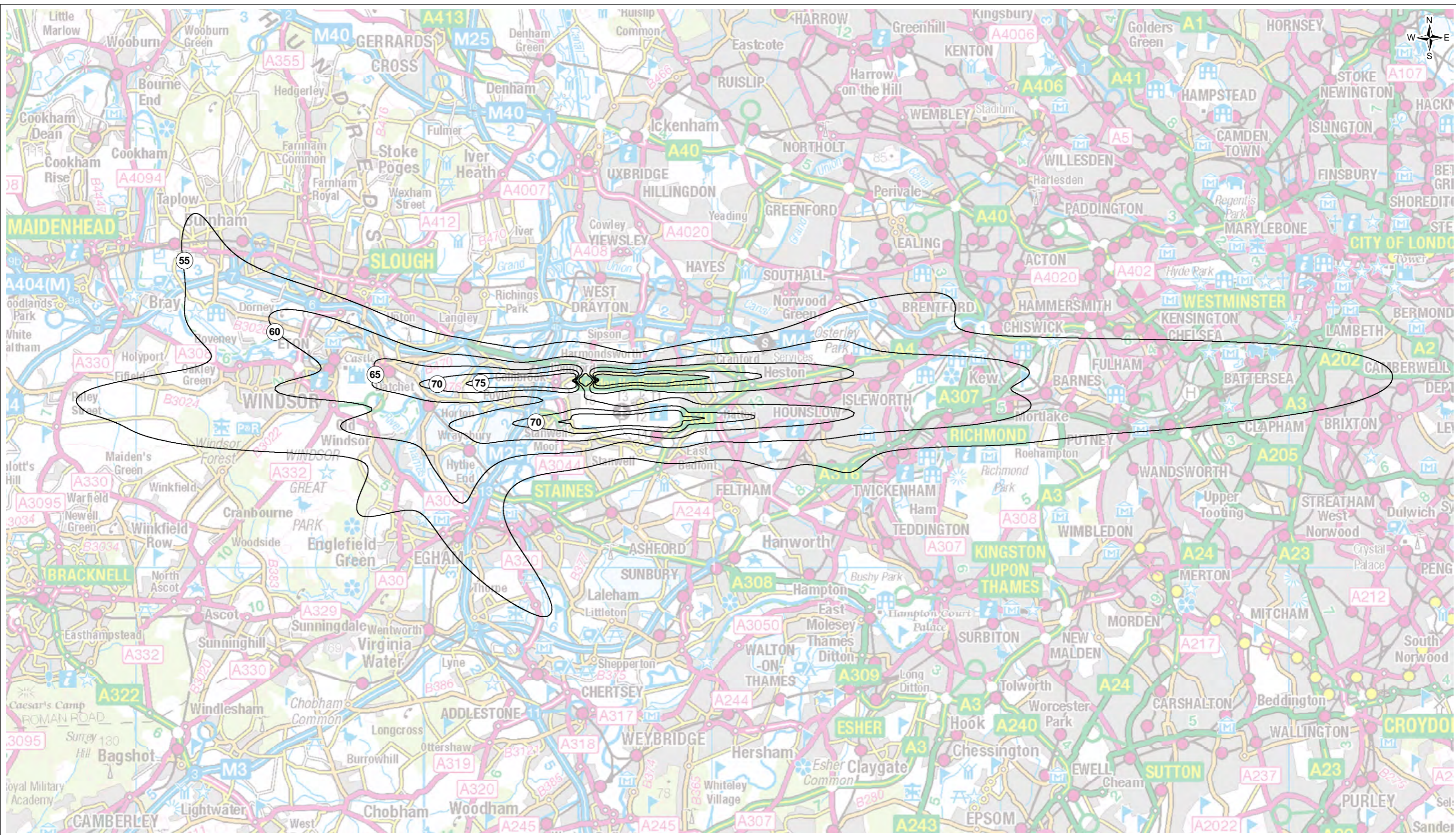
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3008	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway Option N60 Contours				JACOBS	
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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No.		B4160007_LNA3008					



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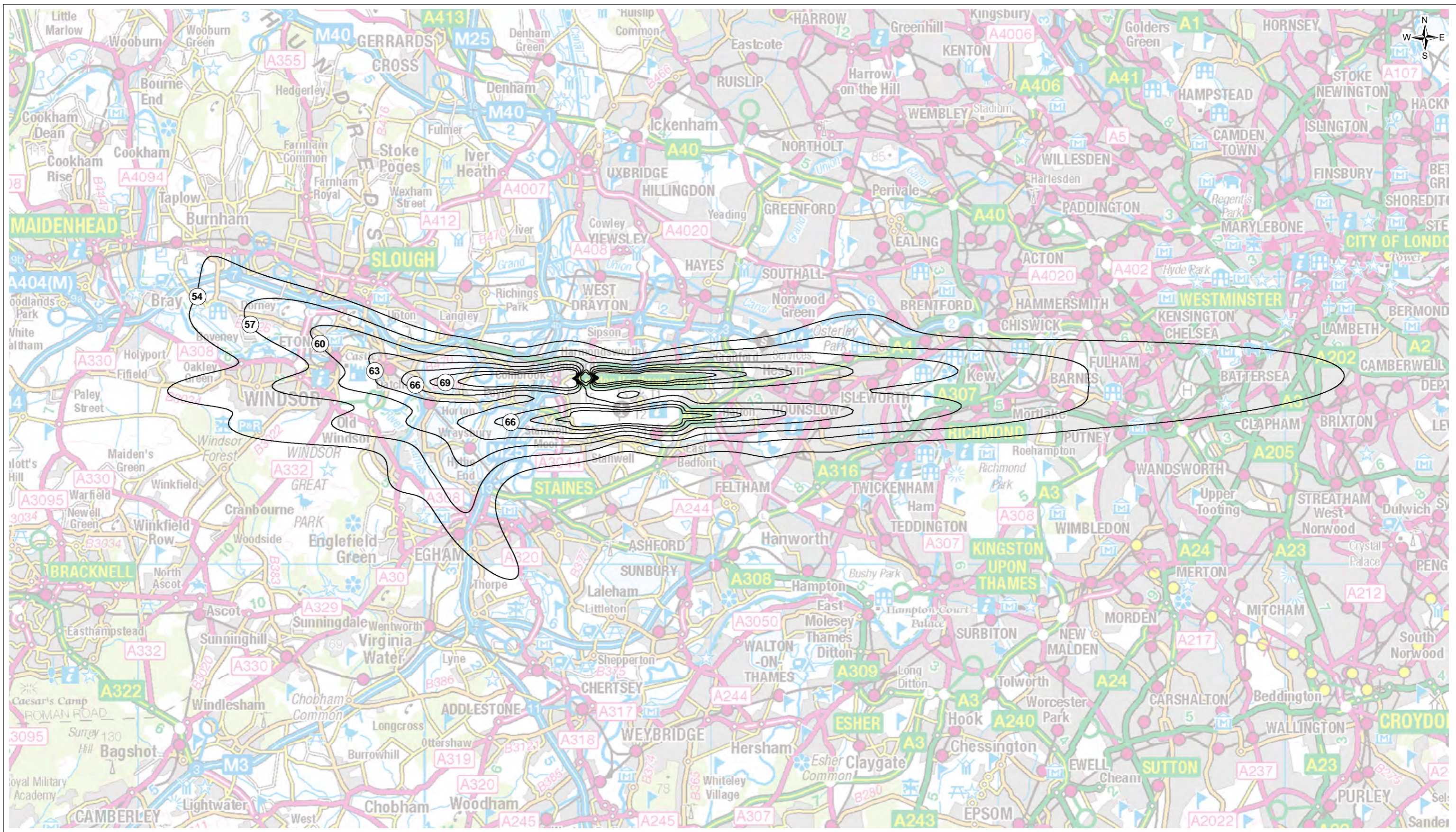
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— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3009	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway Option Lden Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
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Client No.							
Drawing No.		B4160007_LNA3009					



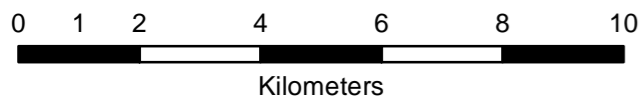
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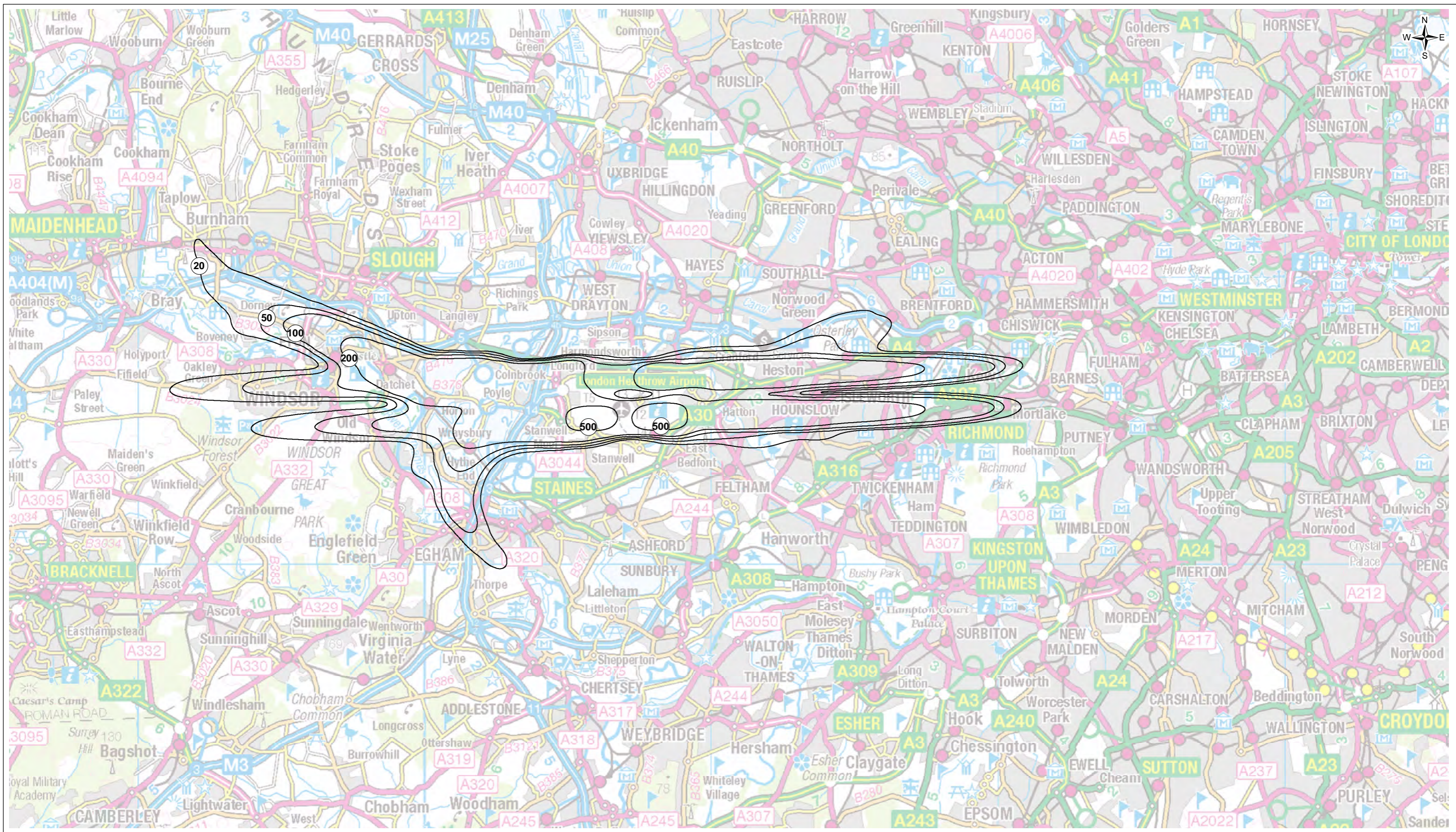
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3010	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway Option L _{Aeq,16h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Jacobs No.		B4160007				Client	
Client No.							
Drawing No.		B4160007_LNA3010					



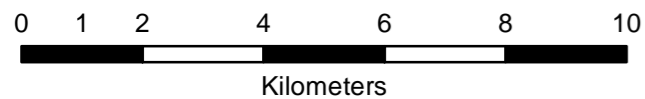
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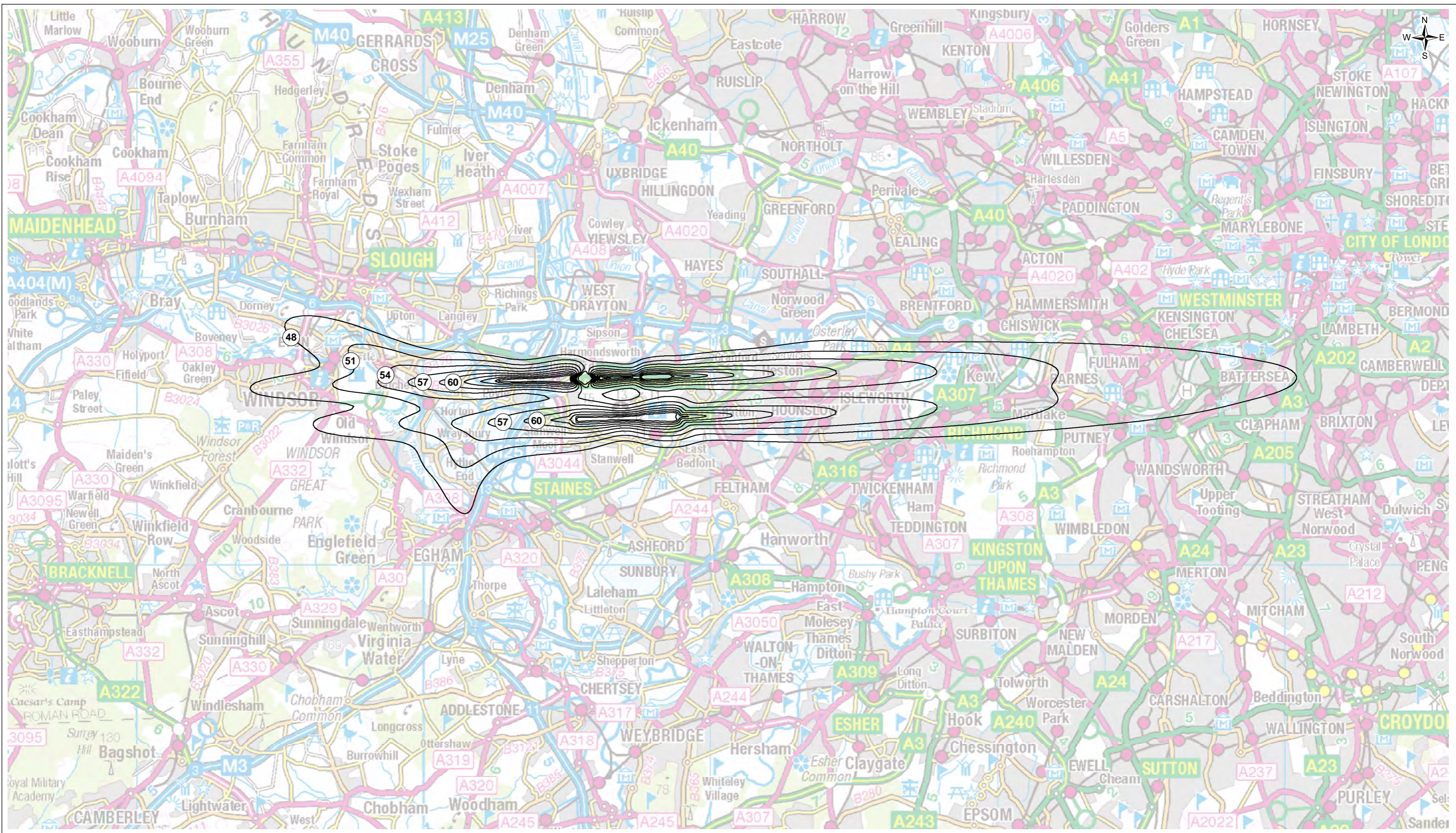
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— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3011	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway Option N70 Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Client		Airports Commission					
0	OCT 14	Initial Issue	JA	SW	SW	CT	
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Jacobs No. B4160007							
Client No.							
Drawing No.		B4160007_LNA3011					



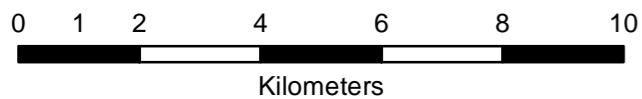
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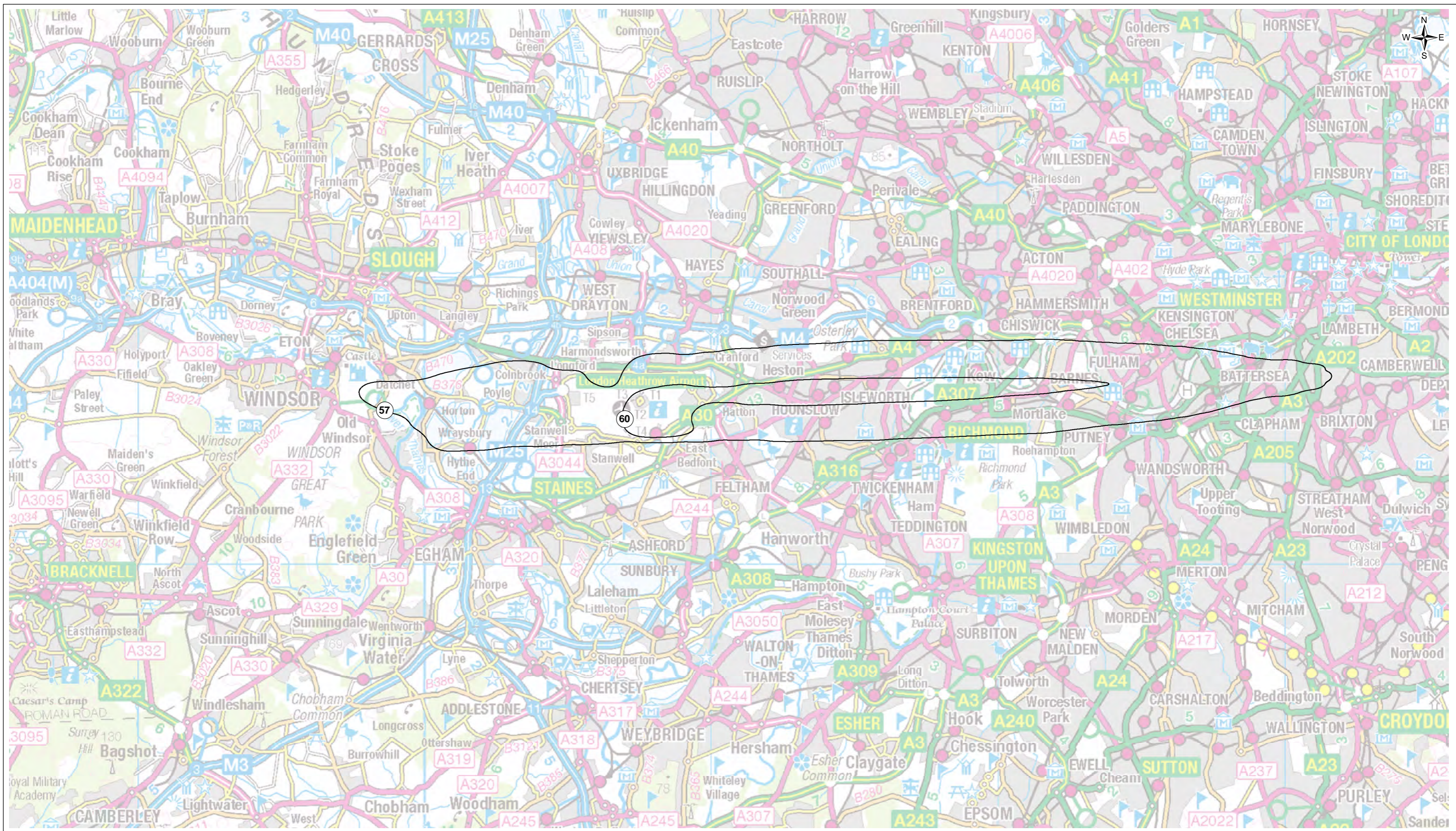
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Legend

— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3012	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Jacobs No.		B4160007				Client	
Client No.							
Drawing No.		B4160007_LNA3012					



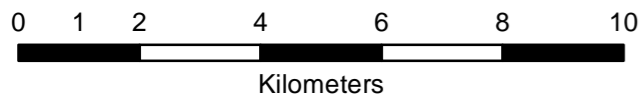
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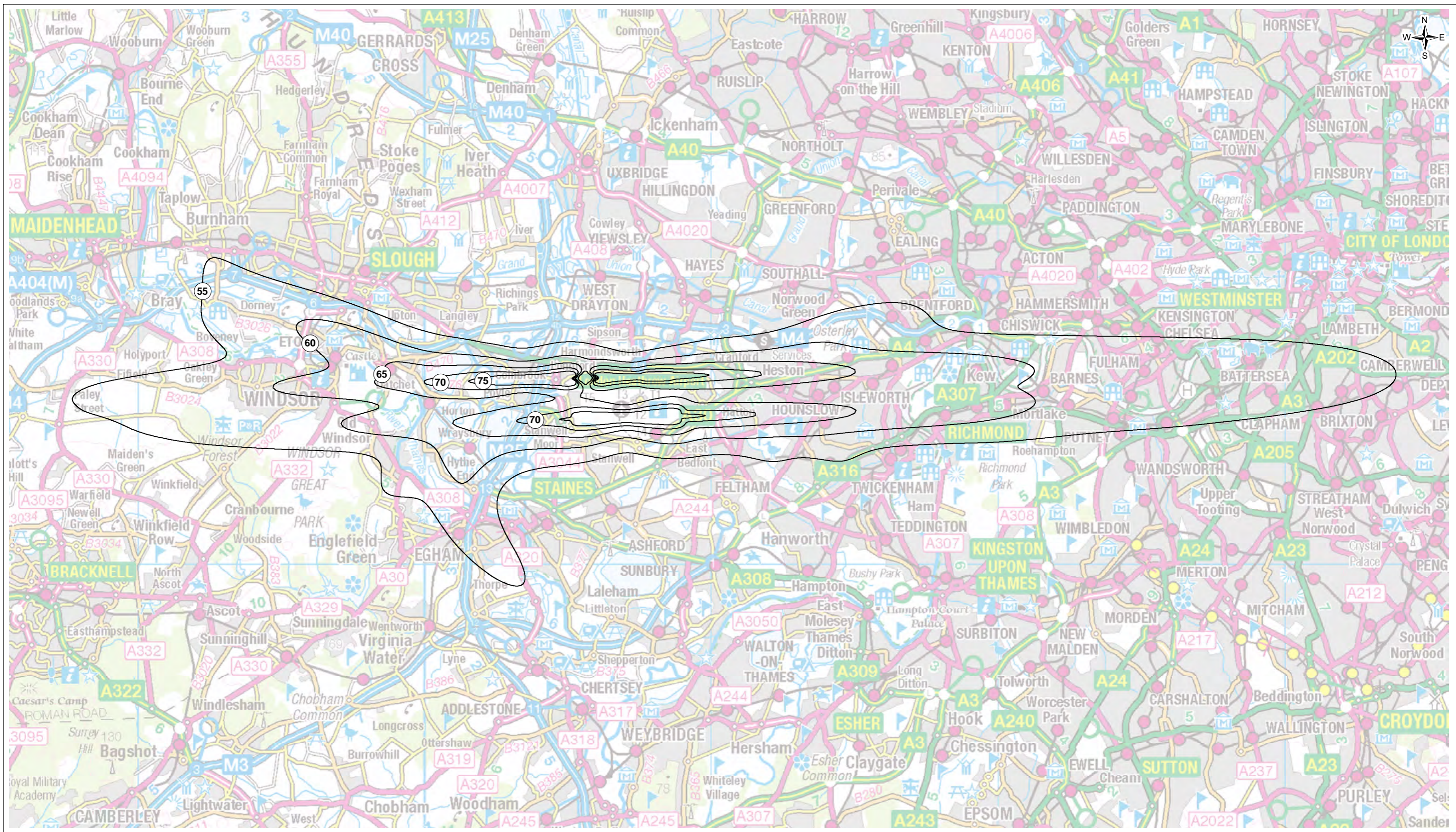
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— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3013	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway Option N60 Contours				JACOBS	
0 OCT 14		Initial Issue	JA	SW	SW	CT	Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000		DO NOT SCALE				Client	
Jacobs No. B4160007							
Drawing No. B4160007_LNA3013							



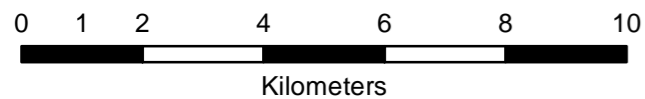
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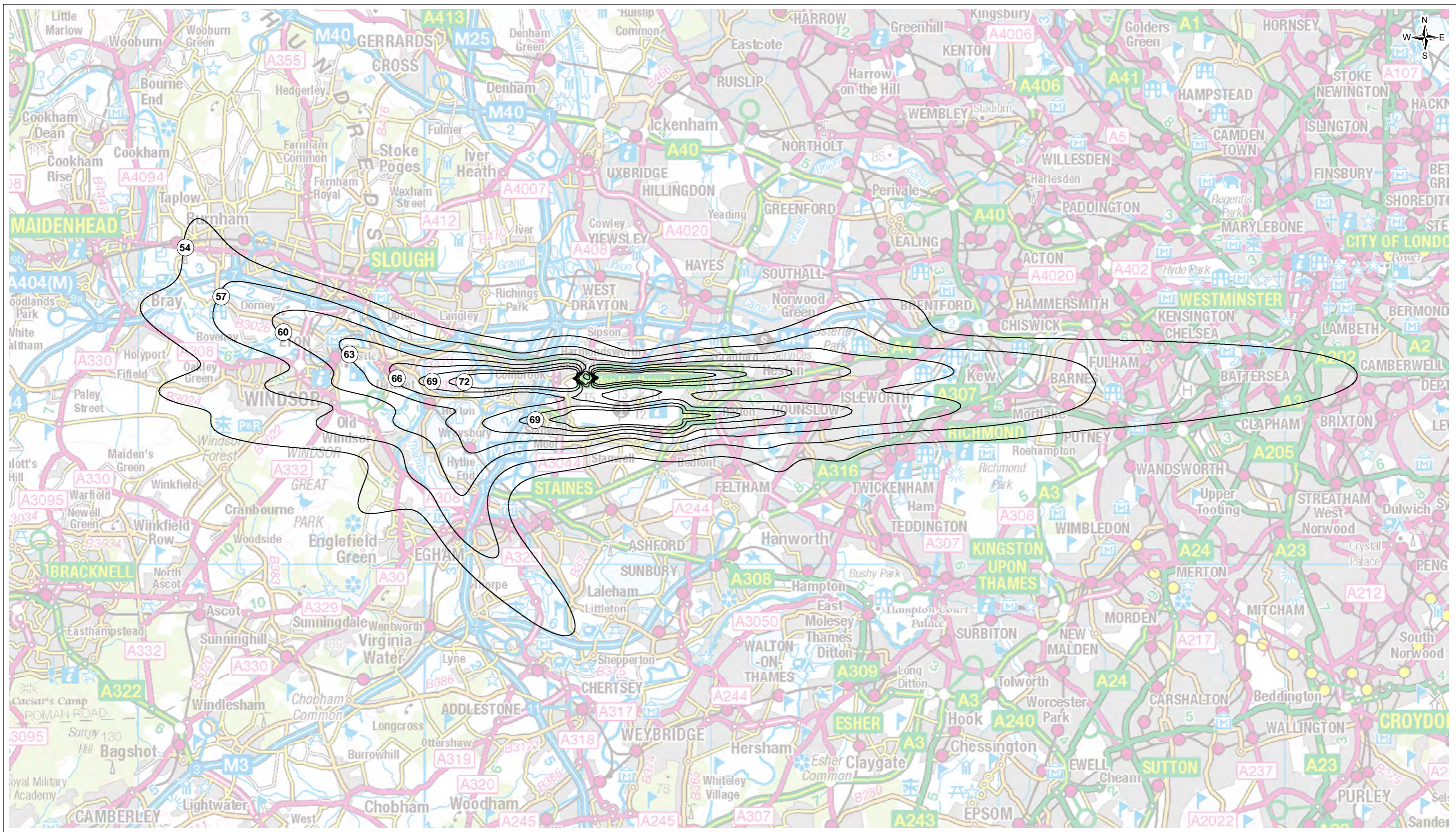
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Legend

— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3014	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway Option Lden Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Client		Airports Commission					
Drawing No.		B4160007_LNA3014					
Rev. Date		Purpose of revision		Drawn		Check'd	
0 OCT 14		Initial Issue		JA SW SW CT			
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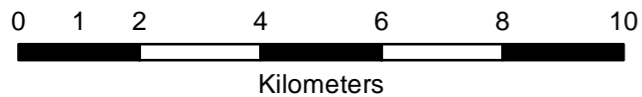
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3015	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway 'Carbon Traded' Option L _{Aeq,16h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3 1:125,000			DO NOT SCALE				
Jacobs No. B4160007		Drawing No. B4160007_LNA3015					



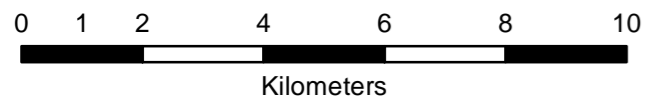
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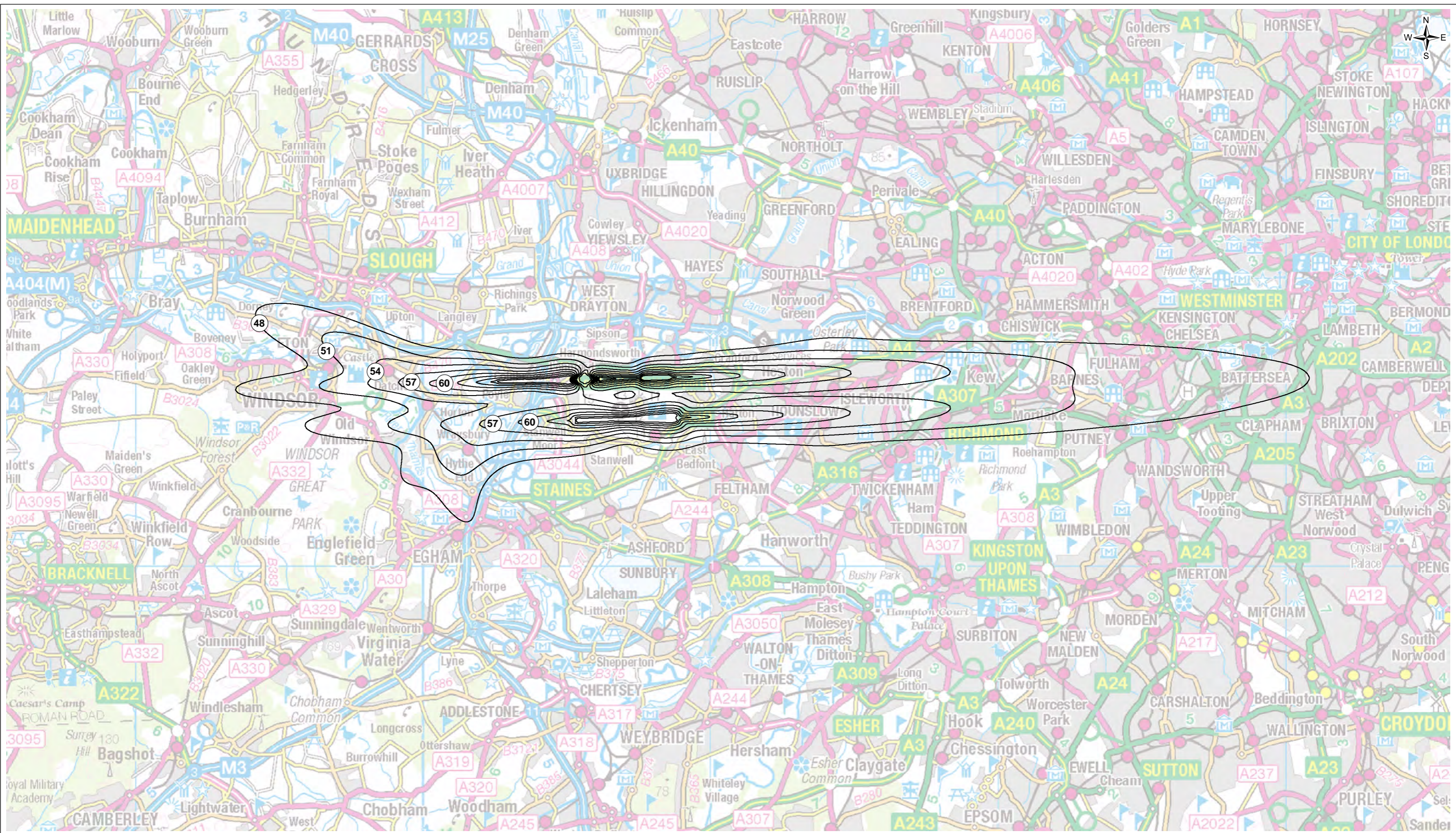
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Legend

— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3016	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway 'Carbon Traded' Option N70 Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
DO NOT SCALE							
Jacobs No. B4160007		Drawing No. B4160007_LNA3016					



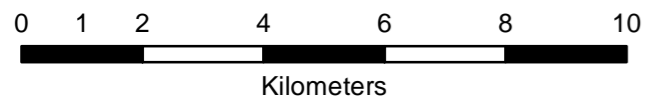
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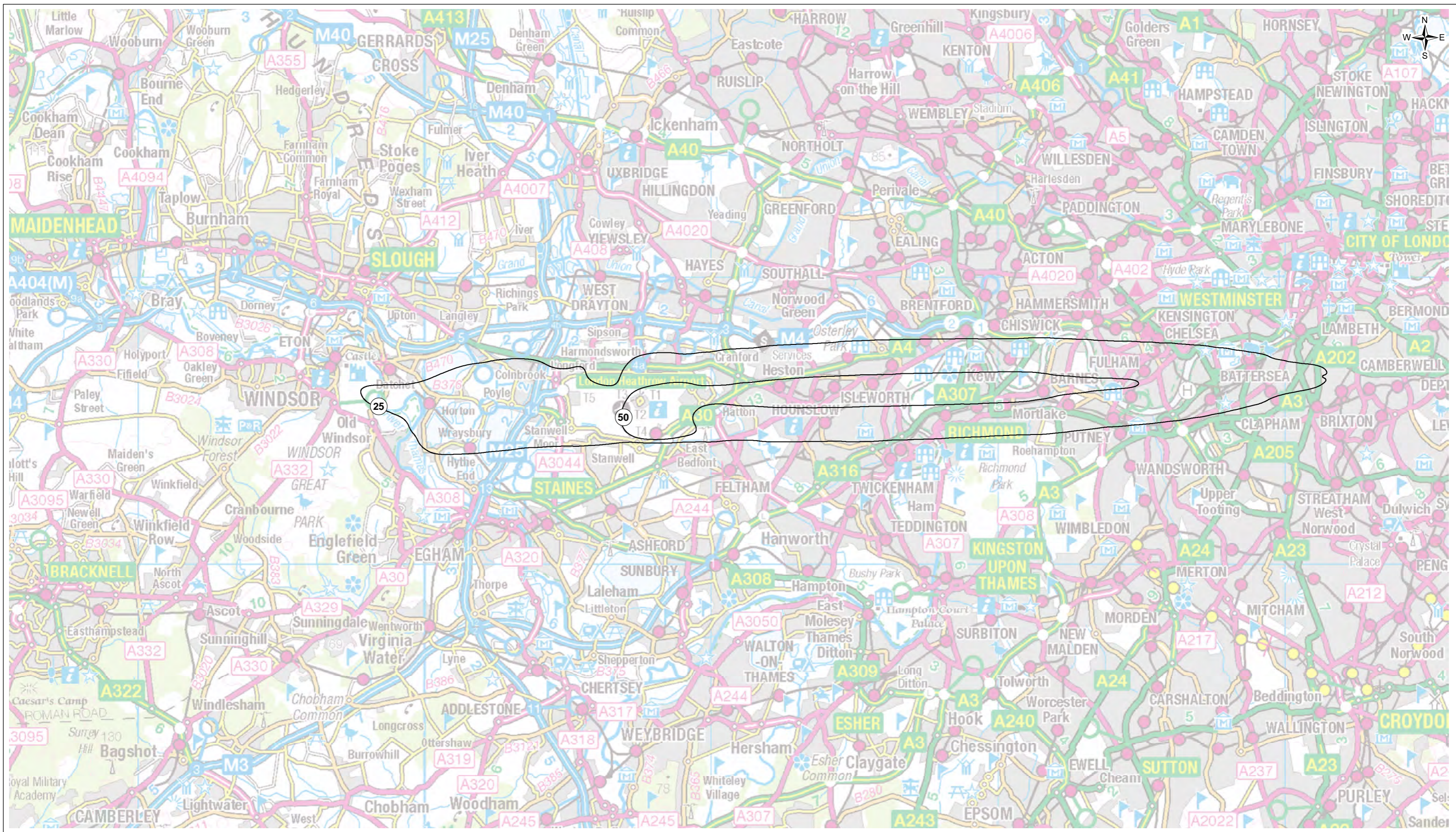
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Legend

— $L_{Aeq,8h}$ dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3017	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway 'Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Scale		DO NOT SCALE				Client	
Jacobs No.		B4160007					
Drawing No.		B4160007_LNA3017					



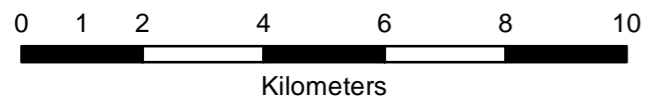
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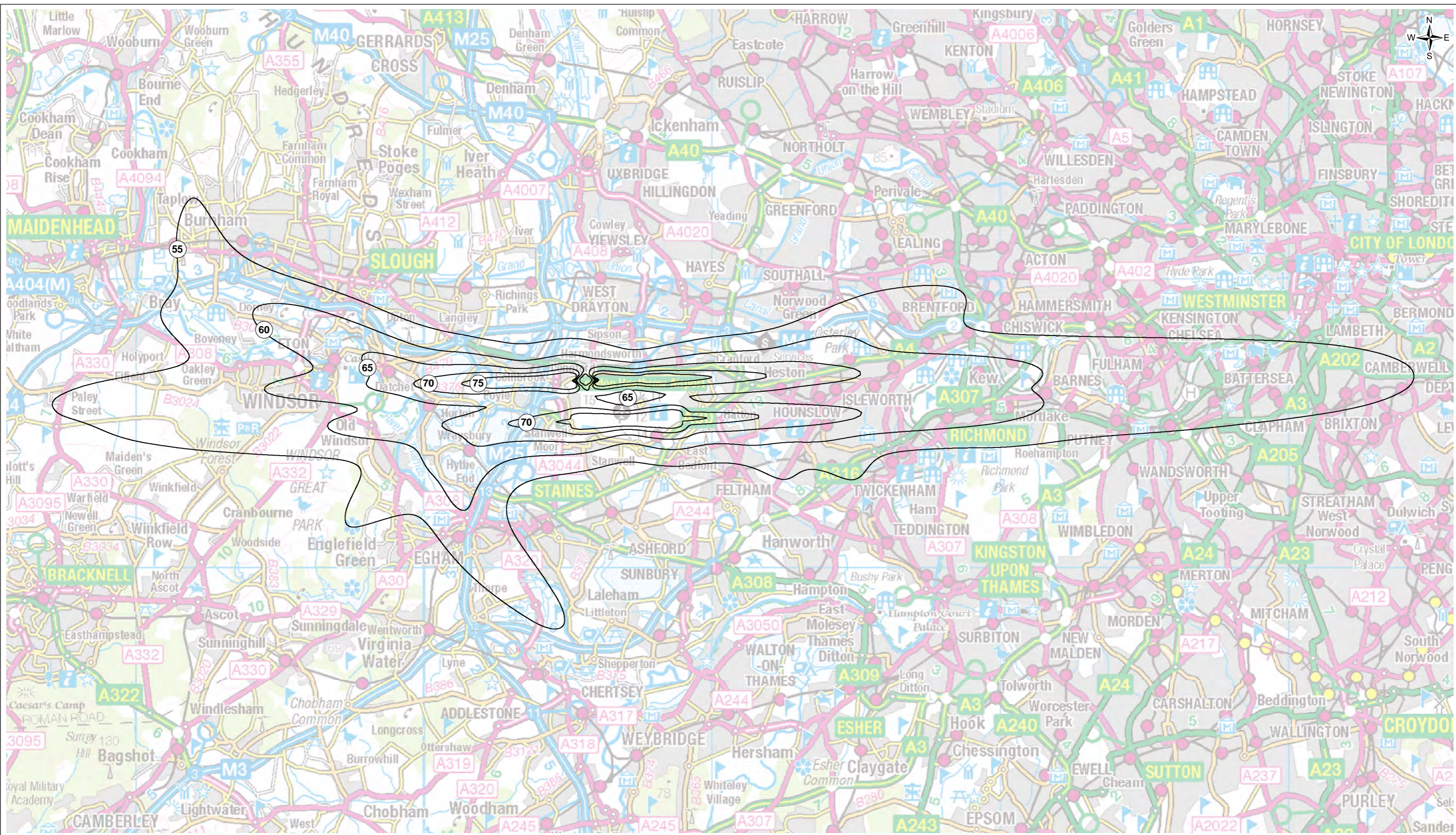
— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3018	
Drawing Title		Heathrow Airport 2030 Extended Northern Runway 'Carbon Traded' Option N60 Contours				JACOBS	
0		OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3		1:125,000				DO NOT SCALE	
Jacobs No.		B4160007				Client	
Client No.							
Drawing No.		B4160007_LNA3018					

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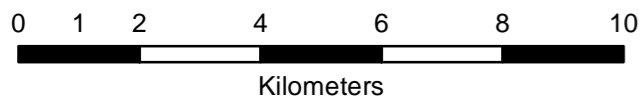
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— L_{den} dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA3019

Drawing Title
Heathrow Airport
2030 Extended Northern Runway 'Carbon Traded' Option
Lden Contours



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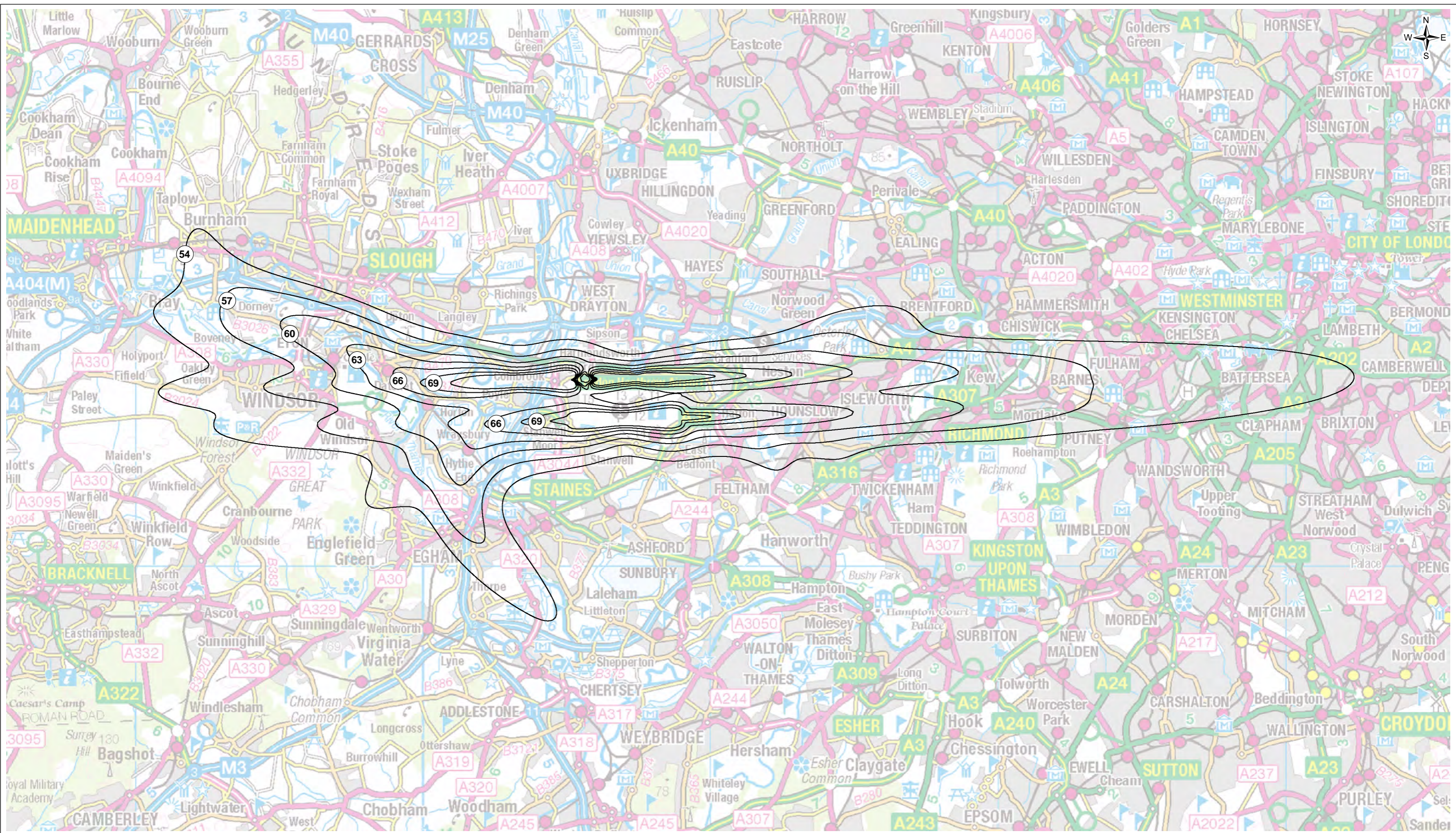
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Client No.

Drawing No. B4160007_LNA3019





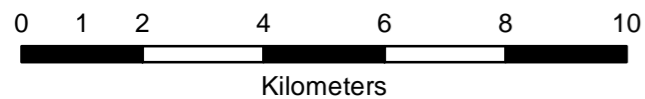
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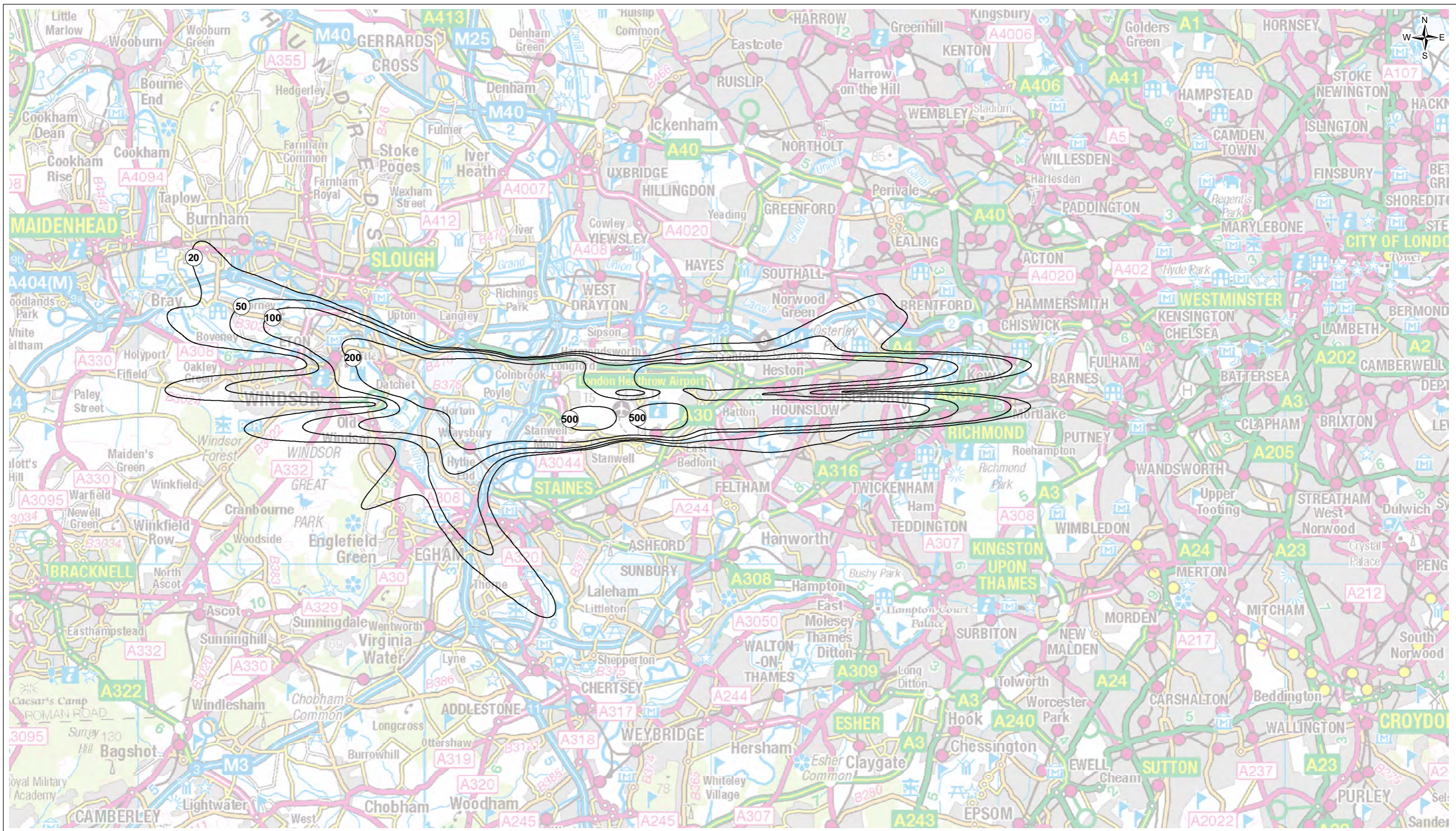
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— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3020	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway 'Carbon Traded' Option L _{Aeq,16h} Contours				JACOBS	
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Scale		DO NOT SCALE				Client	
Jacobs No.		B4160007					
Client No.							
Drawing No.		B4160007_LNA3020					



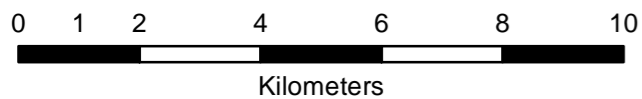
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— N70



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA3021

Drawing Title
Heathrow Airport
2040 Extended Northern Runway 'Carbon Traded' Option
N70 Contours



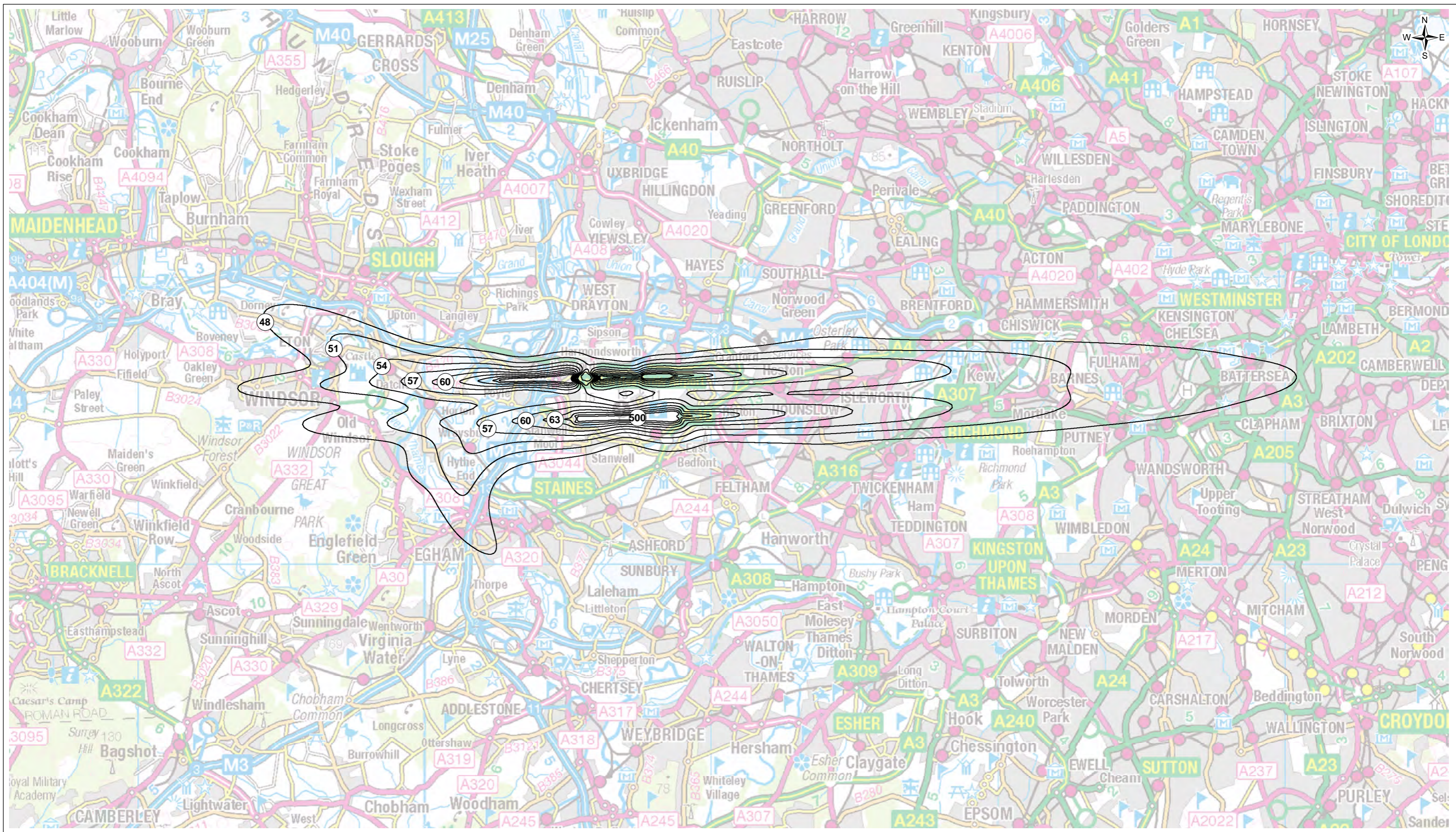
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Drawing No. B4160007_LNA3021





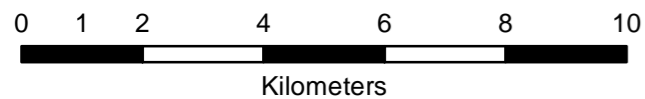
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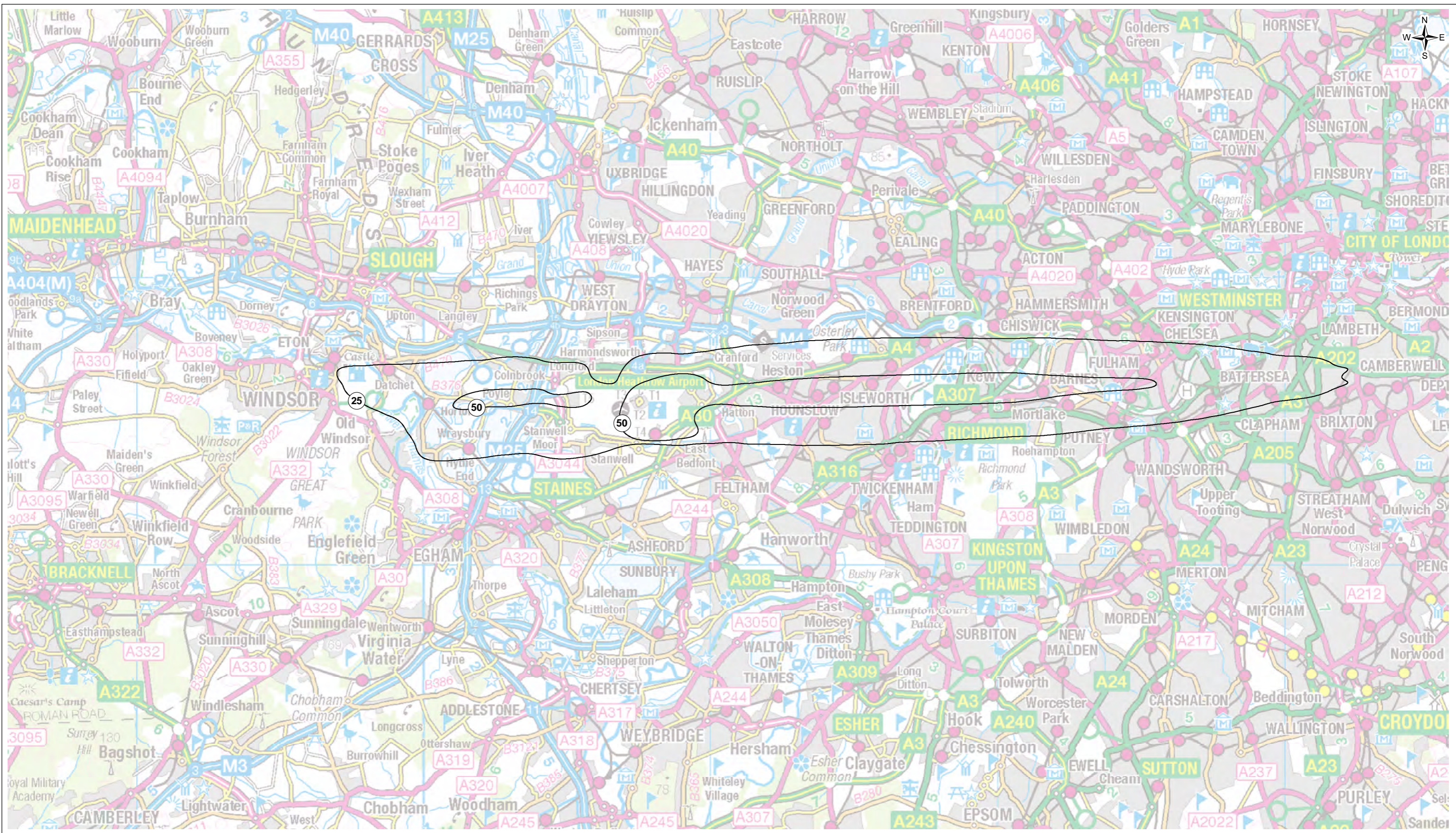
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— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3022	
Drawing Title		Heathrow Airport 2040 Extended Northern Runway 'Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS	
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Drawing No. B4160007_LNA3022							



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— N60



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA3023

Drawing Title
Heathrow Airport
2040 Extended Northern Runway 'Carbon Traded' Option
N60 Contours



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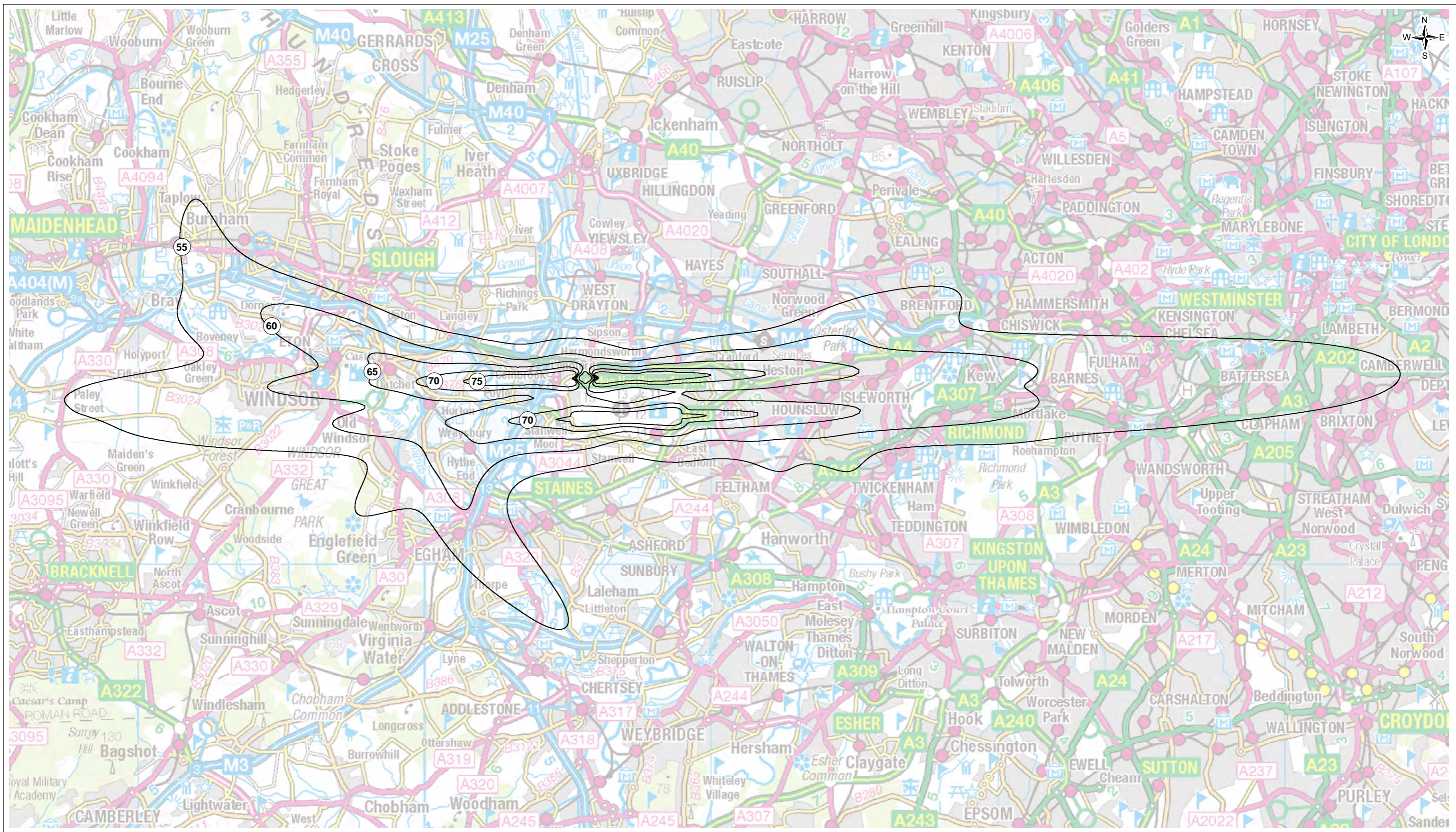
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Jacobs No. B4160007

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Drawing No. B4160007_LNA3023





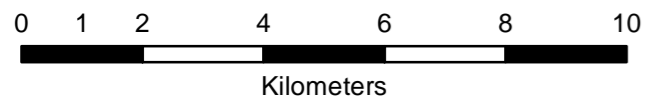
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Legend

— L_{den} dB



Project
**AIRPORTS COMMISSION
LOCAL NOISE ASSESSMENT**

FIGURE LNA3024

Drawing Title
Heathrow Airport
2040 Extended Northern Runway 'Carbon Traded' Option
Lden Contours



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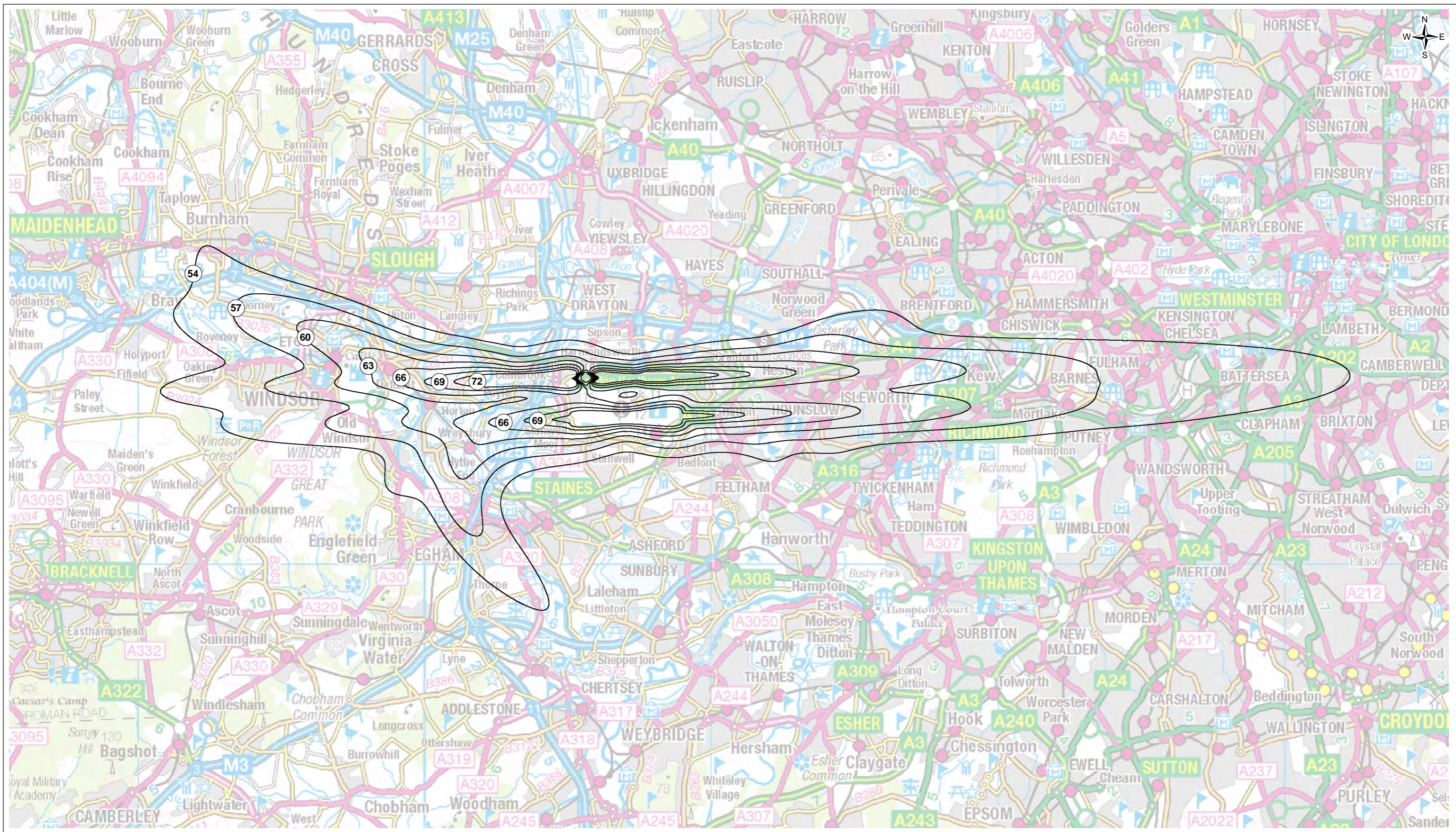
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Jacobs No. B4160007

Client No.

Drawing No. B4160007_LNA3024





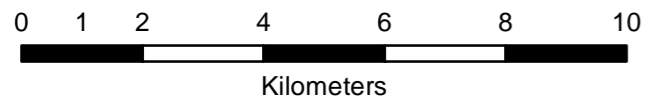
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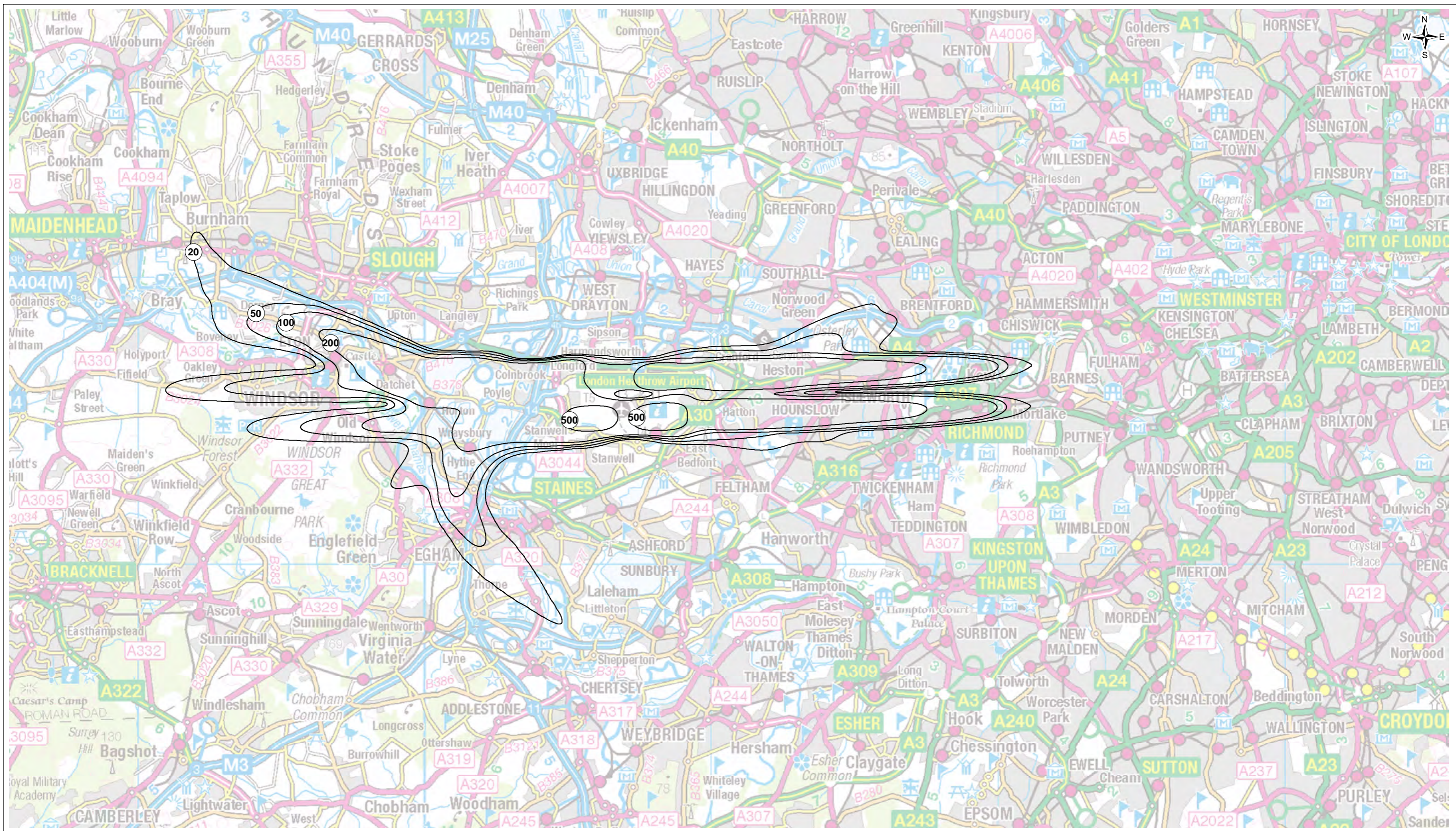
— L_{Aeq,16h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3025
Drawing Title		Heathrow Airport 2050 Extended Northern Runway 'Carbon Traded' Option L _{Aeq,16h} Contours				
0	OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Scale @ A3 1:125,000		DO NOT SCALE				Client
Jacobs No. B4160007						
Drawing No.						
Drawing No.		B4160007_LNA3025				

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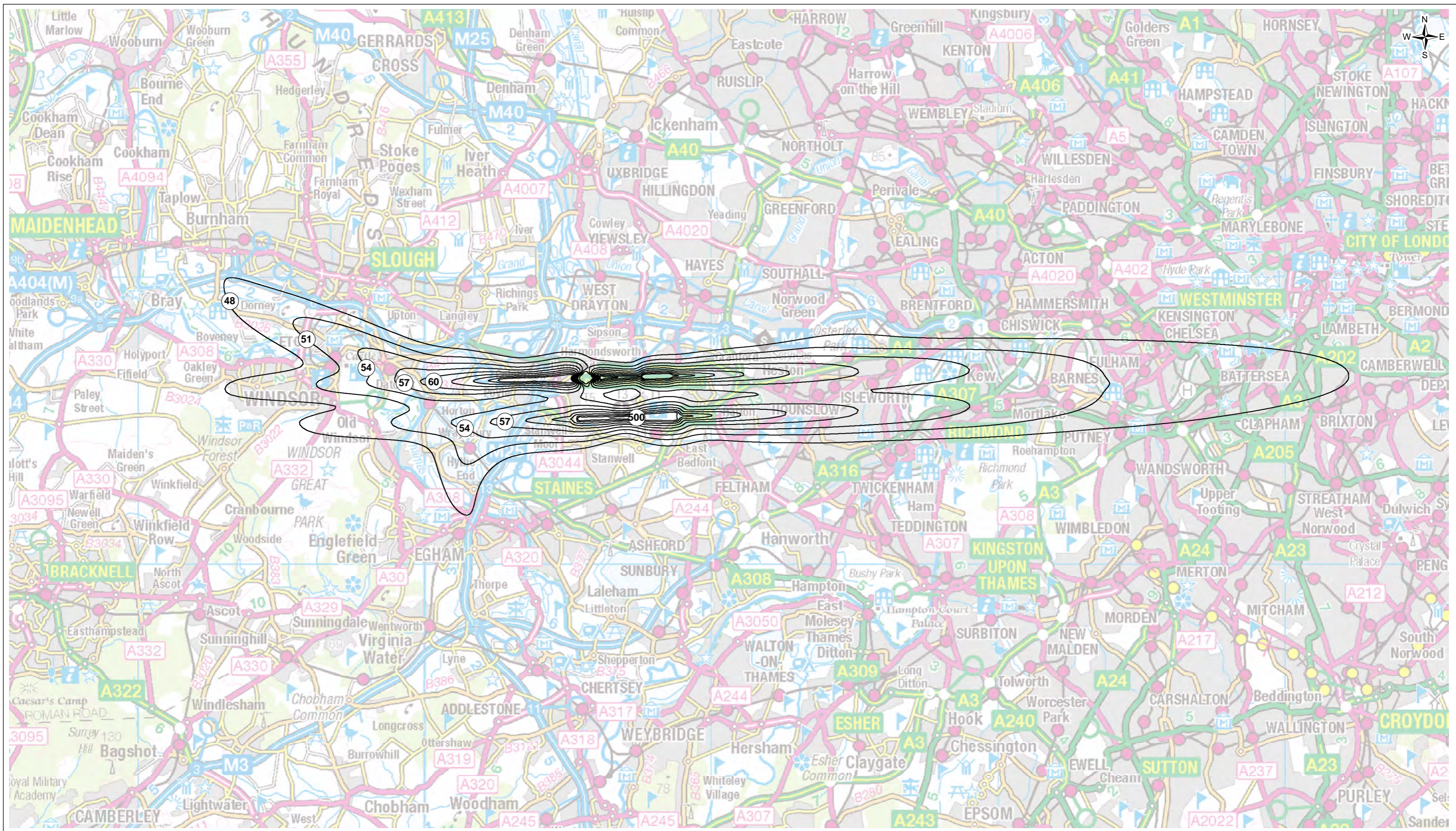
— N70



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3026	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway 'Carbon Traded' Option N70 Contours				JACOBS	
0		OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3		1:125,000				DO NOT SCALE	
Jacobs No.		B4160007				Client	
Client No.							
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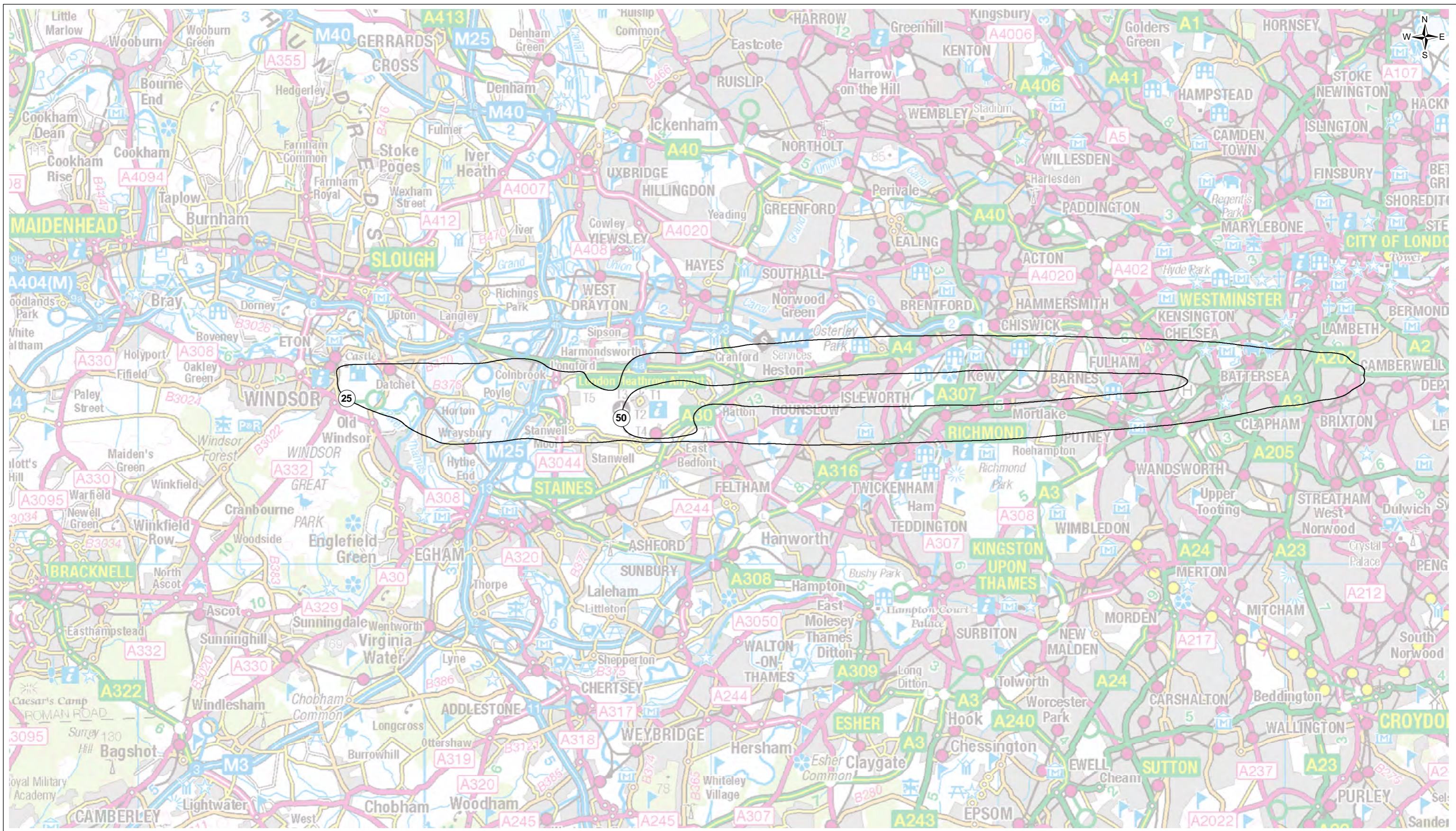
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Legend

— L_{Aeq,8h} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3027		
Drawing Title		Heathrow Airport 2050 Extended Northern Runway 'Carbon Traded' Option L _{Aeq,8h} Contours				JACOBS		
Scale @ A3		1:125,000				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com		
0	OCT 14	Initial Issue	JA	SW	SW	CT	Client Airports Commission	
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd		
DO NOT SCALE								
Jacobs No. B4160007								
Drawing No.		B4160007_LNA3027						



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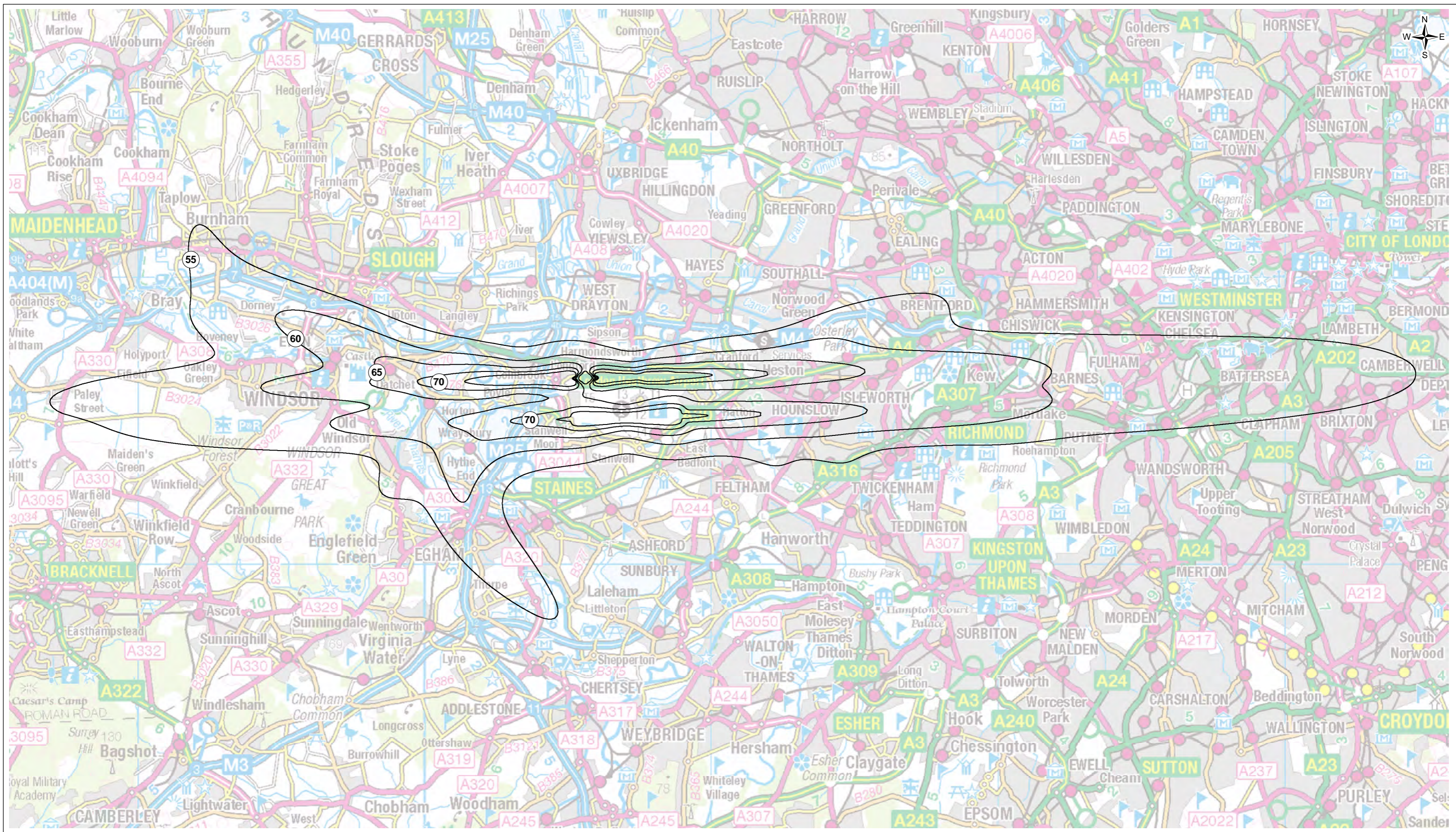
Legend

— N60



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3028	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway 'Carbon Traded' Option N60 Contours				JACOBS	
0		OCT 14	Initial Issue	JA	SW	SW	CT
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd	
Scale @ A3		1:125,000				DO NOT SCALE	
Jacobs No.		B4160007				Client	
Client No.							
Drawing No.		B4160007_LNA3028					

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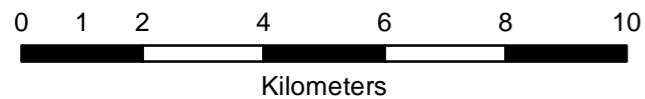
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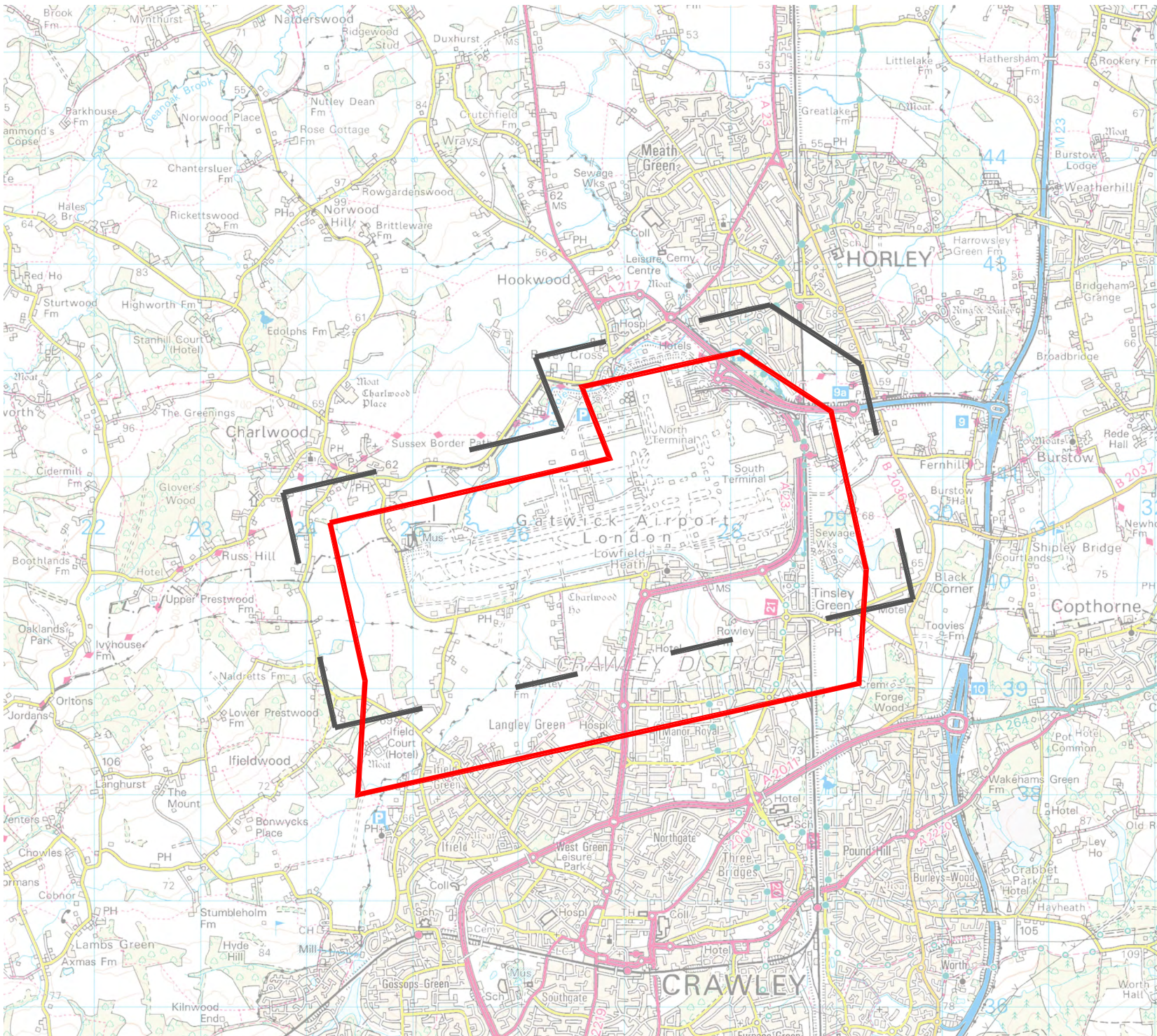
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Legend

— L_{den} dB



Project		AIRPORTS COMMISSION LOCAL NOISE ASSESSMENT				FIGURE LNA3029	
Drawing Title		Heathrow Airport 2050 Extended Northern Runway 'Carbon Traded' Option Lden Contours				JACOBS	
Scale @ A3 1:125,000		DO NOT SCALE				Newminster House, 27-29 Baldwin Street, Bristol, BS1 1LT Tel: +44(0)117 917 0805 www.jacobs.com	
Client		Airports Commission					
Drawing No.		B4160007_LNA3029					



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LEGEND:

- 2030 Do Minimum
- 2030 Gatwick 2R (GAL)

REVISIONS

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Architecture
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121 Salusbury Road, London, NW6 6RG
Email: mail@bickerdikeallen.com
www.bickerdikeallen.com

T: 0207 625 4411
F: 0207 625 0250

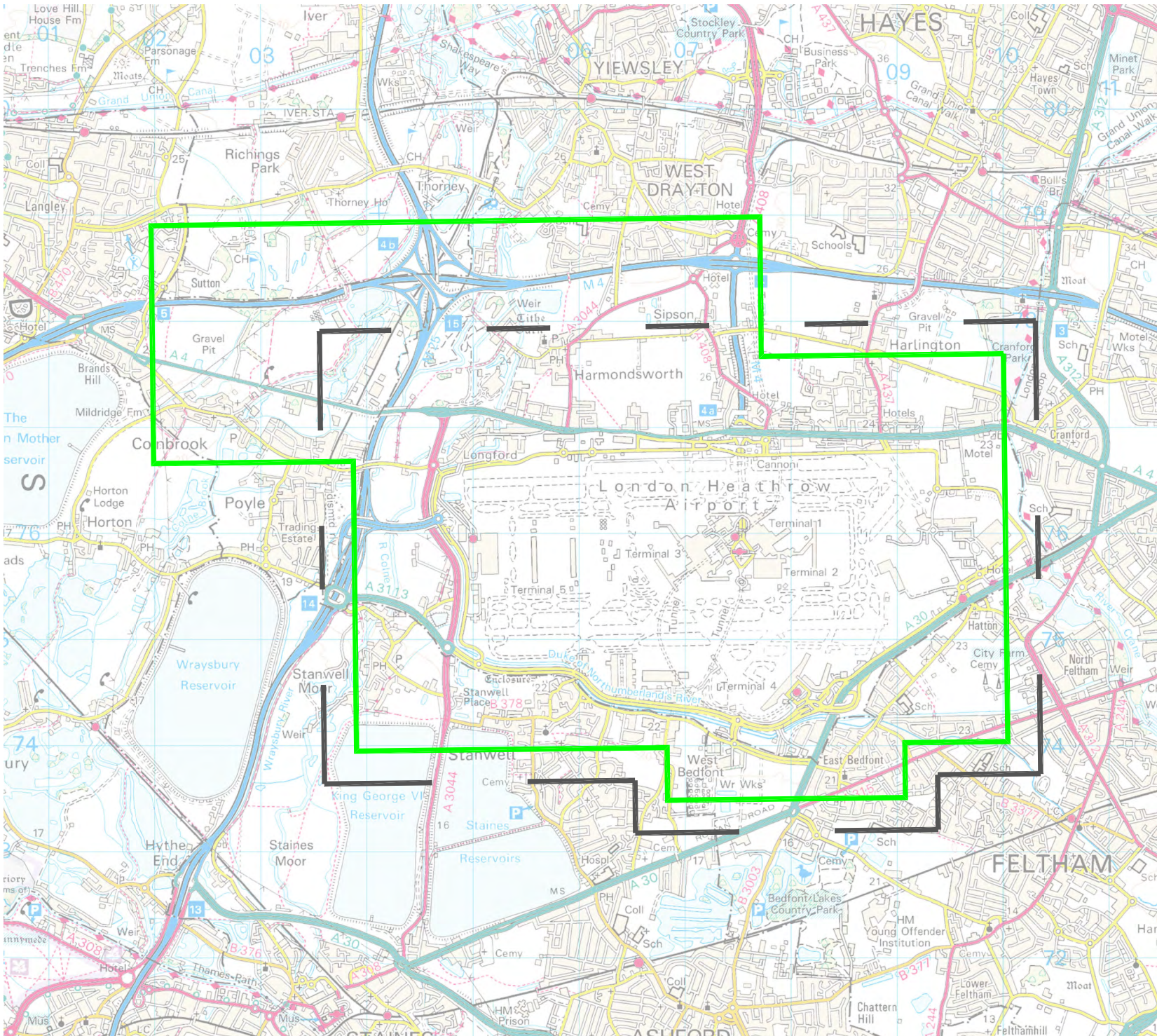
Airports Commission

**Gatwick Airport 2030
Do-Minimum Vs Gatwick 2R
Ground Noise Contours, 57 dB L_{Aeq,16h}**

DRAWN: DR CHECKED: DC



DATE: October 2014 SCALE: 1:50000@A4

FIGURE No:



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LEGEND:

-  Do Minimum
-  Heathrow NWR (HAL)

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121 Salusbury Road, London, NW6 6RG
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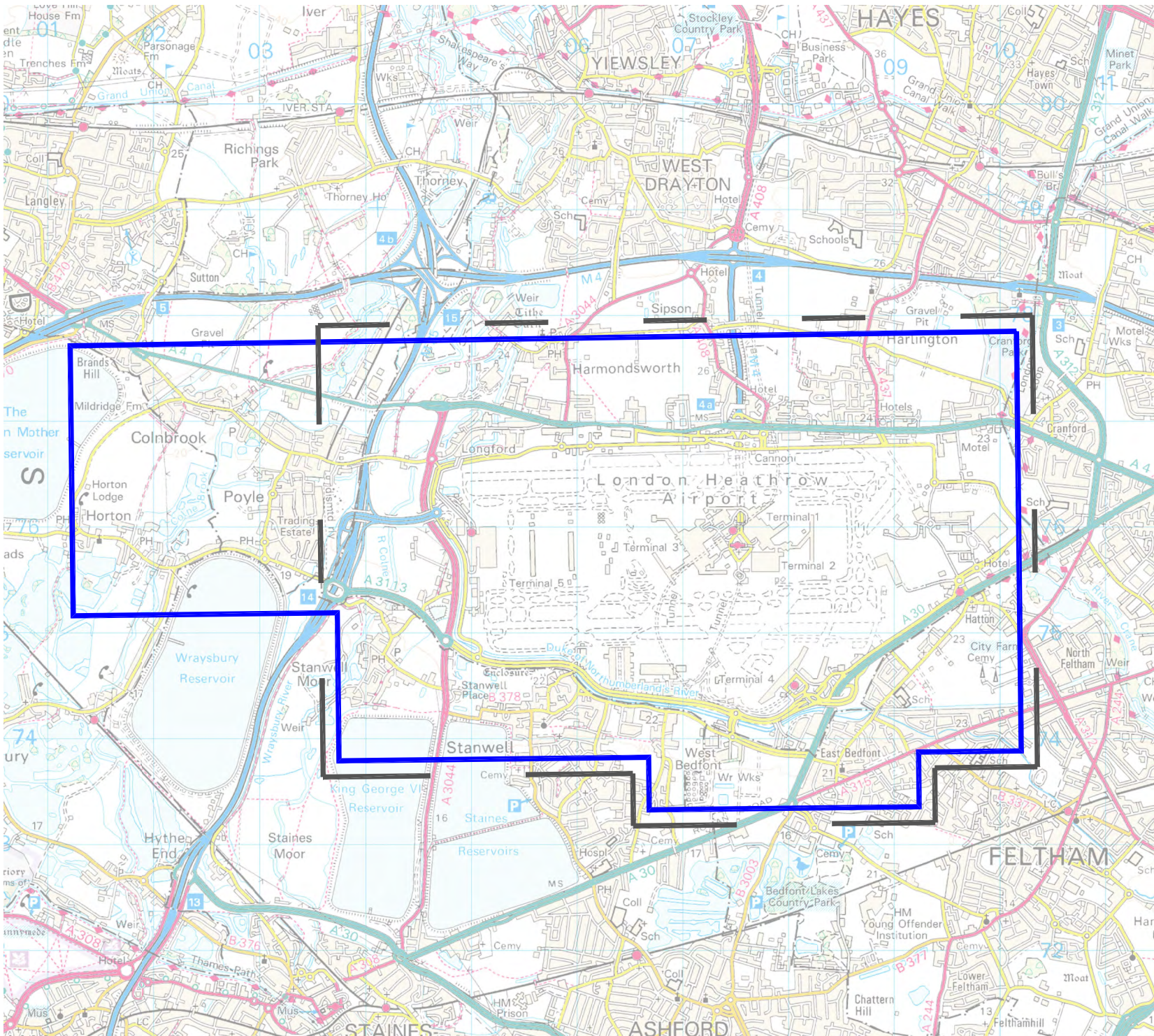
Airports Commission

Heathrow Airport 2030
 Do-Minimum Vs Heathrow NWR
 Ground Noise Contours, 57 dB L_{Aeq,16h}

DRAWN: DR CHECKED: DC

DATE: October 2014 SCALE: 1:50000@A4

FIGURE No:



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LEGEND:

- Do Minimum
- Heathrow ENR (HH)

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Airports Commission

Heathrow Airport 2030
Do-Minimum Vs Heathrow ENR
Ground Noise Contours, 57 dB L_{Aeq,16h}

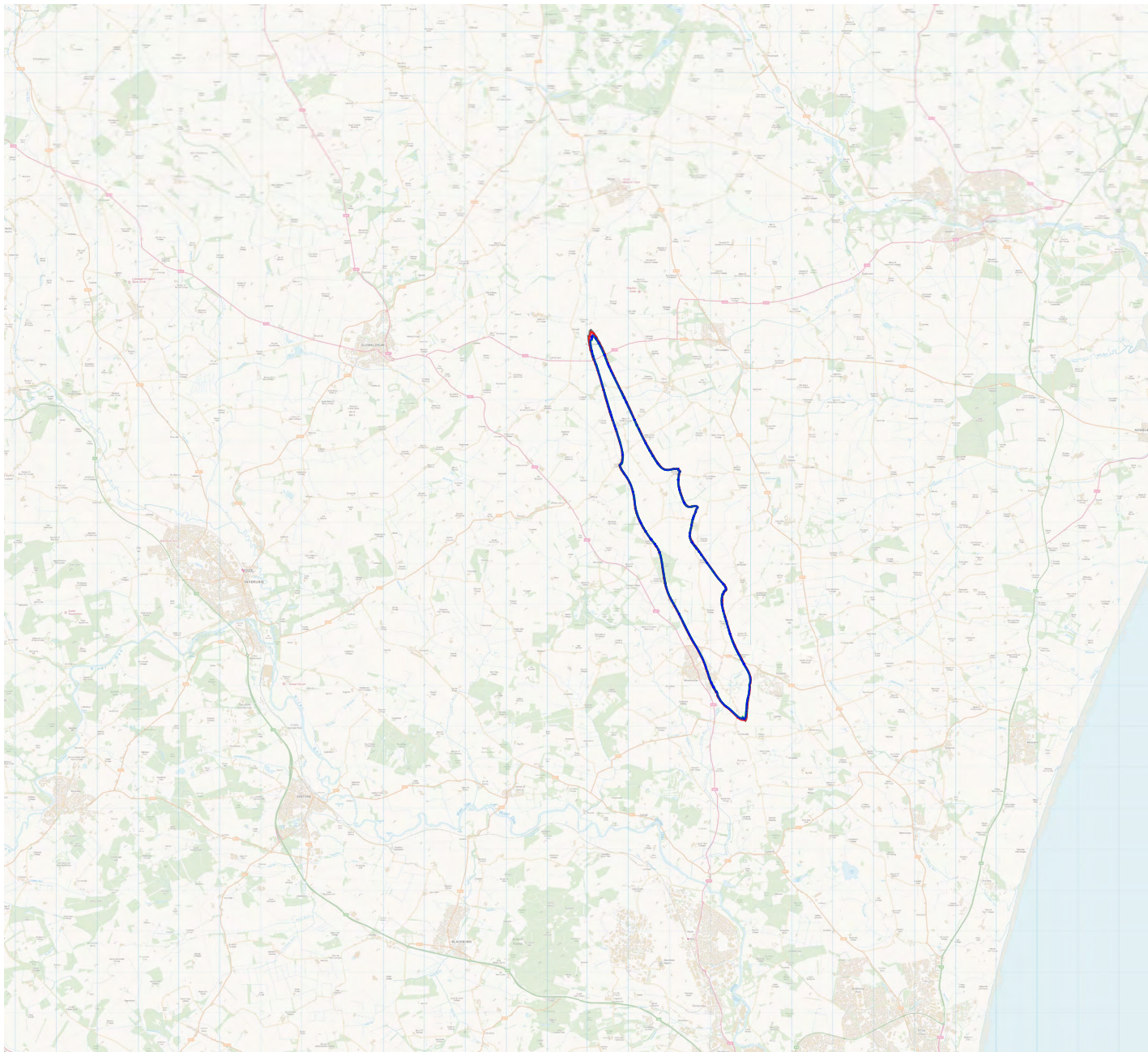
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DATE: October 2014 SCALE: 1:50000@A4

FIGURE No:

LNA-A3

Part B National Noise Assessment Figures



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

Aberdeen Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

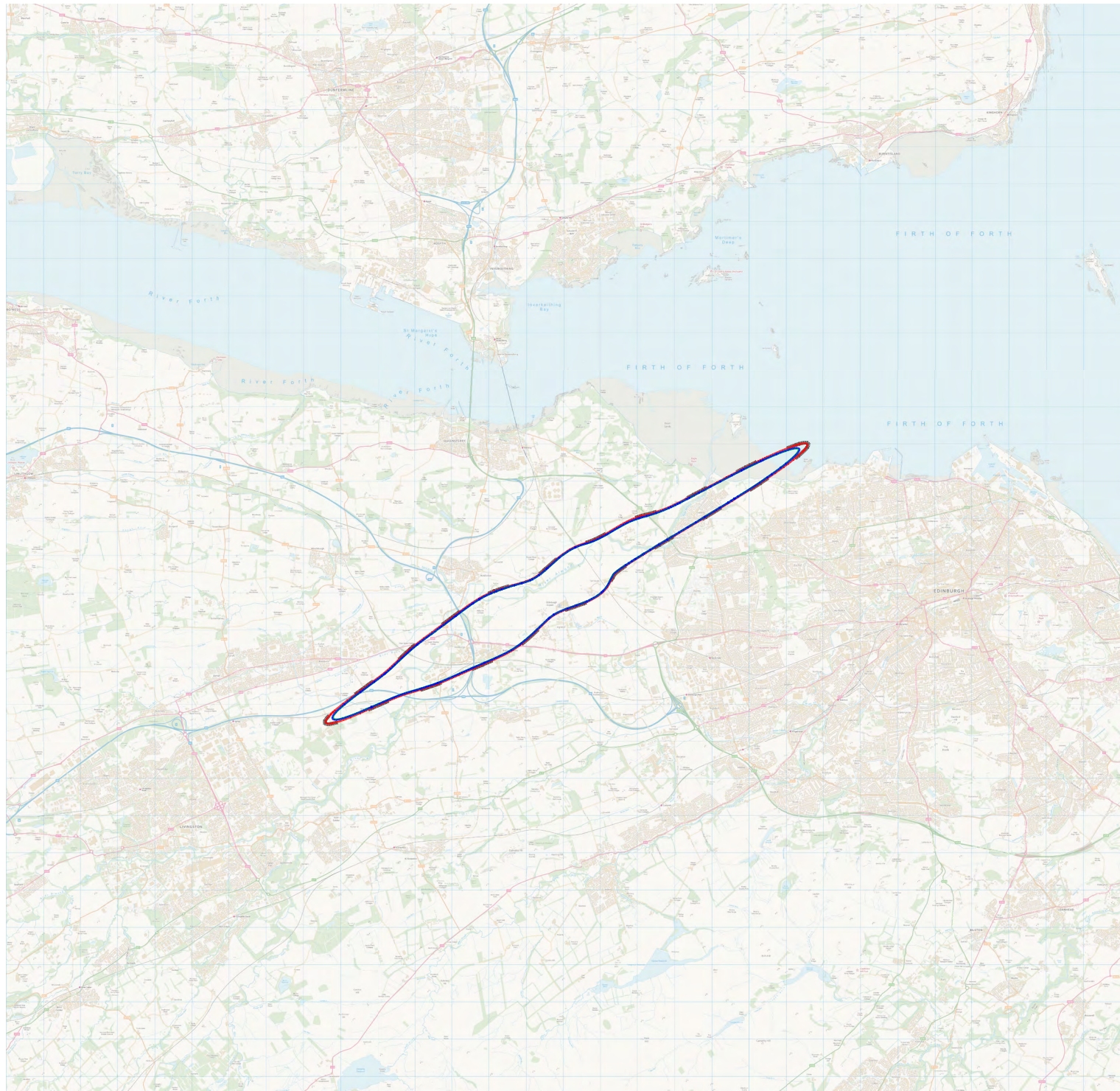
CHECKED: DC

DATE: October 2014

SCALE: 1:150000@A4

FIGURE No:

NNA1



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LEGEND:

- Do Minimum
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- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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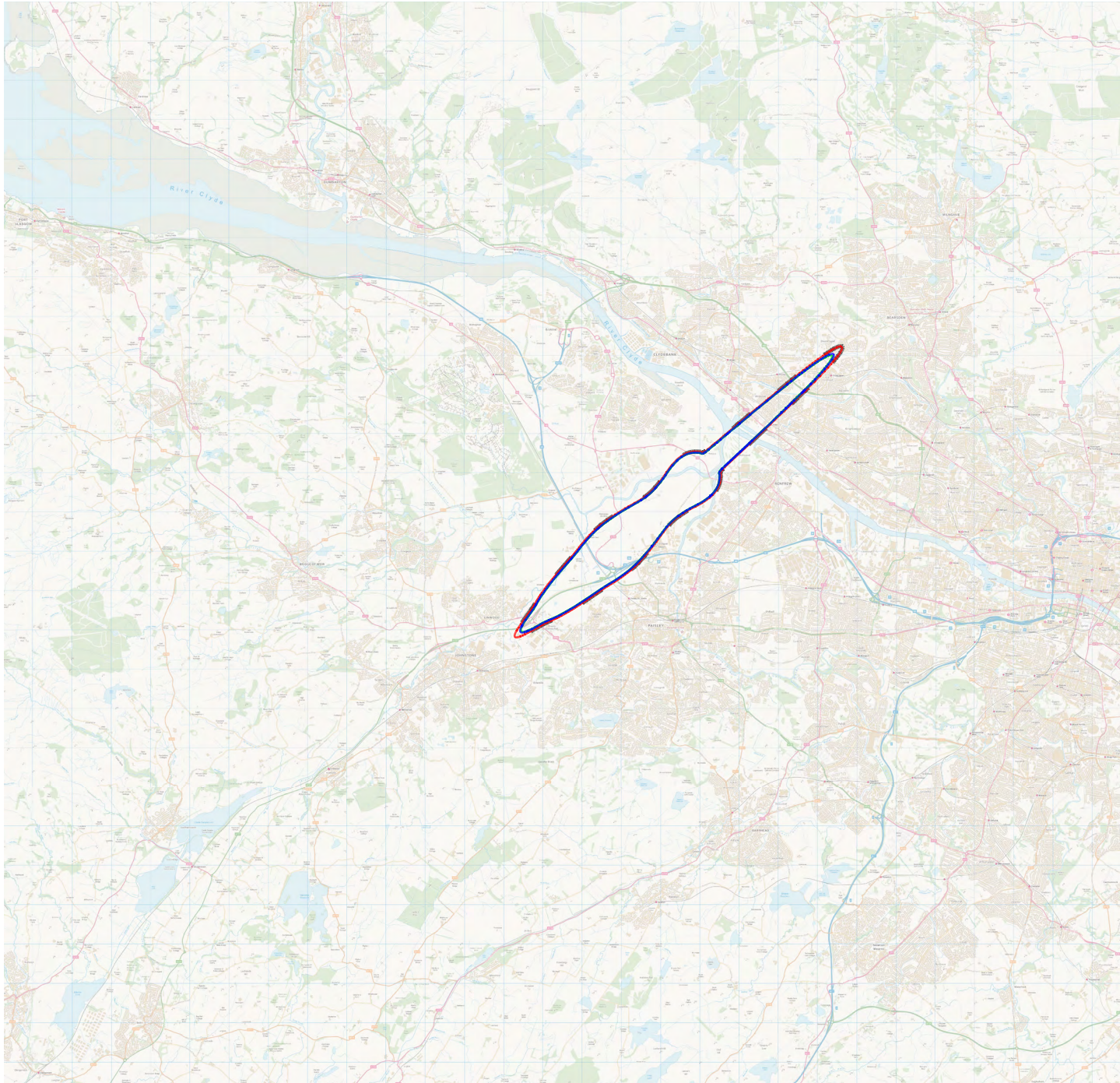
Airports Commission
National Noise Study

Edinburgh Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR CHECKED: DC

DATE: October 2014 SCALE: 1:150000@A4

FIGURE No:



LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

Glasgow Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

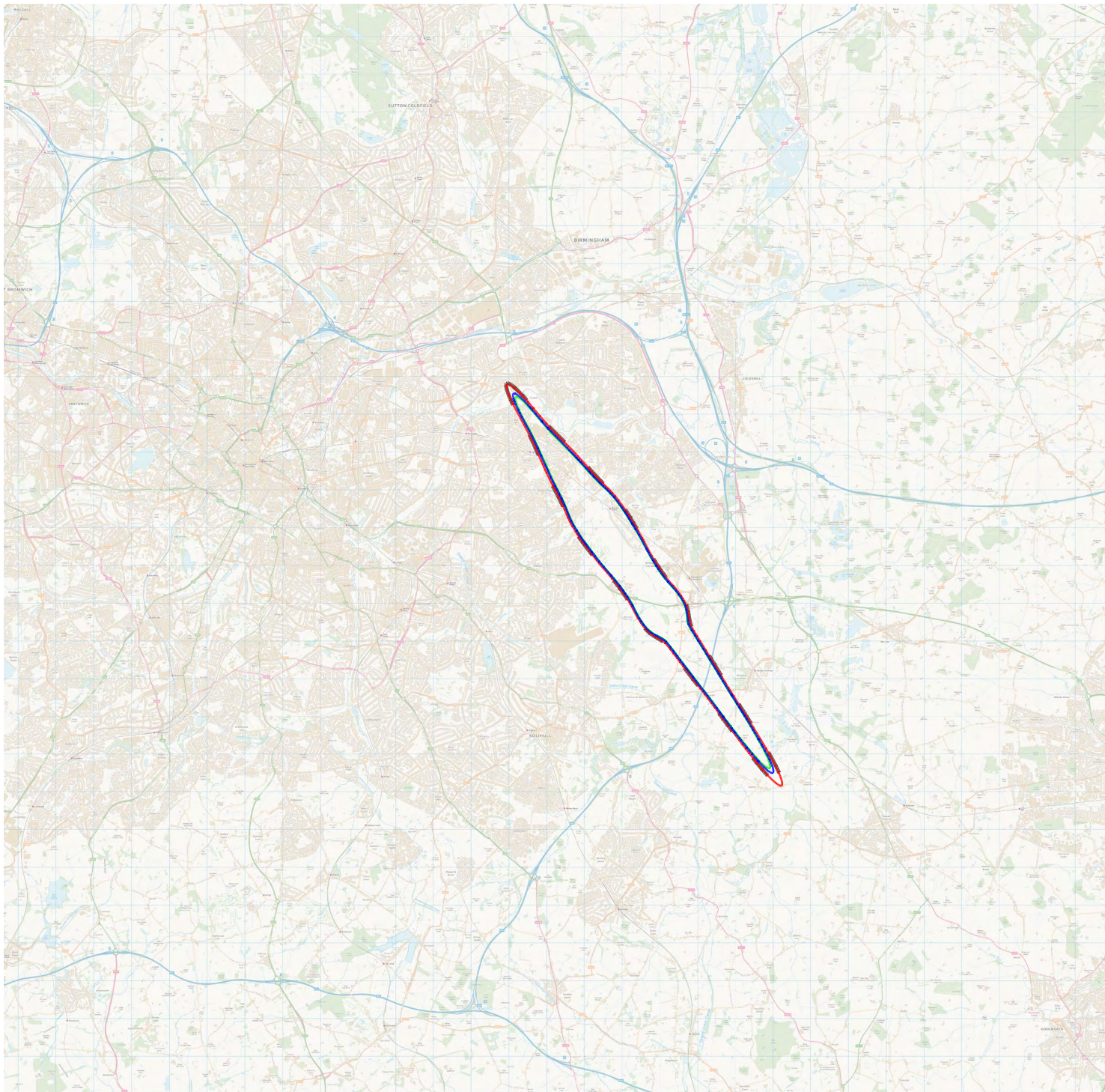
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DATE: October 2014

SCALE: 1:150000@A4

FIGURE No:

NNA3



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

Birmingham Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

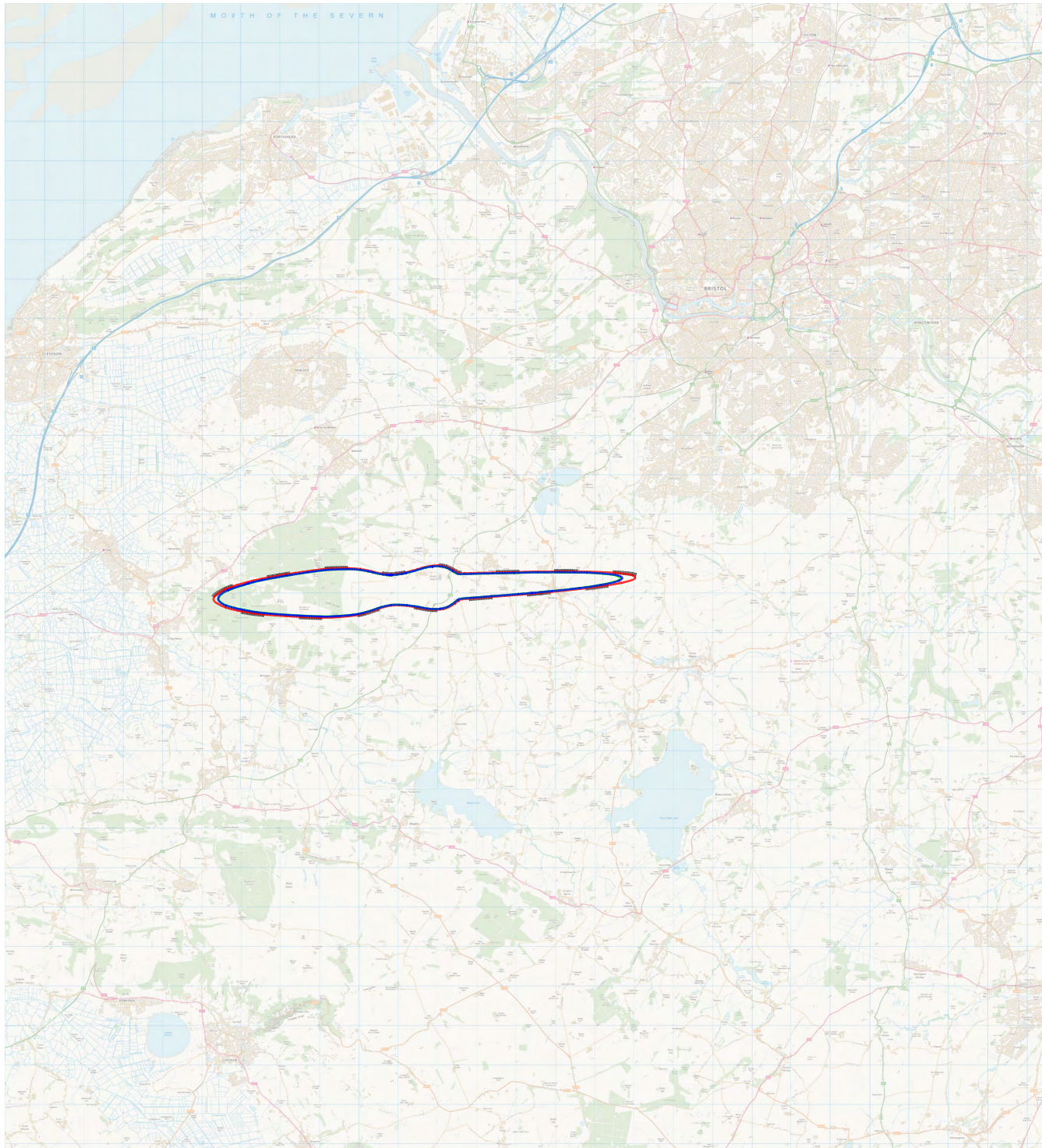
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SCALE: 1:150000@A4

FIGURE No:

NNA4



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

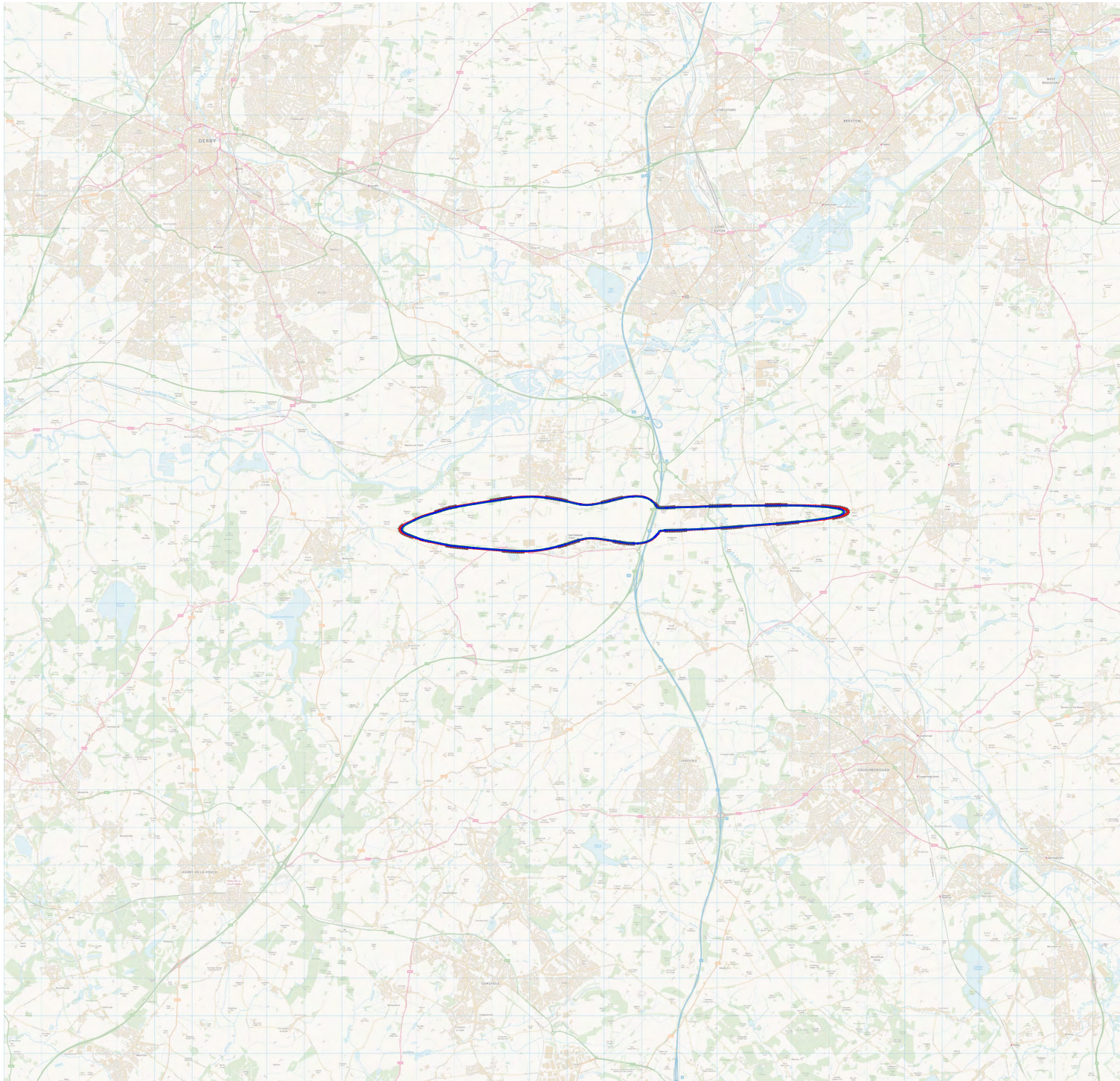
Bristol Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR CHECKED: DC

DATE: October 2014 SCALE: 1:150000@A4

FIGURE No:

NNA5



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

East Midlands Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

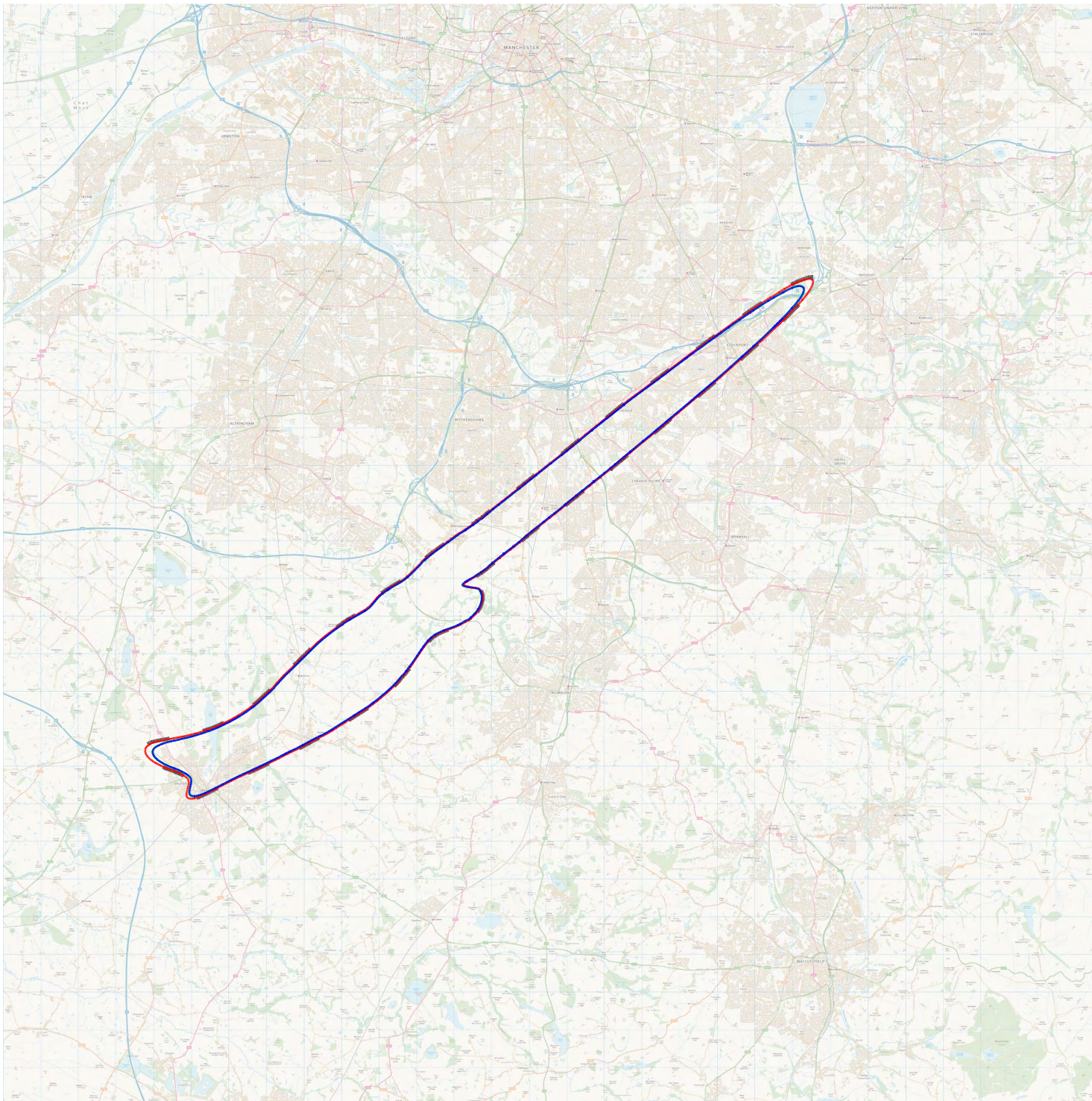
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DATE: October 2014

SCALE: 1:150000@A4

FIGURE No:

NNA6



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

Manchester Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

CHECKED: DC

DATE: October 2014

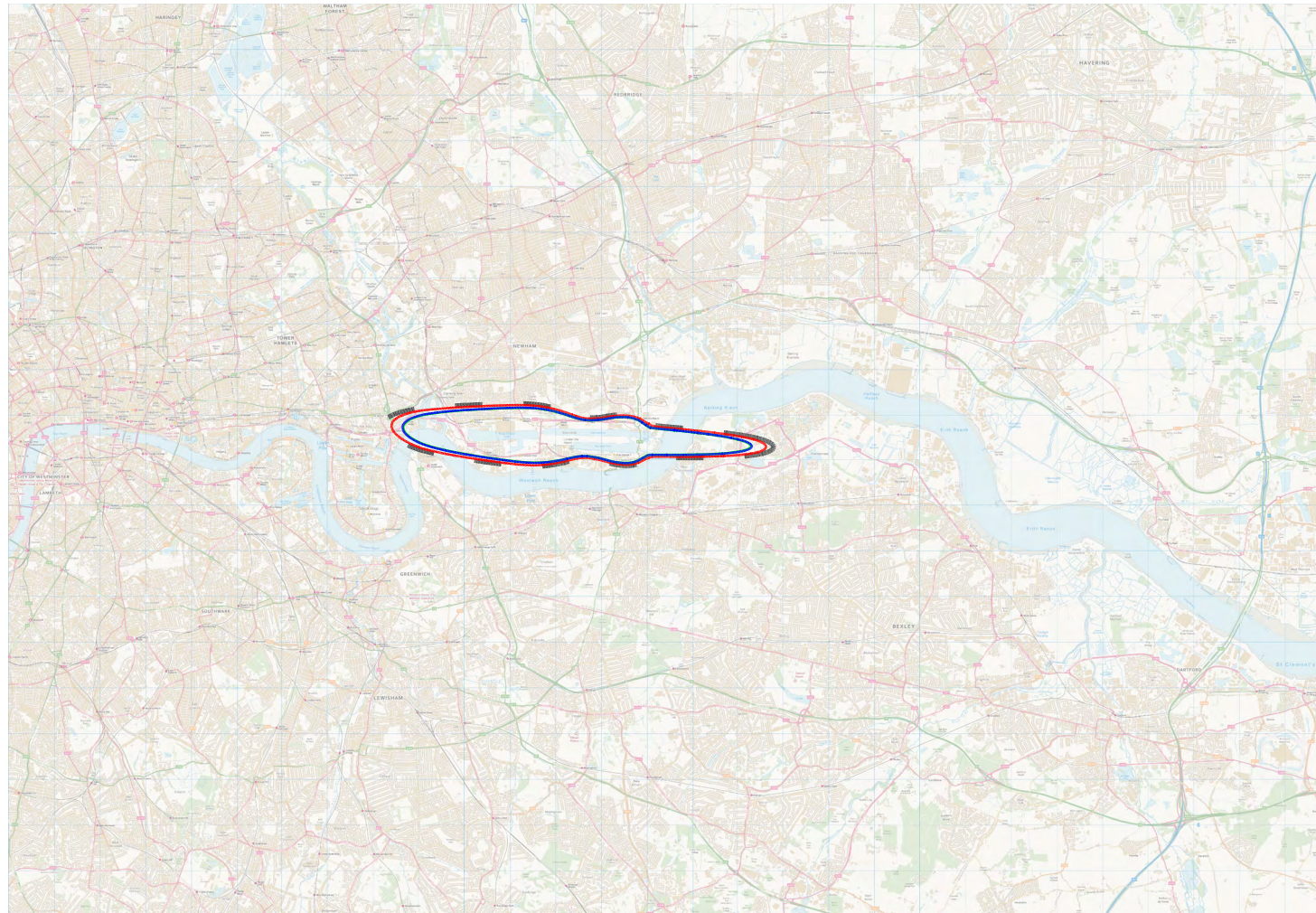
SCALE: 1:150000@A4

FIGURE No:

NNA7

LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)



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Airports Commission
National Noise Study

London City Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

CHECKED: DC

DATE: October 2014

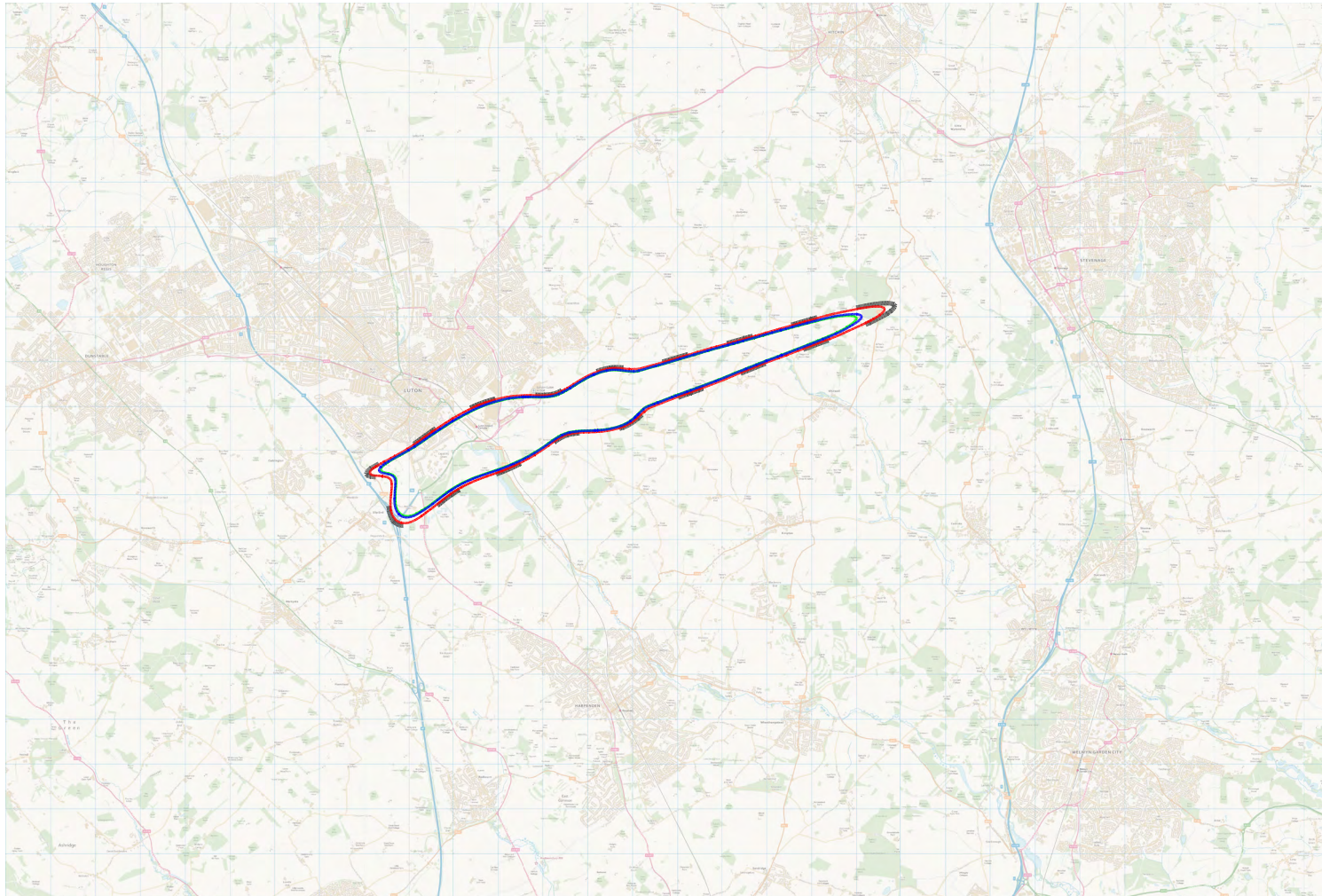
SCALE: 1:150000@A4

FIGURE No:

NNA8

LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)



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Airports Commission
National Noise Study

Luton Airport
2030 57 dB L_{Aeq,16h}
Air Noise Contours

DRAWN: DR

CHECKED: DC

DATE: October 2014

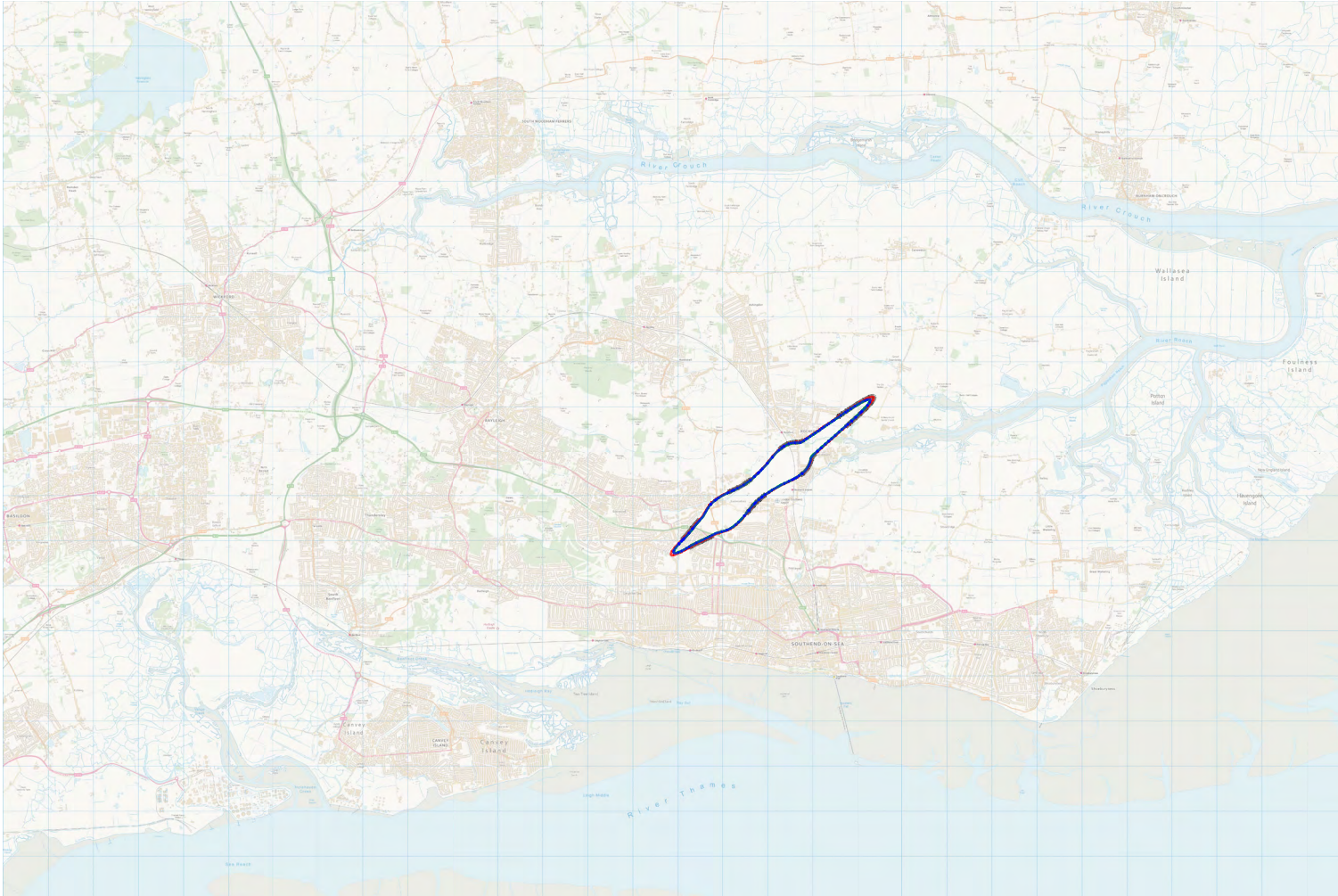
SCALE: 1:150000@A4

FIGURE No:

NNA9

LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)



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Airports Commission
National Noise Study

Southend Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

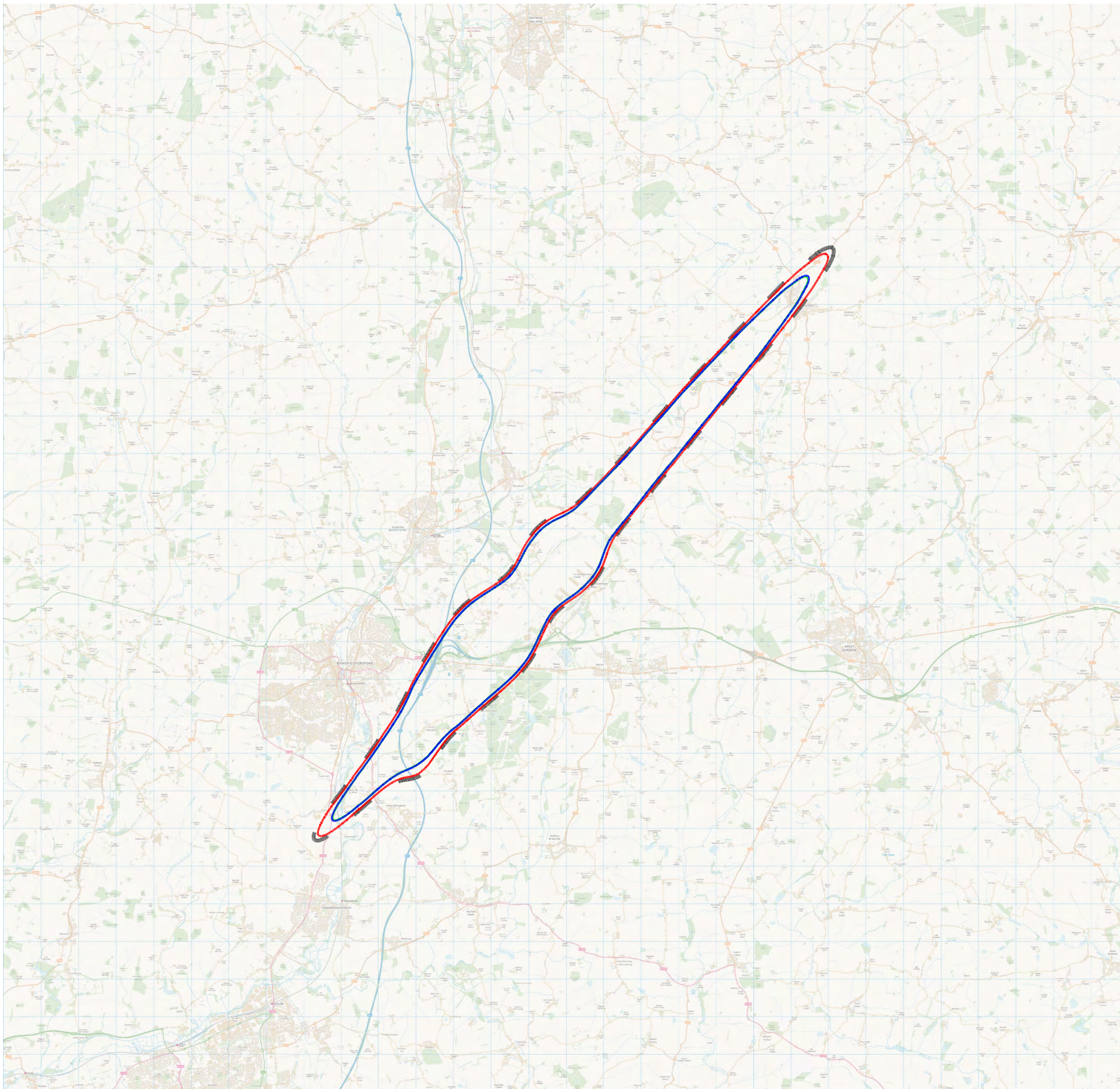
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DATE: October 2014

SCALE: 1:150000@A4

FIGURE No:

NNA10



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

Stansted Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR

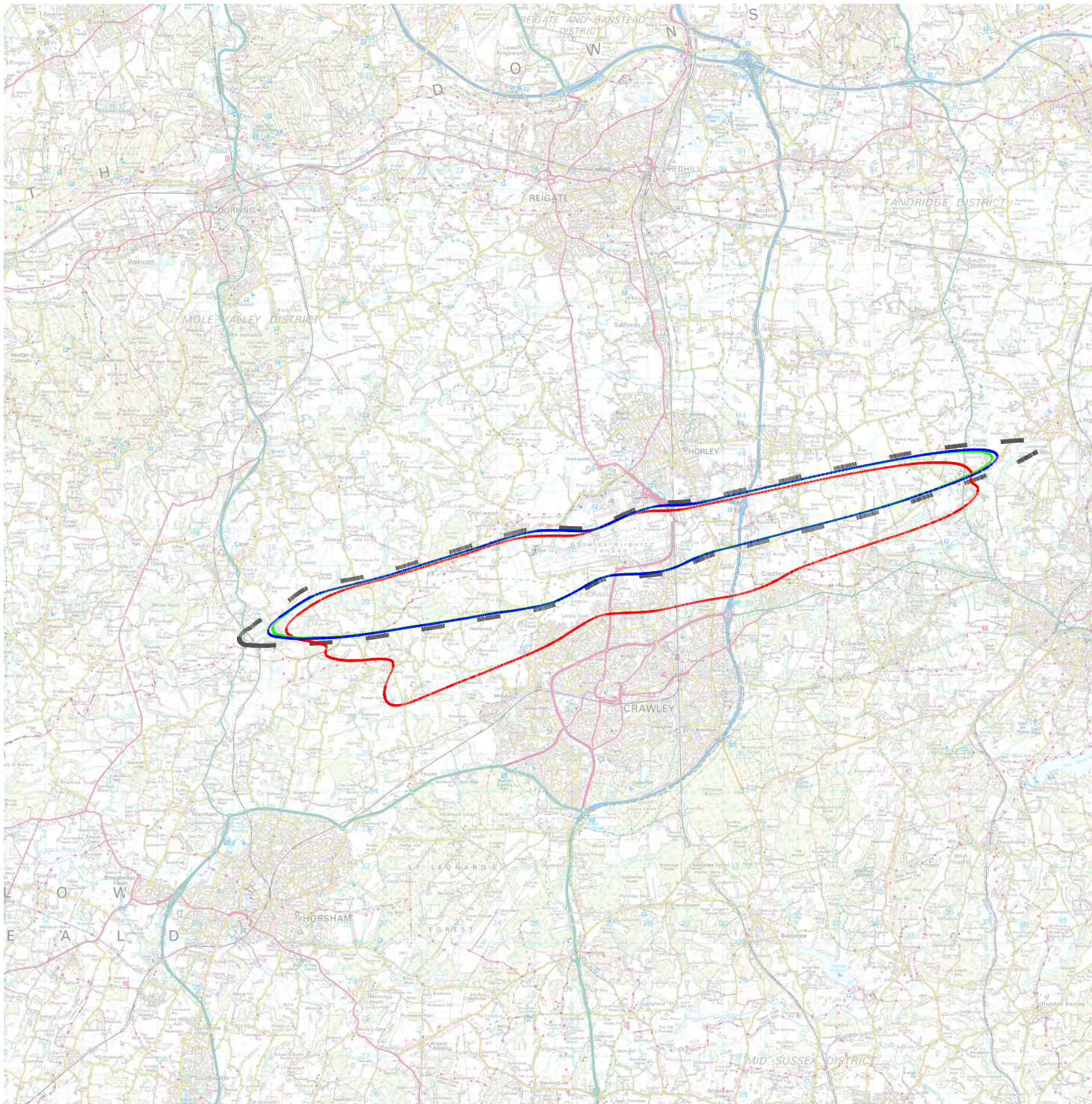
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FIGURE No:

NNA11



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

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Airports Commission
National Noise Study

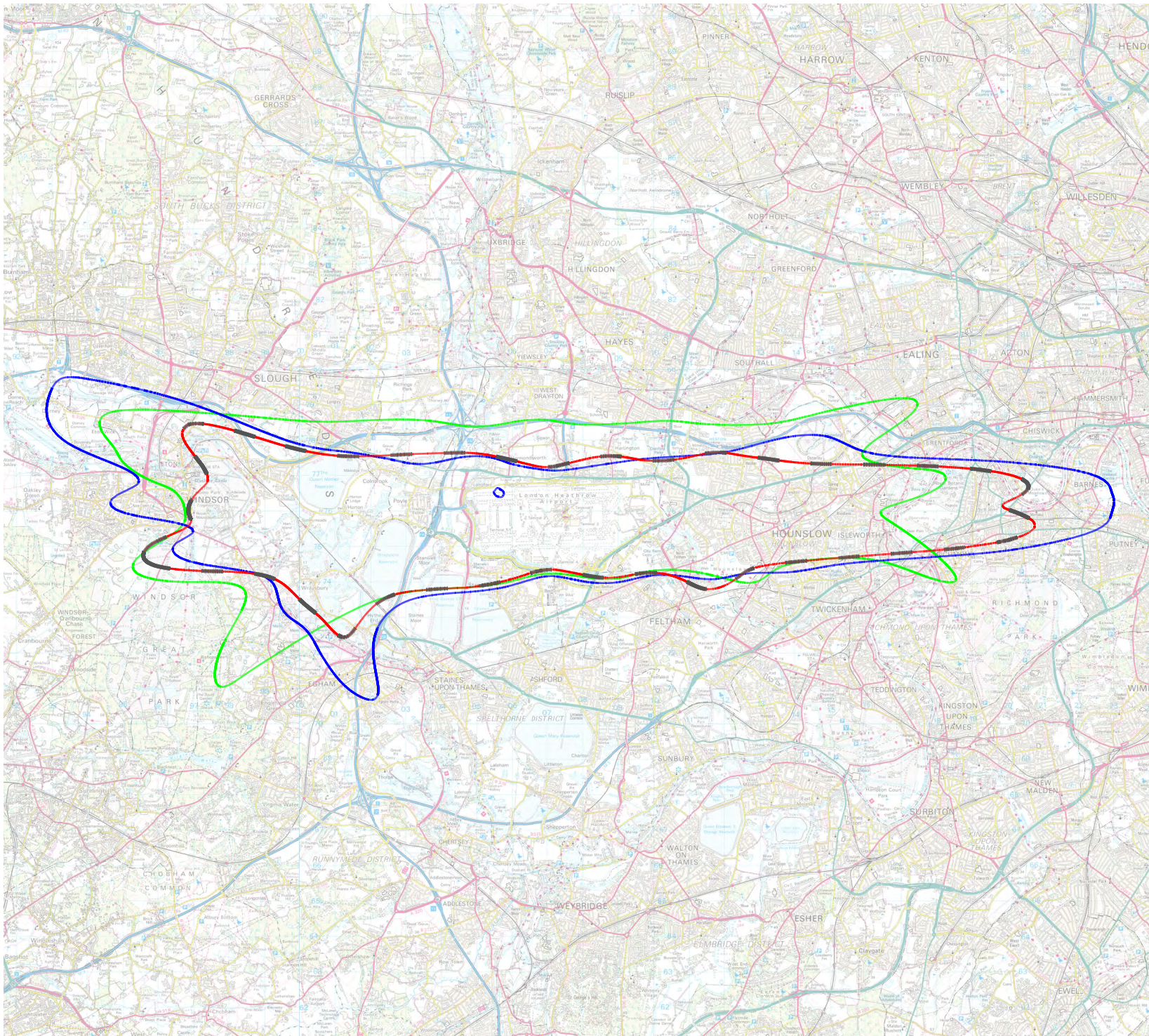
Gatwick Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

DRAWN: DR CHECKED: DC

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FIGURE No:

NNA12



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LEGEND:

- Do Minimum
- GAL (Gatwick 2R)*
- HAL (Heathrow NWR)
- HH (Heathrow ENR)

*At Heathrow under the Do Minimum and the GAL (Gatwick 2R) options operations are forecast to be the same.

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Airports Commission
National Noise Study

Heathrow Airport
2030 57 dB $L_{Aeq,16h}$
Air Noise Contours

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DATE: October 2014 SCALE: 1:150000@A4

FIGURE No: