CITY AIRPORT DEVELOPMENT PROGRAMME
(CADP1) S73 APPLICATION

ENVIRONMENTAL STATEMENT

VOLUME 2: APPENDICES

DECEMBER 2022

Pell Frischmann

City Airport Development Programme (CADP1) S73 Application

Volume 2: Appendices
Appendix 8.3 Air Noise

December 2022

Appendix 8.3 Air Noise

Introduction

This appendix details the assumptions and methodology used in the assessment of air noise at London City Airport. Detailed air noise results are then presented for the primary and supplementary indicators. The figures listed in Table 8.3.1 below are also provided in this appendix.

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Noise Contour Methodology

The air noise contours and predictions at locations have been produced using software produced by the Federal Aviation Administration (FAA), the Aviation Environmental Design Tool (AEDT) version 3d. The methodology used follows the same approach as for noise contours which are regularly produced for London City Airport as part of the Annual Performance Report (APR). It is detailed in the BAP report A11327_10_RP030, dated 21st April 2022. This methodology was submitted to LBN and approved on 19th October 2022 and is available on the LBN planning website[1].

Based on the criteria set out in CAP2091[2], London City Airport is a Category B airport. Strictly CAP2091 doesn't apply to this noise assessment as it is not being submitted to the CAA, however the methodology used meets and, in some cases, exceeds the Category B requirements for noise modelling set out in CAP2091.

Runway Usage

The 2019 contours are based on the actual runway usage by each individual flight in 2019. For the forecast contours the runway usage is the long-term average runway usage (2017-2021), which is shown in Table 8.3.2 below and compared with the average for 2019.

Table 8.3.2: Runway Usage

Period	Percentage of Movements	
	Runway 09	Runway 27
2019	31.8%	68.2%
Long-Term Average (2017-2021)	28.3%	71.7%

[1] https://pa.newham.gov.uk/online-applications/applicationDetails.do?activeTab=documents&keyVal=RJ9S21JY5VB00
[2] CAA. (2021) CAP2091, CAA Policy on Minimum Standards for Noise Modelling

Future Aircraft Types

Most of the aircraft types in the future forecast already operate at London City Airport and are therefore included in the ongoing noise contour validation. There are two exceptions, which are the Embraer E195-E2 and the Airbus A220-300. At the time of this assessment, these two aircraft types have not operated regularly and therefore measured noise levels from the Airport's NMTs are not available. The modelling for these types has therefore been based on a comparison of noise certification levels for these types with similar types that already operate at the Airport, specifically the Embraer E190-E2 and Airbus A220-100 respectively. Details of this comparison are given in Table 8.3.3.

Table 8.3.3: Comparison of Certification Noise Levels

Aircraft Type	Certification Noise Levels, EPNdB[3]		
	Lateral	Flyover	Approach
Embraer E190-E2	86.1	76.8	91.4
Embraer E195-E2	86.4	78.3	91.7
Difference[4]	**0.2**	**1.5**	**0.3**
Airbus A220-100	87.7	78.8	91.5
Airbus A220-300	87.0	81.6	92.3
Difference[4]	**-0.6**	**2.8**	**0.8**

The differences shown in the table above were applied to the measured noise levels for the corresponding regularly operating aircraft type, to obtain estimated noise levels for the types yet to operate at each NMT. The Lateral differences were applied to departure noise levels at NMTs 1-4, the Flyover differences were applied to departure noise levels at NMTs 5 & 6, and the Approach differences were applied to the arrival noise levels at all NMTs. The forecast future types were then validated based on these estimated noise levels using the standard approach set out in the methodology report. The resulting adjustments to the default AEDT noise levels are shown in Table 8.3.4 below.

Table 8.3.4: AEDT Modelled Noise Level Adjustments

Aircraft Type	Arrivals		Departures	
	AEDT Type	Adjustment, dB	AEDT Type	Adjustment, dB
Embraer E195-E2	EMB195	-1.1	EMB195	-4.1
Airbus A220-300	737500	-0.5	737500	-3.5

2019

Noise contours for 2019 were originally produced in 2020. These were produced using an older methodology in use at that time and using an older version of the AEDT software (version 2d).

The 2019 contours included here have been re-computed using the latest methodology, so that they can be directly compared with the future contours on a like for like basis. The revised methodology results in slight increases in the areas of the 2019 noise contours compared to those originally reported in 2020.

Air Noise Receptors

Residential Receptors

Population and dwelling data for the air noise assessment has been provided by CACI Ltd in the form of a 2022 postcode database. The CACI data cannot be reproduced here for licensing reasons.

[3] Based on an average of the certification noise levels for each aircraft type in the EASA Certification Noise Levels database at the time of the assessment.
[4] The differences may not match due to rounding, the actual unrounded differences have been used in the modelling.

In addition, the air noise assessment has considered permitted developments with the ZoI. These are residential developments with planning permission, which have not yet been built or are only partially built. Data has been provided by Quod. In some instances, developments are partially built, and where this is the case the permitted development data has been compared with the CACI 2022 data to avoid double counting. Details of the resulting permitted developments assessed are given in Table 8.3.5 below. Where appropriate, permitted developments with a large number of proposed dwellings have been modelled using several assessment points based on available information. The assessed permitted development locations are shown on Figure 8.3.2. It has been assumed that on average 2.7 people live in each permitted dwelling, based on the CACI data for existing dwellings in the area.

Table 8.3.5: Air Noise - Permitted Developments

Scheme Name	Modelled Dwellings	Scheme Name	Modelled Dwellings
1 Park Place	624	Islay Wharf	133
116-118 Chrisp Street	53	Land Under the Dir	181
15 - 27 Byng Street	178	Leamouth Peninsula North	645
160-166 Chrisp Street	273	Legacy Wharf Phase 2	196
2 Trafalgar Way	68	Legacy Wharf Phase 3	411
30 Marsh Wall	1068	Leven Wharf	160
50 Marsh Wall	634	Lydenburg Commercial Estate	1212
54 Marsh Wall	216	Lyle Park West	252
56 - 58 Marsh Wall	795	Manor Road	449
767 - 785 Commercial Road	9	Meridian Gate	327
82 West India Dock Road	66	Mile End East Estate	142
Aberfeldy Estate	511	Millennium Village	1184
Albert Island	16	Morden Wharf	1500
Alisa Wharf	952	Mulberry Place Town Hall	169
Arrowhead Quay	346	North Quay	1152
Barking Road	752	O2 2015 Masterplan	12678
Blackwall Reach	1194	Orchard Place	446
Blackwall Yard	898	Orchard Wharf	826
Bow Common Gas Works	235	Plot N0201	262
Bradfield Road	55	Plots M0104 &M0102	287
Bromley by Bow North	522	Plots N0205 N0206 & N0207	552
Bromley Mills Wharf	307	Poplar Business Park	392
Brunel Street Works	568	Poplar Gas Works	2800
Carlsberg Tetley Dock Road	460	Pudding Mill Lane	948
Castle Wharf	338	Royal Albert Basin	346
Chrisp Street Market	643	Royal Albert Docks	845
Cuba Street	428	Royal Docks Service Station	294
Deanston Wharf	769	Royal Foundation of St Katharine	114
Enderby Wharf	317	Royal Wharf	1946
Ensign House	500	Royal Wharf	116
Etap Accor	140	Silvertown Quays	3033
Eynsham Drive	272	Skylines Village	579
Felixstowe Road	245	South Quay Plaza	888
Flint Glass Wharf	500	South Quay Square	1500
Former Parcel Force Depot	1020	Southmere Village	250
Former Poplar Bus Depot	530	Store Road	163
Gallions 3B	238	Stroudley Walk	274
Gallions Quarter	631	Thames Road Industrial Estate	1610

Scheme Name	Modelled Dwellings	Scheme Name	Modelled Dwellings
Gallions View Nursing Home	333	Thamesmead	1286
Harbour Exchange Square	457	The Highway Business Park	264
Harrow Manor Way	329	Tripcock Point	11500
Hertsmere House	861	Unit 3 Thames Road	161
Iceland Wharf	120	Vulcan Wharf	457
Imperial Street	321	West End Car Park	854
Imperial 2	100	Wood Wharf	1533
Innovation Centre	390	Woolwich Reach	75

Non-Residential Receptors

Noise levels have been predicted at 12 representative locations. These are the same locations assessed in the 2015 UES. The locations are shown in Figure 8.3.1 and details are given in Table 8.3.6 below.

Table 8.3.6: Air Noise - Representative Locations

Location Reference	Location	Latitude	Longitude
1	Blackwall / A1261	51.508275	-0.000488
2	Britannia Village	51.504420	0.027860
3	Silvertown / A1020	51.502571	0.028474
4	Custom House	51.510472	0.036172
5	Camel Road	51.503318	0.044535
6	Royal Albert Dock (north)	51.507891	0.063914
7	North Woolwich (north)	51.500956	0.063056
8	Thamesmead	51.502368	0.094069
9	Eastern Quay Apts, Britannia Village	51.505782	0.027493
10	Coral Apts, Western Gateway	51.507734	0.020821
11	Silvertown Quays	51.504953	0.037735
12	Ramada Hotel	51.507594	0.038141

The air noise assessment has considered the air noise effects on schools within the ZoI. The definition of schools includes sixth form colleges and formal nurseries, but generally excludes informal settings such as informal day care. Data has been provided by Quod which identified 129 schools within the ZoI. Details of the schools that have been assessed are given in Table 8.3.7 below. The locations of the schools are shown in Figure 8.3.3.

Table 8.3.7: Air Noise - Schools

Name	Postcode	Latitude	Longitude
The Alphabet House Nursery School Baby Unit	E16 2FW	51.50167741	0.03645527
Little Limehouse	E14 7EY	51.51301444	-0.03128087
Bright Horizons East India Dock Day Nursery	E14 2ED	51.50864046	-0.0018406
Rising Stars Day Care	SE28 8PF	51.509024	0.12813669
Abrahams Care Kids Club	E16 1ET	51.51552723	0.01298936
Busy Bees Day Nursery at London Excel	E16 1XL	51.50813425	0.02867352
Pillar Box Montessori	E3 2AN	51.52771038	-0.02389941
Bright Horizons Canada Square Day Nursery and Preschool	E14 5NN	51.50406614	-0.01685381
Bright Horizons Bank Street Day Nursery And Preschool	E14 5NS	51.5024059	-0.0181219
Rising Stars Daycare	E16 3RU	51.51388972	0.03645269
Magic Years Nursery	E16 4HH	51.51926309	0.01538837

Name	Postcode	Latitude	Longitude
Lanterns Arts & Educational Nursery	E14 9XP	51.49925237	-0.01723583
Waterways Nursery and After School Club	SE28 8EZ	51.5016153	0.11364151
Bright Horizons Heron Quays Day Nursery & Preschool	E14 9AB	51.50198366	-0.02507089
Bright Horizons Columbus Courtyard Day Nursery and Preschool	E14 4DA	51.50592916	-0.02546217
Tamba Beckton	E6 6WG	51.51258178	0.06802906
Bright Horizons, Westferry Back Up Care Nursery And Preschool	E14 4HD	51.50633572	-0.02610745
Bow Nursery	E3 3EN	51.52812949	-0.01515888
Little St Matthias Pre School	E14 0AE	51.5089955	-0.01532819
Fabulous Tots Nursery	SE28 8BG	51.5038507	0.11684313
Millennium Minis Lakeside	SE10 0BA	51.49436614	0.01355414
Uncle Peter's Daddy Day Care	SE2 9BB	51.49764282	0.11450941
The Alphabet House Nursery Schools	E6 5NB	51.5109741	0.05922275
Pillar Box Gardens Nursery	E3 2QA	51.53004439	-0.02152031
Magic Roundabout Nurseries Ltd	E14 9YQ	51.50016767	-0.01022249
Clever Cloggs Day Nursery	E16 3NP	51.51240378	0.0261971
Cribs Day Nursery	E16 1PH	51.51531514	0.02321315
The Hub Nursery	E16 4PZ	51.51976127	0.01151852
Millennium Minis Riverside	SE10 0ST	51.49553291	0.01421071
The Alphabet House Nursery Schools	E16 2GR	51.50189733	0.03570141
Global Kids Day Care - Mile End Branch	E3 4TU	51.52407932	-0.03419109
Moksliukas	E16 1LN	51.51248391	0.01686165
Triangle Day Nursery	SE28 0AX	51.49417068	0.09804017
HeadStart Nursery	E14 3NG	51.49844841	-0.01065761
Poplar Play Centre Ltd	E14 0AE	51.5089955	-0.01532819
Matchbox Day Nursery	E14 7AB	51.51548225	-0.02829175
NurtureVille Nursery	E16 2LH	51.50088068	0.06350793
East India Dock Pre School	E14 9GB	51.50978973	-0.00173262
Tiny Town Daycare Ltd	E16 1TU	51.50414105	0.02401457
Little Me Day Nursery	E14 2BA	51.50974265	-0.00477546
Goldensparks Nursery	E16 1XE	51.51064913	0.0126877
Nest Royal Wharf	E16 2TF	51.4997062	0.02721809
Rise N Shine Nursery	E14 9TS	51.4991952	-0.01280065
Puddle Jumpers Nursery	E14 8HH	51.51118986	-0.02973104
Docklands Village Nursery	E14 9AA	51.5064064	-0.00584359
New Birth Day Nursery	E16 2DE	51.5037787	0.04541093
NRSRY LIMITED	E3 5AT	51.52801583	-0.03513154
Little Jems	SE28 8EY	51.50882589	0.12169991
KidsLab Day Nursery and Preschool	E14 9TS	51.4991952	-0.01280065
Hatching Dragons Canada Water	SE16 5DZ	51.50632883	-0.03855823
Nurture House Montessori	SE28 8AS	51.50528992	0.11183738
Acola Kids	E14 9TS	51.4991952	-0.01280065
Ymca Thames Gateway Thamesmead Nursery	SE2 9AN	51.50102977	0.12414737
Garden Nursery and Preschool	E16 2RD	51.50756675	0.06326254
Little Elms @ Peninsula	SE10 0GE	51.49596629	0.0130629
Faraday School	E14 0FH	51.50849302	0.008889
Jasper City School	E16 3LU	51.51472615	0.03696562
Learningsure College	E16 1QS	51.51653412	0.01614705

Name	Postcode	Latitude	Longitude
River House Montessori School	E14 9XP	51.49862701	-0.01801219
New Directions	E16 2LS	51.501224	0.0649499
South Quay College	E14 9UB	51.49949783	-0.02164845
Childrens House Nursery School	E3 3HL	51.52665363	-0.01616018
Edith Kerrison Nursery School	E16 3PB	51.51542415	0.02731126
Ben Jonson Primary School	E1 4PZ	51.52095537	-0.03774204
Bishop John Robinson Church of England Primary School	SE28 8LW	51.50897523	0.11791659
Britannia Village Primary School	E16 2AW	51.50353361	0.02586082
Bygrove Primary School	E14 6DN	51.51251468	-0.01815846
Calverton Primary School	E16 3ET	51.51104711	0.04167264
Castilion Primary School	SE28 8QA	51.51029758	0.1213791
Cayley Primary School	E14 7NG	51.5161547	-0.03836649
Culloden Primary - A Paradigm Academy	E14 0PT	51.51422477	-0.00498299
Cyril Jackson Primary School	E14 8HH	51.51118986	-0.02973104
De Lucy Primary School	SE2 9PD	51.49547559	0.11001485
Discovery Primary School	SE28 0JN	51.50028346	0.09464686
Drew Primary School	E16 2DP	51.50287718	0.04708521
Gallions Primary School	E6 6WG	51.51258178	0.06802906
Halley Primary School	E14 7SS	51.51770697	-0.03600795
Hallsville Primary School	E16 1LN	51.51248391	0.01686165
Hawksmoor School	SE28 8AS	51.50528992	0.11183738
Heronsgate Primary School	SE28 0EA	51.49405608	0.08277819
Jubilee Primary School	SE28 8JB	51.50481688	0.12160008
Keir Hardie Primary School	E16 1FZ	51.51647418	0.02067016
Lansbury Lawrence Primary School	E14 6DZ	51.51352241	-0.01925328
Linton Mead Primary School	SE28 8DT	51.50801582	0.11327489
Malmesbury Primary School	E3 2AB	51.52727513	-0.02956969
Manorfield Primary School	E14 6QD	51.51825895	-0.01323876
Marner Primary School	E3 3LL	51.52292904	-0.01234345
Mayflower Primary School	E14 6DU	51.51158841	-0.02028842
Millennium Primary School	SE10 0BG	51.49324524	0.01127177
Old Ford Primary - A Paradigm Academy	E3 5LD	51.53359301	-0.03094055
Old Palace Primary School	E3 3BT	51.52639185	-0.01238
Olga Primary School	E3 5DN	51.53072094	-0.03664425
Our Lady and St Joseph Catholic Primary School	E14 0DE	51.51014474	-0.01947195
Rosetta Primary School	E16 3PB	51.51542415	0.02731126
Royal Wharf Primary School	E16 2ZA	51.50058905	0.02712766
Scott Wilkie Primary School	E16 3HD	51.51205454	0.0375238
Sir William Burrough Primary School	E14 7PQ	51.51373044	-0.03375778
Solebay Primary - A Paradigm Academy	E1 4PW	51.52258362	-0.03885407
St Agnes RC Primary School	E3 3ER	51.5273432	-0.01865315
St Joachim's Catholic Primary School	E16 3DT	51.51174714	0.03088063
St Luke's Primary School	E16 1JB	51.51331947	0.01377111
St Margaret Clitherow Catholic Primary School	SE28 8GB	51.50096378	0.11336641
St Paul with St Luke CofE Primary School	E3 4LA	51.51796095	-0.02916479
St Saviour's Church of England Primary School	E14 6BB	51.51626317	-0.01646781
Stebon Primary School	E14 7AD	51.51679	-0.02584258
Stepney Greencoat Church of England Primary School	E14 7TF	51.51393975	-0.03175981

Name	Postcode	Latitude	Longitude
The Clara Grant Primary School	E3 4BU	51.5217852	-0.01968737
Wellington Primary School	E3 4NE	51.52591824	-0.0248132
Willow Bank Primary School	SE2 9XB	51.49737524	0.12533167
Windrush Primary School	SE28 8AR	51.50253269	0.11562926
Winsor Primary School	E6 5NA	51.5094606	0.06295903
Woolmore Primary School	E14 0EW	51.51068791	-0.00800554
Oasis Academy Silvertown	E16 2TX	51.50166296	0.06146841
Rokeby School	E16 4DD	51.51873868	0.0155526
Royal Docks Academy	E16 3HS	51.51099178	0.0350264
Woolwich Polytechnic school for Girls	SE28 8RF	51.50123668	0.10519471
Bow School	E3 3QW	51.5233929	-0.00946895
Central Foundation Girls' School	E3 2AE	51.52681304	-0.02829215
East London Arts & Music	E3 3TA	51.52458829	-0.00943121
Harris Garrard Academy	DA18 4DW	51.49637763	0.13322375
Langdon Park Community School	E14 0RZ	51.51478669	-0.01212162
London Design and Engineering UTC	E16 2RD	51.50756675	0.06326254
Mulberry UTC	E3 2RU	51.53394838	-0.02639765
St Paul's Way Trust School	E3 4FT	51.51864851	-0.02459461
Woolwich Polytechnic School	SE28 8AT	51.50320505	0.10875816
Beatrice Tate School	E3 4PX	51.52375521	-0.0304137
Ian Mikardo School	E3 3LF	51.52515327	-0.01305386
Stephen Hawking School	E14 7LL	51.5131852	-0.03771587
Phoenix School	E3 2AD	51.52709947	-0.02660741

The air noise assessment has considered the air noise effects on long term health care facilities within the ZoI. The definition of long term health care facilities includes facilities such as hospitals and nursing homes, but excludes short term facilities such as pharmacies, GP surgeries, etc. Data has been provided by Quod, which identified 4 long term healthcare facilities within the ZoI. Details of these facilities that have been assessed are given in Table 8.3.8 below. The locations of the long-term healthcare facilities are shown in Figure 8.3.3.

Table 8.3.8: Air Noise – Long-Term Healthcare Facilities

Name	Postcode	Latitude	Longitude
Mile End Hospital	E1 4DG	51.524994	-0.042185
The Tower Hamlets Centre For Mental Health	E1 4DG	51.524474	-0.042645
Richard House Children's Hospice	E16 3RG	51.510146	0.042726
Cygnet Hospital Beckton	E6 6ZB	51.513640	0.064900

The air noise assessment has considered the air noise effects on outdoor amenity areas within the ZoI. The definition of outdoor amenity areas includes official parks and playgrounds, but generally excludes areas not open to the public and areas of a minimal extent such as roadside verges. Data has been provided by Quod, which identified 287 outdoor amenity areas . Details of the outdoor amenity areas that have been assessed are given in Table 8.3.9 below. Names are provided where available, but in many cases the areas identified do not have names. The locations of the outdoor amenity areas are shown in Figure 8.3.3.

Table 8.3.9: Air Noise – Outdoor Amenity Areas

Name (where applicable)	Latitude	Longitude
	51.49961093	0.06787297
	51.50922926	-0.01722166
	51.51121214	0.05988861
	51.49865783	-0.0006449
	51.5079738	0.13262289

Name (where applicable)	Latitude	Longitude
	51.51012318	0.13511493
Arch 11	51.50195782	0.12029086
East London Gymnastics Centre	51.51359692	0.05611276
Mile End Park Leisure Centre	51.51904866	-0.03340854
Poplar Baths Leisure Centre	51.51081507	-0.01385906
Sportsdock	51.50771426	0.06815242
Thamesmead Leisure Centre and Library	51.50773815	0.10928955
The Lakeside Complex	51.50115844	0.12394577
The Link	51.49976265	0.12183645
	51.49584297	-0.00668505
	51.49439553	0.10850097
	51.49468401	0.1094875
	51.49713322	-0.0100946
	51.49977007	0.06474413
	51.4994613	0.12195746
	51.50104699	0.03554738
	51.5014269	0.02477
	51.50102117	0.05839177
	51.50170803	0.02491306
	51.50070077	0.11687949
	51.50076316	0.116832
	51.50082712	0.1167837
	51.50355471	0.02455565
	51.5032556	0.04402074
	51.50327021	0.04806567
	51.50326346	0.07309352
	51.50615448	-0.04024463
	51.50425869	0.12605152
	51.50431203	0.12585639
	51.50442275	0.12619161
	51.50447597	0.12599728
	51.50495443	0.11635669
	51.50490386	0.13079506
	51.50861517	-0.0183381
	51.50863829	-0.00111725
	51.50898259	-0.00810145
	51.50966205	-0.03188995
	51.50978419	0.01359212
	51.51029593	-0.01641284
	51.50991987	0.01972095
	51.50990484	0.13244907
	51.51256943	-0.0167853
	51.51214535	0.01456168
	51.51133094	0.06148514
	51.51282397	-0.01038071
	51.51358756	0.0205647
	51.51419352	-0.00625755
	51.51501803	-0.00451602

Name (where applicable)	Latitude	Longitude
	51.51513914	0.01231716
	51.51510364	0.02567293
	51.51675509	-0.03963896
	51.5156966	0.03143094
	51.51941905	0.00751494
	51.52029624	-0.03247111
	51.52218343	-0.02017515
	51.52512794	-0.02409567
	51.52551579	-0.01475495
	51.52564421	-0.01889628
	51.52805048	-0.02860524
	51.52945436	-0.02659154
	51.5318024	-0.02088842
	51.53246501	-0.03115246
	51.53249567	-0.02587128
Childrens Play Park	51.51660804	-0.03034747
Roman Road Adventure Playground	51.53303014	-0.03553107
	51.4928105	0.01878626
	51.49372555	0.08559728
	51.49603112	-0.00640635
	51.49408832	0.1085739
	51.49698871	-0.01023878
	51.49728237	0.01334707
	51.49917178	-0.02082871
	51.50007851	-0.02266533
	51.49781831	0.12810115
	51.49882806	0.08616295
	51.50049696	0.00884021
	51.49864724	0.12809007
	51.49987443	0.06537218
	51.50056983	0.03555976
	51.50032495	0.06843535
	51.50066742	0.05945658
	51.5015228	0.02438759
	51.50192627	0.05118983
	51.50218287	0.03703334
	51.50094749	0.11759463
	51.50299064	0.00613691
	51.50388849	-0.03456642
	51.50290979	0.04461077
	51.50438694	-0.03470272
	51.50327234	0.04407569
	51.5032019	0.04842564
	51.50274167	0.09234755
	51.50418113	0.02617062
	51.50404775	0.12573246
	51.50506681	0.11647318
	51.50534387	0.11240223

Name (where applicable)	Latitude	Longitude
	51.50541662	0.11463617
	51.50707885	0.0733027
	51.50861977	-0.00141596
	51.5067924	0.11424236
	51.50909243	-0.01157329
	51.50959771	-0.03112195
	51.50963797	-0.03235285
	51.50943344	-0.01854202
	51.50976786	-0.02821631
	51.50736284	0.12360279
	51.50999461	-0.02309061
	51.50992004	-0.01445177
	51.51021039	-0.020578
	51.51023963	-0.01677513
	51.50789211	0.11976025
	51.51068902	-0.03243664
	51.50923963	0.05615146
	51.51075887	-0.02963199
	51.50991987	0.01972095
	51.51081143	-0.02844999
	51.51057257	-0.00969972
	51.51023342	0.01786391
	51.51027996	0.03048592
	51.50982702	0.06044337
	51.51097264	0.01544421
	51.51082227	0.02637875
	51.51183202	-0.01869922
	51.51137636	0.01913286
	51.51113851	0.03937733
	51.51097291	0.06052704
	51.51104755	0.06523609
	51.51207698	0.01292706
	51.51212464	0.01568051
	51.5121786	0.01642191
	51.51148316	0.06046875
	51.51174683	0.0468364
	51.512834	-0.01011554
	51.51293184	-0.01249436
	51.51336051	-0.01095255
	51.51362191	-0.02429183
	51.51094037	0.13298323
	51.51312014	0.02060595
	51.51390654	-0.01955116
	51.51154783	0.12526493
	51.51314042	0.03810733
	51.51413546	-0.01874391
	51.51423052	-0.01502424
	51.51365519	0.02105683

Name (where applicable)	Latitude	Longitude
	51.51182756	0.12646704
	51.51458506	-0.03091071
	51.51381128	0.01771447
	51.51382472	0.0209301
	51.51434102	-0.00631045
	51.51435125	-0.00009431
	51.5140308	0.02178349
	51.51492176	-0.02635175
	51.51472	-0.0080934
	51.51422951	0.021199
	51.51444044	0.02058456
	51.51528646	-0.02805792
	51.51515031	-0.0186326
	51.51464673	0.01478385
	51.5154355	-0.01458152
	51.51494043	0.01622058
	51.51514228	0.01807551
	51.51586688	-0.01358537
	51.51555056	0.01230528
	51.51541221	0.02611692
	51.51670215	-0.03998378
	51.51600132	0.01758009
	51.51701249	-0.01843569
	51.51748858	-0.02803386
	51.51755549	-0.03150827
	51.51673663	0.01738861
	51.51751342	-0.02319516
	51.51774834	-0.02605455
	51.51779331	-0.0210733
	51.51865416	-0.02716394
	51.51799966	0.01699331
	51.5186965	-0.01396872
	51.51900953	-0.0279464
	51.51868366	0.01120734
	51.51889232	0.01110804
	51.51971419	-0.0200102
	51.51926908	0.0112398
	51.52021448	-0.0397041
	51.52004375	-0.0166277
	51.5201771	-0.02138713
	51.52073542	-0.04047978
	51.52057836	-0.03068342
	51.52065487	-0.03380519
	51.5202037	0.00669528
	51.52116476	-0.02314755
	51.52272925	-0.01398397
	51.52313658	-0.01611365
	51.52447595	-0.02916578

Name (where applicable)	Latitude	Longitude
	51.52425901	-0.01387455
	51.52493875	-0.02440599
	51.52527466	-0.02914947
	51.52530199	-0.01856544
	51.52582638	-0.01916836
	51.52644832	-0.01356206
	51.52875257	-0.02911215
	51.52877765	-0.02520499
	51.52909819	-0.02748246
	51.5290526	-0.01389614
	51.52950934	-0.01634272
	51.52985664	-0.0182269
	51.52985021	-0.01677163
	51.53084191	-0.02541298
	51.5322281	-0.02910523
	51.53351596	-0.02587896
	51.5351355	-0.02608693
	51.53606905	-0.03141014
Abbey Wood Park	51.49455222	0.10906491
Bromley Recreation Ground	51.52662434	-0.01341859
Canning Town Recreation Ground	51.51599991	0.02843426
	51.50334424	0.12344441
	51.50486981	0.12808641
	51.5118274	0.01565778
	51.52043897	-0.03516999
Queen Elizabeth Olympic Park	51.53647319	-0.01400278
Abbey Wood Park	51.49793376	0.11850682
Aberfeldy Millennium Green	51.51479434	-0.00562243
Ackroyd Drive Green Link	51.51871134	-0.02985624
Archibald Open Space	51.52504042	-0.02429458
Bartlett Park	51.51481563	-0.02196629
Beckton District Park	51.51205133	0.0484279
Belgrave Open Space	51.5159985	-0.04223912
Birchmere Park	51.50011501	0.11365635
Bow Green Ecology Park	51.51198294	0.0032586
Brickfield Gardens	51.51482202	-0.03097195
Brock Place Gardens	51.52049034	-0.01826004
Chiltern Green	51.52248626	-0.02031409
Church Green	51.5124557	-0.02044188
Cundy Road Open Space	51.51031172	0.03156414
Ecology Park	51.49426725	0.01559294
Fisher Street Open Space	51.51824578	0.01704664
Furze Green	51.51828691	-0.02128652
Gallions Reach Park	51.50292157	0.09142689
Grove Hall Park	51.52975365	-0.01787642
Joint Venture Garden	51.52835686	-0.02877962
Jolly's Green	51.51487428	-0.00947284
Jubilee Park	51.50332857	-0.01866646

Name (where applicable)	Latitude	Longitude
King George V Park	51.51313327	0.03957596
Langdon Park	51.51629503	-0.01343506
Lavender Pond Nature Park	51.50589921	-0.0376147
Lyle Park	51.50018837	0.02372783
Meath Gardens	51.52793365	-0.04356228
Mile End Millennium Park	51.52899058	-0.03986055
Mile End Park	51.51630979	-0.03013529
Mile End Park	51.52818728	-0.0387785
New Beckton Park	51.51078488	0.05878274
Poplar Recreation Ground	51.51013703	-0.01682228
Prospect Park	51.52315626	-0.01587127
Ropemakers Field	51.50980037	-0.03274008
Royal Victoria Gardens	51.49957673	0.06646718
Russia Dock Woodland	51.50104246	-0.03924022
Selwyn Green	51.53040657	-0.03289469
Shandy Park	51.52043187	-0.03989865
Southmere Park	51.49822154	0.13189023
Southwater Close	51.5139797	-0.03099525
St James's Gardens	51.5111483	-0.04090943
St John's Park	51.4970995	-0.01027578
Star Park	51.51949881	0.00744163
Stepney Church Yard	51.51661528	-0.04133184
Thames Barrier Park	51.50060989	0.03410513
Tower Hamlets Cemetery Park	51.52317511	-0.02724416
Tredegar Square Gardens	51.52712396	-0.03218811
Virginia Quay Park	51.50883029	-0.00124153
Whitehorse Open Space	51.51619433	-0.03982147
York Square Gardens	51.51362066	-0.03937401
	51.49482946	0.03950671
	51.51051802	-0.01165372
	51.51281263	-0.01019538
	51.51301984	0.03892327
	51.51388388	-0.0023815
	51.49733528	-0.01089837
	51.49945023	0.06617854
	51.50430445	0.12644644
	51.50966205	-0.03188995
	51.51073018	-0.0162606
	51.51184106	0.06019712
	51.51638035	0.02831539
	51.51640376	0.02784829
	51.51983165	-0.03520795

Aircraft Movements

The air noise contours have been produced based on forecasts provided by York Aviation LLP. These forecasts include an allowance for the typical differences between scheduled and runway time. For comparison with earlier forecasts it should be noted that the Airbus A220-100 was previously known as the Bombardier CS100, and the Airbus A220-300 was previously known as the Bombardier CS300.

Summer

Most of the noise contours are based on activity in the 92-day summer period (16th June to 15th September inclusive). Table 8.3.10 to Table 8.3.12 below provide a summary of the summer period daytime, night-time, and weekend movements by aircraft type. The movements treated as in the daytime are based on the airport's operational period (06:30-22:30), they therefore also include the night-time movements (06:30-06:59).

Table 8.3.10: Summer Daytime Aircraft Movements

Aircraft Type	2019 Actual	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Dornier 328Jet	196	280	280	280	280	280	280
ATR-42	286	700	700	700	700	700	700
ATR-72	3,066	560	560	560	560	560	560
Bombardier Dash8-Q400	2,232	980	1,006	980	1,033	980	1,033
Embraer E170	11,919	0	0	0	0	0	0
Embraer E190	286	14,588	13,510	14,308	4,816	6,216	4,396
Embraer E190-E2	0	840	3,012	1,539	11,547	9,196	13,377
Embraer E195-E2	0	0	0	560	3,713	2,495	6,192
Airbus A220-100	543	840	866	840	893	1,260	1,786
Airbus A220-300	0	0	0	0	0	0	0
Other	2,690	1,247	1,247	1,746	1,247	2,244	0
Total	**20,932**	**20,034**	**21,180**	**21,512**	**24,788**	**23,929**	**28,323**

Table 8.3.11: Summer Night-time Aircraft Movements

Aircraft Type	2019 Actual	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Dornier 328Jet	0	0	0	0	0	0	0
ATR-42	0	0	0	0	0	0	0
ATR-72	0	0	0	0	0	0	0
Bombardier Dash8-Q400	35	0	0	0	0	0	0
Embraer E170	80	0	0	0	0	0	0
Embraer E190	192	379	433	379	42	374	0
Embraer E190-E2	0	0	72	0	391	67	436
Embraer E195-E2	0	0	0	0	156	5	267
Airbus A220-100	0	0	0	0	0	0	0
Airbus A220-300	0	0	0	0	0	0	0
Other	54	0	0	0	0	0	0
Total	**361**	**379**	**505**	**379**	**590**	**446**	**703**

Table 8.3.12: Summer Weekend Daytime Aircraft Movements

Aircraft Type	2019 Actual	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Dornier 328Jet	18	39	39	39	39	39	39
ATR-42	0	98	98	98	98	98	98
ATR-72	28	79	79	79	79	79	79
Bombardier Dash8-Q400	498	138	164	138	191	138	191
Embraer E170	364	0	0	0	0	0	0
Embraer E190	1,692	2,051	1,899	2,011	677	874	618
Embraer E190-E2	0	118	556	216	2,201	1,293	2,538
Embraer E195-E2	0	0	0	79	727	351	1,231
Airbus A220-100	52	118	145	118	171	177	342
Airbus A220-300	0	0	0	0	0	0	0
Other	416	130	130	204	130	272	0
Total	**3,068**	**2,771**	**3,111**	**2,982**	**4,589**	**3,321**	**5,136**

Annual

L_{den} and L_{night} contours have also been produced based on expected annual aircraft movements. A summary of the daytime, evening, and night-time annual movements in given in Table 8.3.13 below.

Table 8.3.13: Summary of Annual Aircraft Movements

Aircraft Type	2019 Actual	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Daytime	66,254	64,628	67,802	69,832	79,224	76,844	89,156
Evening	16,294	12,387	13,220	13,183	15,466	15,408	19,089
Night-time	1,415	1,485	1,978	1,485	2,311	1,748	2,755
Total	**83,963**	**78,500**	**83,000**	**84,500**	**97,000**	**94,000**	**111,000**

Sensitivity Scenarios

The air noise assessment also considered sensitivity scenarios. The movements for these scenarios are presented in Table 8.3.14 to Table 8.3.16 below and compared with those for the 2031 DC Scenario.

Daytime

Table 8.3.14: Summer Daytime Aircraft Movements

Aircraft Type	2031 DC	2029 Faster Growth	2033 Slower Growth
Dornier 328Jet	280	280	280
ATR-42	700	700	700
ATR-72	560	560	560
Bombardier Dash8-Q400	1,033	1,033	1,033
Embraer E170	0	0	0
Embraer E190	4,396	4,396	3,976
Embraer E190-E2	13,377	13,657	13,823
Embraer E195-E2	6,192	6,332	6,165
Airbus A220-100	1,786	1,366	1,786
Airbus A220-300	0	0	0
Other	0	0	0
Total	**28,323**	**28,323**	**28,323**

Night-time

Table 8.3.15: Summer Night-time Aircraft Movements

Aircraft Type	2031 DC	2029 Faster Growth	2033 Slower Growth	2031 Proposed Limit
Dornier 328Jet	0	0	0	0
ATR-42	0	0	0	0
ATR-72	0	0	0	0
Bombardier Dash8-Q400	0	0	0	0
Embraer E170	0	0	0	0
Embraer E190	0	0	0	0
Embraer E190-E2	436	436	436	476
Embraer E195-E2	267	267	267	234
Airbus A220-100	0	0	0	0
Airbus A220-300	0	0	0	0
Other	0	0	0	0
Total	**703**	**703**	**703**	**710**

Weekend

Table 8.3.16: Summer Weekend Aircraft Movements

Aircraft Type	2031 DC	2029 Faster Growth	2033 Slower Growth	2031 Alternative Fleet Mix
Dornier 328Jet	39	39	39	39
ATR-42	98	98	98	98
ATR-72	79	79	79	79
Bombardier Dash8-Q400	191	191	191	191
Embraer E170	0	0	0	0
Embraer E190	618	618	559	618
Embraer E190-E2	2,538	2,577	2,623	2,030
Embraer E195-E2	1,231	1,251	1,205	1,231
Airbus A220-100	342	283	342	342
Airbus A220-300	0	0	0	508
Other	0	0	0	0
Total	**5,136**	**5,136**	**5,136**	**5,136**

Air Noise Detailed Results

The sections below present the detailed results of the air noise assessment. Results are presented for the primary and then supplementary indicators.

Primary Indicators

This section presents the results for the primary indicators, specifically the average mode summer day, summer night and summer weekend day noise contours. The areas of the noise contours are presented along with the number of people and dwellings within them excluding and including permitted developments. For 2019 only the dwelling and population counts excluding permitted developments are presented, as the permitted developments were not built in 2019. The number of non-residential noise sensitive receptors exposed to noise levels above their respective noise thresholds is also presented.

Daytime

Table 8.3.17: Air Noise Contour Areas, $L_{Aeq,16h}$ Average Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	26.7	26.7	26.3	27.0	20.9	21.4	22.7
54	15.6	15.5	15.3	15.7	12.0	12.3	13.1
57	8.7	8.6	8.5	8.8	6.5	6.7	7.2
60	4.5	4.5	4.4	4.6	3.4	3.5	3.7
63	2.3	2.3	2.2	2.3	1.7	1.8	1.9
66	1.2	1.2	1.1	1.2	0.9	0.9	1.0
69	0.6	0.6	0.6	0.7	0.5	0.5	0.6

Table 8.3.18: Air Noise Population Counts, $L_{Aeq,16h}$ Average Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	205,300	202,950	200,450	204,400	147,150	154,900	160,000
54	117,200	113,800	110,950	115,050	78,950	81,450	85,900
57	51,500	50,450	49,050	51,000	33,150	34,950	37,550
60	20,550	19,400	19,300	19,950	13,200	14,050	15,650
63	5,750	5,250	5,050	5,750	2,100	2,300	2,550
66	950	950	750	950	750	750	750
69	0	0	0	0	0	0	0

Table 8.3.19: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Average Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	79,850	78,950	78,000	79,450	56,850	59,500	61,400
54	46,050	44,800	43,850	45,350	32,150	33,100	34,650
57	21,350	20,950	20,300	21,150	13,150	13,850	14,800
60	8,300	7,900	7,850	8,100	5,300	5,700	6,350
63	2,150	1,900	1,800	2,150	650	700	800
66	280	280	240	280	240	240	240
69	0	0	0	0	0	0	0

Table 8.3.20: Air Noise Population Counts, $L_{Aeq,16h}$ Average Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	361,400	355,150	362,850	284,750	295,300	302,250
54	-	228,150	224,550	229,900	156,450	160,850	171,850
57	-	108,950	106,550	111,100	71,800	75,450	81,050
60	-	40,900	39,550	42,950	26,300	30,050	32,200
63	-	13,600	12,650	14,150	7,350	7,600	8,600
66	-	3,200	3,000	3,200	750	1,500	1,500
69	-	0	0	0	0	0	0

Table 8.3.21: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Average Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	136,650	134,300	137,150	106,850	110,550	113,150
54	-	86,250	85,000	86,950	59,900	61,600	65,550
57	-	42,050	41,350	42,500	27,450	28,800	30,900
60	-	15,850	15,350	16,600	10,150	11,600	12,450
63	-	5,000	4,600	5,250	2,600	2,700	3,050
66	-	1,100	1,050	1,100	240	500	500
69	-	0	0	0	0	0	0

Table 8.3.22: Air Noise Non-Residential Counts, $L_{Aeq,16h}$ Average Mode Summer Day

Receptor	Number of Non-Residential Receptors						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Schools ≥ 52 dB $L_{Aeq,16h}$	87	86	83	86	60	62	64
Healthcare≥ 52 dB $L_{Aeq,16h}$	1	1	1	1	1	1	1
Amenity Areas ≥ 55 dB $L_{Aeq,16h}$	103	102	101	106	58	60	66

Night-time

Table 8.3.23: Air Noise Contour Areas, $L_{Aeq,8h}$ Average Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	4.5	7.8	10.6	7.8	7.1	7.1	7.3
48	2.3	4.0	5.6	4.0	3.8	3.7	4.0
51	1.2	2.0	2.9	2.0	2.0	1.9	2.1
55	0.5	0.9	1.2	0.9	0.8	0.8	0.9
57	0.4	0.6	0.8	0.6	0.6	0.6	0.6
60	0.2	0.4	0.5	0.4	0.4	0.3	0.4
63	4.5	7.8	10.6	7.8	7.1	7.1	7.3

Table 8.3.24: Air Noise Population Counts, $L_{Aeq,8h}$ Average Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	19,300	21,150	36,400	21,150	24,700	25,750	26,500
48	5,150	7,350	15,900	7,350	6,000	8,450	8,000
51	800	1,000	2,300	1,000	1,700	1,300	1,800
55	0	0	0	0	0	0	70
57	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0

Table 8.3.25: Air Noise Dwelling Counts, $L_{Aeq,8h}$ Average Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	7,700	8,400	14,550	8,400	9,950	10,150	10,600
48	1,850	2,800	6,500	2,800	2,100	3,250	3,000
51	250	350	750	350	500	440	550
55	0	0	0	0	0	0	20
57	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0

Table 8.3.26: Air Noise Population Counts, $L_{Aeq,8h}$ Average Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	46,250	78,600	46,250	50,300	56,200	55,200
48	-	15,200	30,850	15,200	16,400	17,150	20,050
51	-	3,250	7,600	3,250	4,700	5,050	5,500
55	-	0	0	0	0	0	70
57	-	0	0	0	0	0	0
60	-	0	0	0	0	0	0
63	-	0	0	0	0	0	0

Table 8.3.27: Air Noise Dwelling Counts, $L_{Aeq,8h}$ Average Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	17,650	30,150	17,650	19,400	21,400	21,250
48	-	5,700	12,050	5,700	5,950	6,500	7,450
51	-	1,200	2,700	1,200	1,600	1,800	1,900
55	-	0	0	0	0	0	20
57	-	0	0	0	0	0	0
60	-	0	0	0	0	0	0
63	-	0	0	0	0	0	0

Table 8.3.28: Air Noise Non-Residential Counts, Average Mode Summer Night

Receptor	Number of Non-Residential Receptors						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Healthcare≥ 50 dB $L_{Aeq,1h}$	1	1	1	1	1	1	1

Weekend

Table 8.3.29: Air Noise Contour Areas, $L_{Aeq,16h}$ Average Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	15.2	15.0	15.1	15.2	13.5	11.9	15.1
54	8.5	8.3	8.4	8.5	7.4	6.5	8.4
57	4.4	4.3	4.4	4.4	3.8	3.3	4.4
60	2.2	2.2	2.2	2.2	2.0	1.7	2.3
63	1.1	1.1	1.1	1.1	1.0	0.9	1.2
66	0.6	0.6	0.6	0.6	0.6	0.5	0.6
69	0.4	0.4	0.4	0.4	0.4	0.3	0.4

Table 8.3.30: Air Noise Population Counts, $L_{Aeq,16h}$ Average Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	108,600	110,050	110,000	111,250	88,000	78,750	99,850
54	48,350	47,800	48,450	48,800	38,850	32,700	47,750
57	18,050	18,600	18,650	19,200	16,400	13,500	19,650
60	5,200	4,900	4,950	5,050	2,750	2,200	4,750
63	750	750	750	750	750	750	1,150
66	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0

Table 8.3.31: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Average Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	43,050	43,500	43,500	43,900	35,400	32,000	39,750
54	20,000	19,850	20,100	20,250	15,450	13,000	19,500
57	7,350	7,600	7,600	7,800	6,650	5,450	8,050
60	1,850	1,750	1,750	1,800	900	700	1,650
63	240	240	240	240	240	240	360
66	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0

Table 8.3.32: Air Noise Population Counts, $L_{Aeq,16h}$ Average Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	223,200	222,350	224,850	178,500	156,750	199,950
54	-	103,500	103,650	106,300	83,100	69,500	100,750
57	-	37,900	38,850	39,450	33,250	25,800	40,950
60	-	12,450	12,500	12,650	8,800	7,400	12,250
63	-	3,000	3,000	3,000	1,500	750	3,400
66	-	0	0	0	0	0	0
69	-	0	0	0	0	0	0

Table 8.3.33: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Average Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	84,500	84,200	85,050	68,000	60,000	75,900
54	-	40,200	40,250	41,250	31,800	26,600	38,850
57	-	14,750	15,100	15,300	12,850	10,000	15,900
60	-	4,550	4,550	4,600	3,100	2,600	4,450
63	-	1,050	1,050	1,050	500	240	1,200
66	-	0	0	0	0	0	0
69	-	0	0	0	0	0	0

Table 8.3.34: Air Noise Non-Residential Counts, $L_{Aeq,16h}$ Average Mode Summer Weekend Day

Receptor	Number of Non-Residential Receptors						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Healthcare≥ 52 dB $L_{Aeq,16h}$	1	1	1	1	1	1	1
Amenity Areas ≥ 55 dB $L_{Aeq,16h}$	31	31	31	31	28	18	30

Supplementary Indicators

This section presents the results for the supplementary indicators, specifically those listed below

- Annual L_{den} and L_{night}
- Annoyance and Sleep Disturbance
- N65 and L_{Amax}
- Single Mode Contours
- Variation in Noise Level Over the Day

Annual L_{den} and L_{night}

This section presents the areas of the annual L_{den} and L_{night} noise contours along with the number of people and dwellings within them excluding and including permitted developments. For 2019 only dwelling and population counts excluding permitted developments are presented, as the permitted developments were not built in 2019.

L_{den}

Table 8.3.35: Air Noise Contour Areas, Annual L_{den} Average Mode

Contour, dB L_{den}	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
50	32.8	30.3	31.1	25.7	25.3	30.6	27.3
55	13.4	12.4	12.8	10.3	10.1	12.5	11.0
60	4.8	4.4	4.5	3.5	3.4	4.4	3.8
65	1.5	1.4	1.5	1.2	1.1	1.4	1.2
70	0.6	0.5	0.5	0.5	0.4	0.5	0.5
75	0.3	0.2	0.2	0.2	0.2	0.2	0.2

Table 8.3.36: Air Noise Population Counts, Annual L_{den} Average Mode

Contour, dB L_{den}	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
50	233,550	223,250	227,000	224,500	184,350	190,800	196,450
55	93,500	86,400	88,950	86,800	63,150	66,050	70,500
60	20,300	18,600	19,550	18,950	14,050	15,000	16,400
65	1,650	1,650	1,650	1,650	900	900	1,150
70	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0

Table 8.3.37: Air Noise Dwelling Counts, Annual L_{den} Average Mode

Contour, dB L_{den}	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
50	91,600	87,250	88,900	87,750	71,000	73,900	75,850
55	37,450	34,800	35,750	34,950	25,800	26,900	28,600
60	8,200	7,550	7,900	7,700	5,650	6,000	6,600
65	550	550	550	550	280	280	360
70	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0

Table 8.3.38: Air Noise Population Counts, Annual L_{den} Average Mode

Contour, dB L_{den}	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
50	-	392,400	396,950	393,600	331,400	338,200	345,550
55	-	176,700	183,050	177,050	128,650	134,850	141,650
60	-	40,100	41,950	41,200	28,300	31,050	33,400
65	-	5,350	6,100	5,350	3,100	3,100	3,400
70	-	0	0	0	0	0	0
75	-	0	0	0	0	0	0

Table 8.3.39: Air Noise Dwelling Counts, Annual L_{den} Average Mode

Contour, dB L_{den}	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
50	-	148,900	150,850	149,400	124,500	127,500	130,050
55	-	67,300	69,650	67,450	49,150	51,450	54,050
60	-	15,500	16,200	15,900	10,950	11,950	12,900
65	-	1,900	2,200	1,900	1,100	1,100	1,200
70	-	0	0	0	0	0	0
75	-	0	0	0	0	0	0

L_{night}

Table 8.3.40: Air Noise Contour Areas, Annual L_{night} Average Mode

Contour, dB L_{night}	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	4.8	4.9	6.9	4.9	4.9	5.4	5.3
50	1.5	1.6	2.3	1.6	1.6	1.8	1.8
55	0.6	0.6	0.8	0.6	0.6	0.6	0.6
60	0.2	0.2	0.3	0.2	0.3	0.3	0.3
65	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Table 8.3.41: Air Noise Population Counts, Annual L_{night} Average Mode

Contour, dB L_{night}	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	20,850	20,650	35,950	20,650	24,500	25,000	26,400
50	1,700	1,600	5,100	1,600	1,950	2,050	2,500
55	0	0	0	0	0	0	70
60	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0

Table 8.3.42: Air Noise Dwelling Counts, Annual L_{night} Average Mode

Contour, dB L_{night}	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	8,300	8,200	14,400	8,200	9,850	9,850	10,600
50	550	500	1,850	500	600	650	750
55	0	0	0	0	0	0	20
60	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0

Table 8.3.43: Air Noise Population Counts, Annual L_{night} Average Mode

Contour, dB L_{night}	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	45,500	78,000	45,500	50,100	54,800	54,050
50	-	6,150	12,800	6,150	7,150	6,600	9,200
55	-	0	0	0	0	0	70
60	-	0	0	0	0	0	0
65	-	0	0	0	0	0	0
70	-	0	0	0	0	0	0

Table 8.3.44: Air Noise Dwelling Counts, Annual L_{night} Average Mode

Contour, dB L_{night}	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	17,400	29,950	17,400	19,350	20,900	20,800
50	-	2,200	4,700	2,200	2,500	2,350	3,250
55	-	0	0	0	0	0	20
60	-	0	0	0	0	0	0
65	-	0	0	0	0	0	0
70	-	0	0	0	0	0	0

Annoyance and Sleep Disturbance

Annoyance

The number of people likely to be highly annoyed by air noise from London City Airport has been calculated based on the dose response provided in Table 31 of SoNA 2014. This does not take account of any improved insulation for dwellings which have benefitted from the noise insulation grant scheme.

The percentage of people highly annoyed for each contour band is given in the table below. The resulting number of people highly annoyed including and excluding permitted developments is then presented. For 2019 only population excluding permitted developments is presented, as the permitted developments were not built in 2019.

Table 8.3.45: Percentage of Population Highly Annoyed, Average Mode Summer Day

Noise Contour Band, dB $L_{Aeq,16h}$	Percentage of Population Highly Annoyed
51-53.9	8.0%
54-56.9	11.0%
57-59.9	15.0%
60-62.9	20.0%
63-65.9	27.0%
66-68.9	35.0%

Table 8.3.46: Highly Annoyed Population Count, $L_{Aeq,16h}$ Average Mode Summer Day

	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Population Highly Annoyed excluding Permitted Developments	23,500	23,100	22,700	23,300	16,350	17,150	17,900
Population Highly Annoyed including Permitted Developments	-	43,350	42,500	43,750	32,250	33,600	34,900

Sleep Disturbance

The number of people likely to be highly sleep disturbed by air noise from London City Airport has been calculated based on the dose response equation in the 2018 WHO Environmental Noise Guidelines for the European Region. This does not take account of any improved insulation for dwellings which have benefitted from the noise insulation grant scheme.

The percentage of people highly sleep disturbed for each 1 dB band is given in Table 8.3.47 below. The resulting number of people highly sleep disturbed including and excluding permitted developments is then presented. For 2019 only population excluding permitted developments is presented, as the permitted developments were not built in 2019.

Table 8.3.47: Percentage of Population Highly Annoyed, Average Mode Annual Night

Noise Contour Band, dB L_{night}	Percentage of Population Highly Sleep Disturbed
40-40.9	11.6%
41-41.9	12.3%
42-42.9	13.1%
43-43.9	13.8%
44-44.9	14.6%
45-45.9	15.5%
46-46.9	16.4%
47-47.9	17.3%
48-48.9	18.3%
49-49.9	19.3%
50-50.9	20.4%
51-51.9	21.4%
52-52.9	22.6%
53-53.9	23.7%
54-54.9	25.0%
55-55.9	26.2%

Table 8.3.48: Highly Sleep Disturbed Population Count, L_{night} Average Mode Annual Night

	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
Population Highly Sleep Disturbed excluding Permitted Developments	12,400	12,100	18,600	12,100	12,700	13,450	13,250
Population Highly Sleep Disturbed including Permitted Developments	-	25,350	37,350	25,350	25,900	27,700	26,850

N65 and L_{Amax}

This section presents the areas of the summer N65 daytime and weekend contours along with the number of people and dwellings within them excluding and including permitted developments. The areas exposed to a maximum noise level of 80 dB L_{ASmax} or above at least once per summer night on average are also presented along with the numbers of people and dwellings with these areas.

For 2019 only the dwelling and population counts excluding permitted developments are presented, as the permitted developments were not built in 2019. The 10 and for some scenarios the 25 and 50 event N65 noise contours extend beyond the ZoI and therefore beyond the air noise study area. The available data for the permitted developments does not fully cover the area of these contours. Dwelling and population counts including permitted developments are provided for these contours based on the data available. The CACI dwelling and population data for the counts excluding the permitted developments does cover the full area of all noise contours.

The summer N65 daytime contours have been prepared at values of 10, 25, 50, 100 and 200 events. There were not as many as 200 events (flights) per summer weekend day in any of the assessed weekend scenarios. Therefore, N65 weekend contours have been prepared at values of 10, 25, 50 and 100 events.

Contours have been prepared showing the areas exposed to a maximum noise level of 80 dB L_{ASmax} or above at least once per summer night on average. N60 contours are generally prepared at a minimum contour level of 10 events. There are not as many as 10 events (flights) per summer night in any of the assessed scenarios. Therefore, N60 night-time noise contours have not been presented.

Daytime N65

Table 8.3.49: Air Noise Contour Areas, N65 Average Mode Summer Day

N65 Contour, Events	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	106.7	106.8	105.7	106.5	71.4	83.3	69.3
25	66.4	69.9	62.6	67.0	44.0	46.4	45.3
50	64.6	31.9	30.9	31.8	21.8	22.0	22.5
100	12.4	11.6	12.4	12.8	12.9	12.3	16.7
200	1.1	0.9	1.0	1.2	1.5	1.4	1.8

Table 8.3.50: Air Noise Population Counts, N65 Average Mode Summer Day

N65 Contour, Events	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	802,800	803,250	796,800	799,250	577,600	660,200	557,100
25	552,450	573,550	515,200	558,650	334,000	362,300	344,600
50	276,200	266,050	254,900	265,150	171,300	172,950	177,450
100	78,050	73,600	79,000	80,300	81,250	77,700	120,100
200	1,700	600	1,700	3,450	7,100	5,700	8,150

Table 8.3.51: Air Noise Dwelling Counts, N65 Average Mode Summer Day

N65 Contour, Events	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	323,100	323,550	320,850	321,800	233,050	266,900	225,500
25	221,300	231,000	206,800	224,900	134,300	146,100	138,750
50	110,450	106,600	102,500	106,250	66,850	67,500	69,300
100	31,450	29,850	31,900	32,350	32,850	31,300	47,100
200	500	170	550	1,100	2,550	2,000	2,850

Table 8.3.52: Air Noise Population Counts, N65 Average Mode Summer Day

N65 Contour, Events	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	-	999,550[5]	993,100	995,550[5]	770,200[5]	853,650[5]	749,700[5]
25	-	764,950[5]	706,900[5]	750,350[5]	487,800[5]	534,300[5]	498,450[5]
50	-	451,850[5]	439,600	451,100[5]	306,250	307,900	317,050
100	-	144,350	153,350	156,600	158,550	150,400	233,050
200	-	1,350	3,200	4,950	9,100	7,200	10,900

[5] Permitted development data not available for part of the area of this contour.

Table 8.3.53: Air Noise Dwelling Counts, N65 Average Mode Summer Day

N65 Contour, Events	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	-	394,550[5]	391,850[5]	392,800[5]	302,700[5]	336,850[5]	295,100[5]
25	-	300,200[5]	276,150[5]	294,200[5]	190,300[5]	208,150[5]	194,750[5]
50	-	173,700[5]	169,200	173,450[5]	115,850	116,550	120,000
100	-	55,150	58,500	59,700	60,550	57,350	88,050
200	-	450	1,100	1,650	3,250	2,550	3,900

Weekend N65

Table 8.3.54: Air Noise Contour Areas, N65 Average Mode Summer Weekend Day

N65 Contour, Events	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	87.3	84.9	81.4	84.6	48.6	52.5	50.0
25	28.6	31.5	30.2	31.3	22.7	21.8	33.2
50	12.1	9.5	12.6	12.0	17.1	11.7	18.7
100	1.1	0.6	1.2	1.0	2.3	1.3	2.7

Table 8.3.55: Air Noise Population Counts, N65 Average Mode Summer Weekend Day

N65 Contour, Events	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	685,150	675,900	639,250	670,050	377,650	420,850	383,150
25	227,550	264,000	246,050	262,050	179,700	171,100	264,700
50	73,900	59,400	79,750	75,700	125,800	72,950	144,750
100	1,550	120	3,450	1,200	9,350	4,100	10,900

Table 8.3.56: Air Noise Dwelling Counts, N65 Average Mode Summer Weekend Day

N65 Contour, Events	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	276,200	272,950	257,650	270,600	152,050	170,800	154,100
25	91,050	105,650	98,550	104,950	70,000	66,850	105,250
50	29,900	24,000	32,200	30,550	49,150	29,350	56,200
100	450	20	1,100	400	3,300	1,400	4,000

Table 8.3.57: Air Noise Population Counts, N65 Average Mode Summer Weekend Day

N65 Contour, Events	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	-	870,550[5]	832,700[5]	863,800[5]	542,300[5]	609,600[5]	541,200[5]
25	-	448,950[5]	429,800[5]	447,000[5]	318,850	305,250	408,750[5]
50	-	116,300	154,550	147,750	239,500	143,600	263,550
100	-	120	4,950	1,950	15,550	5,100	18,800

Table 8.3.58: Air Noise Dwelling Counts, N65 Average Mode Summer Weekend Day

N65 Contour, Events	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
10	-	343,350[5]	327,600[5]	340,700[5]	211,650[5]	239,000[5]	211,650[5]
25	-	172,500[5]	164,900[5]	171,750[5]	120,550	115,550	157,600[5]
50	-	44,200	59,000	56,350	90,350	54,650	99,300
100	-	20	1,650	700	5,600	1,750	6,900

Night-time L_{ASmax}

Table 8.3.59: Air Noise Contour Areas, Exposed to 80 dB L_{ASmax} Once per Summer Night on Average

80 dB L_{ASmax} Once per Night	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
	2.4	2.5	3.5	2.5	1.9	2.6	2.1

Table 8.3.60: Air Noise Population Counts, Exposed to 80 dB L_{ASmax} Once per Summer Night on Average

80 dB L_{ASmax} Once per Night	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
	5,100	6,250	14,050	6,250	2,400	6,350	4,350

Table 8.3.61: Air Noise Dwelling Counts, Exposed to 80 dB L_{ASmax} Once per Summer Night on Average

80 dB L_{ASmax} Once per Night	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
	1,900	2,400	5,850	2,400	750	2,450	1,500

Table 8.3.62: Air Noise Population Counts, Exposed to 80 dB L_{ASmax} Once per Summer Night on Average

80 dB L_{ASmax} Once per Night	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
	-	11,050	28,650	11,050	9,100	12,650	11,700

Table 8.3.63: Air Noise Dwelling Counts, Exposed to 80 dB L_{ASmax} Once per Summer Night on Average

80 dB L_{ASmax} Once per Night	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
	-	4,200	11,250	4,200	3,200	4,750	4,200

Single Mode Contours

This section presents the summer day, summer night and summer weekend noise contours based on either 100% westerly or 100% easterly operations. The areas of the noise contours are presented along with the number of people and dwellings within them excluding and including permitted developments. For 2019 only the dwelling and population counts excluding permitted developments are presented, as the permitted developments were not built in 2019.

Westerly

Daytime

Table 8.3.64: Air Noise Contour Areas, $L_{Aeq,16h}$ Westerly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Contour Area, km²						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	26.2	26.5	26.3	26.9	21.6	22.0	23.2
54	16.0	16.0	15.8	16.3	12.3	12.6	13.5
57	8.8	8.8	8.7	8.9	6.5	6.7	7.2
60	4.6	4.6	4.5	4.6	3.4	3.5	3.8
63	2.4	2.4	2.3	2.4	1.8	1.8	2.0
66	1.2	1.2	1.2	1.2	0.9	0.9	1.0
69	0.6	0.6	0.6	0.7	0.5	0.5	0.5

Table 8.3.65: Air Noise Population Counts, $L_{Aeq,16h}$ Westerly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	216,050	214,150	211,150	216,500	168,650	175,050	179,150
54	139,200	136,950	133,700	138,700	88,850	95,300	99,650
57	61,900	59,950	57,550	61,000	34,200	36,000	38,750
60	20,250	20,100	19,850	20,900	14,300	15,000	17,200
63	8,250	7,450	7,000	7,850	2,150	3,000	3,600
66	750	700	750	950	700	700	750
69	0	0	0	0	0	0	0

Table 8.3.66: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Westerly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	85,150	84,350	83,200	85,250	65,700	68,500	69,850
54	54,300	53,450	52,150	54,100	35,650	38,000	39,550
57	25,600	24,800	23,750	25,150	13,600	14,450	15,500
60	8,300	8,200	8,050	8,500	5,850	6,250	7,000
63	3,450	3,050	2,850	3,200	650	1,000	1,250
66	240	220	240	280	220	220	240
69	0	0	0	0	0	0	0

Table 8.3.67: Air Noise Population Counts, $L_{Aeq,16h}$ Westerly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	382,200	376,750	384,500	306,600	317,300	326,950
54	-	255,750	249,600	257,950	168,500	180,250	187,650
57	-	118,750	115,700	121,800	73,500	77,350	82,000
60	-	40,850	39,700	42,150	30,100	31,300	36,650
63	-	15,650	15,200	16,050	9,600	10,450	11,800
66	-	4,450	4,500	4,700	2,200	2,200	3,000
69	-	0	0	0	0	0	0

Table 8.3.68: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Westerly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	145,600	143,550	146,500	115,900	120,250	123,650
54	-	96,500	94,150	97,350	64,200	68,550	71,200
57	-	45,650	44,400	46,800	28,150	29,500	31,250
60	-	15,850	15,400	16,350	11,700	12,250	14,200
63	-	6,100	5,850	6,250	3,400	3,800	4,300
66	-	1,600	1,600	1,650	750	750	1,050
69	-	0	0	0	0	0	0

Night-time

Table 8.3.69: Air Noise Contour Areas, $L_{Aeq,8h}$ Westerly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	4.5	5.0	7.1	5.0	4.9	5.5	5.3
48	2.3	2.5	3.7	2.5	2.7	2.9	3.0
51	1.2	1.3	1.9	1.3	1.4	1.4	1.6
55	0.5	0.6	0.8	0.6	0.6	0.6	0.7
57	0.4	0.4	0.5	0.4	0.4	0.4	0.4
60	0.2	0.2	0.3	0.2	0.2	0.2	0.3
63	0.1	0.1	0.2	0.1	0.1	0.1	0.2

Table 8.3.70: Air Noise Population Counts, $L_{Aeq,8h}$ Westerly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	20,550	23,650	38,650	23,650	23,750	27,700	26,250
48	5,250	6,300	15,650	6,300	9,400	9,250	10,800
51	700	950	3,500	950	1,200	1,250	1,500
55	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0

Table 8.3.71: Air Noise Dwelling Counts, $L_{Aeq,8h}$ Westerly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	8,200	9,300	15,650	9,300	9,550	10,850	10,500
48	1,950	2,350	6,500	2,350	3,750	3,650	4,350
51	220	330	1,250	330	360	400	440
55	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0

Table 8.3.72: Air Noise Population Counts, $L_{Aeq,8h}$ Westerly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	49,700	83,950	49,700	48,700	58,750	54,100
48	-	14,850	31,900	14,850	19,800	17,750	25,450
51	-	3,950	11,700	3,950	6,450	5,750	8,200
55	-	0	750	0	0	0	0
57	-	0	0	0	0	0	0
60	-	0	0	0	0	0	0
63	-	0	0	0	0	0	0

Table 8.3.73: Air Noise Dwelling Counts, $L_{Aeq,8h}$ Westerly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	18,950	32,150	18,950	18,750	22,350	20,800
48	-	5,500	12,500	5,500	7,600	6,800	9,750
51	-	1,450	4,300	1,450	2,300	2,050	2,900
55	-	0	280	0	0	0	0
57	-	0	0	0	0	0	0
60	-	0	0	0	0	0	0
63	-	0	0	0	0	0	0

Weekend

Table 8.3.74: Air Noise Contour Areas, $L_{Aeq,16h}$ Westerly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	15.8	15.5	15.7	15.8	13.8	12.2	15.5
54	8.7	8.5	8.6	8.6	7.4	6.5	8.4
57	4.5	4.4	4.4	4.5	3.9	3.4	4.4
60	2.3	2.3	2.3	2.3	2.0	1.8	2.3
63	1.2	1.1	1.2	1.2	1.0	0.9	1.2
66	0.6	0.6	0.6	0.6	0.6	0.5	0.6
69	0.4	0.4	0.4	0.4	0.3	0.3	0.4

Table 8.3.75: Air Noise Population Counts, $L_{Aeq,16h}$ Westerly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	136,000	132,400	131,100	134,450	102,750	91,550	116,700
54	59,650	56,650	56,350	58,100	40,550	34,200	48,950
57	19,750	19,650	19,750	19,900	17,850	14,600	21,000
60	7,400	6,900	6,650	7,000	3,750	2,000	4,700
63	700	700	700	700	750	700	750
66	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0

Table 8.3.76: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Westerly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	53,000	51,700	51,150	52,500	40,700	36,600	45,700
54	24,650	23,450	23,300	24,100	16,200	13,750	19,950
57	8,050	8,000	8,050	8,100	7,250	6,100	8,500
60	3,000	2,800	2,650	2,850	1,300	650	1,650
63	220	220	220	220	240	220	240
66	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0

Table 8.3.77: Air Noise Population Counts, $L_{Aeq,16h}$ Westerly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	248,300	247,000	250,350	194,850	172,950	224,000
54	-	113,750	114,450	116,350	86,050	72,900	102,050
57	-	39,450	39,200	39,700	37,750	30,150	45,100
60	-	15,100	14,850	15,200	11,950	9,450	13,100
63	-	4,450	4,450	4,450	3,000	2,200	3,750
66	-	0	0	0	0	0	0
69	-	0	0	0	0	0	0

Table 8.3.78: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Westerly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	93,700	93,150	94,500	73,900	65,850	84,550
54	-	43,650	43,900	44,750	32,750	28,100	39,350
57	-	15,300	15,250	15,400	14,600	11,850	17,400
60	-	5,850	5,700	5,850	4,350	3,400	4,750
63	-	1,600	1,600	1,600	1,050	750	1,350
66	-	0	0	0	0	0	0
69	-	0	0	0	0	0	0

Easterly

Daytime

The 51 and for some scenarios the 54 dB Easterly Mode Summer Day and the 51 dB Easterly Mode Summer Weekend Day noise contours extended beyond the ZoI and therefore beyond the air noise study area. The available data for the permitted developments does not fully cover the area of these contours. Dwelling and population counts including permitted developments are provided for these contours based on the extent of data available. The CACI dwelling and population data for the counts excluding the permitted developments does cover the full area of all noise contours.

Table 8.3.79: Air Noise Contour Areas, $L_{Aeq,16h}$ Easterly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	46.8	47.8	47.6	48.7	39.7	40.0	44.1
54	15.7	16.6	16.0	19.0	12.2	12.5	13.4
57	8.7	8.7	8.6	8.8	6.6	6.8	7.2
60	4.6	4.6	4.5	4.7	3.5	3.6	3.8
63	2.4	2.4	2.3	2.4	1.8	1.8	2.0
66	1.2	1.2	1.2	1.2	0.9	0.9	1.0
69	0.6	0.6	0.6	0.7	0.5	0.5	0.5

Table 8.3.80: Air Noise Population Counts, $L_{Aeq,16h}$ Easterly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	314,800	324,650	326,000	333,800	283,300	278,200	323,400
54	69,400	79,100	75,350	101,000	64,650	65,300	70,100
57	41,550	41,550	40,100	42,650	28,750	29,700	30,900
60	16,800	16,950	16,400	17,650	11,250	11,550	13,600
63	7,200	7,200	7,000	7,200	4,550	4,700	5,000
66	2,300	2,250	2,200	2,350	270	350	350
69	70	70	70	70	70	70	70

Table 8.3.81: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Easterly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	130,050	134,350	135,100	138,350	117,100	114,900	134,300
54	27,300	31,500	29,900	40,700	25,550	25,750	27,650
57	15,500	15,550	15,300	16,100	11,150	11,550	12,100
60	6,150	6,250	6,050	6,500	4,150	4,250	5,150
63	2,650	2,650	2,550	2,650	1,650	1,700	1,800
66	800	800	800	850	100	130	130
69	20	20	20	20	20	20	20

Table 8.3.82: Air Noise Population Counts, $L_{Aeq,16h}$ Easterly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	409,550[5]	410,450[5]	419,200[5]	366,700[5]	360,650[5]	409,850[5]
54	-	150,900[5]	147,750[5]	173,350[5]	135,700	135,150	141,950
57	-	93,950	93,800	97,600	72,100	76,300	82,850
60	-	42,900	41,250	43,800	20,150	22,600	23,850
63	-	12,000	11,800	12,750	7,150	7,400	8,700
66	-	2,600	2,450	2,700	270	350	350
69	-	70	70	70	70	70	70

Table 8.3.83: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Easterly Mode Summer Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	164,900[5]	165,500[5]	169,050[5]	147,100[5]	144,550[5]	165,400[5]
54	-	57,200[5]	55,800[5]	66,600[5]	51,000	50,750	53,350
57	-	34,950	35,200	36,400	27,200	28,800	31,350
60	-	15,850	15,250	16,200	7,450	8,350	8,950
63	-	4,400	4,350	4,700	2,600	2,700	3,150
66	-	900	850	1,000	100	130	130
69	-	20	20	20	20	20	20

Night-time

Table 8.3.84: Air Noise Contour Areas, $L_{Aeq,8h}$ Easterly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	4.6	5.1	7.1	5.1	5.0	5.6	5.3
48	2.3	2.6	3.8	2.6	2.7	2.9	3.0
51	1.2	1.3	1.9	1.3	1.4	1.4	1.6
55	0.5	0.6	0.8	0.6	0.6	0.6	0.7
57	0.4	0.4	0.5	0.4	0.4	0.4	0.4
60	0.2	0.2	0.3	0.2	0.2	0.2	0.3
63	0.1	0.1	0.2	0.1	0.1	0.1	0.2

Table 8.3.85: Air Noise Population Counts, $L_{Aeq,8h}$ Easterly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	19,900	21,950	30,650	21,950	17,900	24,450	19,150
48	6,150	8,050	12,650	8,050	9,300	9,350	10,550
51	750	750	4,600	750	4,050	2,350	4,500
55	0	0	70	0	70	70	70
57	0	0	70	0	0	0	0
60	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0

Table 8.3.86: Air Noise Dwelling Counts, $L_{Aeq,8h}$ Easterly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	7,850	8,700	11,900	8,700	6,600	9,650	7,100
48	2,250	3,100	4,850	3,100	3,400	3,600	3,900
51	320	320	1,650	320	1,450	850	1,650
55	0	0	20	0	20	20	20
57	0	0	20	0	0	0	0
60	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0

Table 8.3.87: Air Noise Population Counts, $L_{Aeq,8h}$ Easterly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	51,200	80,350	51,200	42,950	58,150	44,400
48	-	13,250	26,750	13,250	15,900	17,150	17,650
51	-	3,100	8,050	3,100	4,700	4,950	5,900
55	-	0	70	0	70	70	70
57	-	0	70	0	0	0	0
60	-	0	0	0	0	0	0
63	-	0	0	0	0	0	0

Table 8.3.88: Air Noise Dwelling Counts, $L_{Aeq,8h}$ Easterly Mode Summer Night

Contour, dB $L_{Aeq,8h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
45	-	19,550	30,300	19,550	15,900	22,100	16,450
48	-	5,050	10,050	5,050	5,850	6,500	6,500
51	-	1,200	2,950	1,200	1,700	1,800	2,150
55	-	0	20	0	20	20	20
57	-	0	20	0	0	0	0
60	-	0	0	0	0	0	0
63	-	0	0	0	0	0	0

Weekend

Table 8.3.89: Air Noise Contour Areas, $L_{Aeq,16h}$ Easterly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Contour Area, km^2						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	15.5	15.2	15.4	15.5	13.7	12.1	22.7
54	8.6	8.4	8.5	8.6	7.4	6.5	8.4
57	4.5	4.4	4.5	4.5	3.9	3.4	4.5
60	2.3	2.3	2.3	2.3	2.0	1.8	2.4
63	1.2	1.2	1.2	1.2	1.0	0.9	1.2
66	0.6	0.6	0.6	0.6	0.6	0.5	0.6
69	0.4	0.4	0.4	0.4	0.3	0.3	0.4

Table 8.3.90: Air Noise Population Counts, $L_{Aeq,16h}$ Easterly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of People excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	69,100	68,850	70,400	70,200	71,350	63,500	147,200
54	39,950	39,350	39,850	40,300	31,850	28,150	41,450
57	16,400	15,650	16,050	16,350	14,700	11,100	16,450
60	7,200	6,900	7,000	7,000	5,100	4,550	5,450
63	2,250	1,900	1,900	2,200	480	220	1,950
66	70	70	70	70	70	70	70
69	0	0	0	0	0	0	0

Table 8.3.91: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Easterly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings excluding Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	27,150	27,100	27,700	27,600	28,150	25,150	59,900
54	15,200	15,000	15,200	15,400	12,550	10,900	16,900
57	6,000	5,750	5,950	6,050	5,650	4,100	6,300
60	2,650	2,500	2,550	2,550	1,850	1,650	1,950
63	800	650	650	800	190	80	650
66	20	20	20	20	20	20	20
69	0	0	0	0	0	0	0

Table 8.3.92: Air Noise Population Counts, $L_{Aeq,16h}$ Easterly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of People including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	139,150	142,750	141,950	143,700	130,950	222,900[5]
54	-	89,800	92,400	91,150	85,100	73,950	100,550
57	-	40,550	39,850	41,250	26,000	20,600	32,900
60	-	11,700	11,800	11,800	8,800	6,450	11,700
63	-	2,100	2,100	2,500	480	220	2,000
66	-	70	70	70	70	70	70
69	-	0	0	0	0	0	0

Table 8.3.93: Air Noise Dwelling Counts, $L_{Aeq,16h}$ Easterly Mode Summer Weekend Day

Contour, dB $L_{Aeq,16h}$	Number of Dwellings including Permitted Developments						
	2019	2025 DM	2025 DC	2027 DM	2027 DC	2031 DM	2031 DC
51	-	52,200	53,600	53,300	54,050	49,200	87,000[5]
54	-	33,650	34,650	34,200	32,250	27,850	38,750
57	-	14,950	14,750	15,250	9,800	7,600	12,400
60	-	4,250	4,350	4,350	3,200	2,350	4,300
63	-	750	750	900	190	80	700
66	-	20	20	20	20	20	20
69	-	0	0	0	0	0	0

Variation in Noise Level Over The Day

The noise level at a receptor will vary by the hour because of variations in the hourly timetabling of aircraft over a 24-hour period. The tables below show how the noise levels at a given receptor could vary over a typical day for 2019 and the DM and DC Scenarios.

Table 8.3.94: Hourly Air Noise Exposure Levels, 2019 Average Mode Summer Day

Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	53	60	61	60	58	58	57	58	58	59	59	60	61	61	58	54	59
(2) Britannia Village	58	65	66	65	63	63	62	63	63	63	63	65	66	66	63	59	64
(3) Silvertown / A1020	55	63	64	62	60	60	60	60	60	61	61	63	63	63	60	56	61
(4) Custom House	53	60	61	60	58	58	57	58	58	59	59	60	61	61	58	54	59
(5) Camel Road	59	67	68	67	65	64	64	64	65	65	65	67	68	68	64	60	66
(6) Royal Albert Dock (north)	57	65	66	64	62	62	62	62	63	63	63	65	66	65	62	58	63
(7) North Woolwich (north)	53	61	62	60	58	58	58	58	59	59	59	61	62	61	58	54	59
(8) Thamesmead	55	61	62	61	59	59	58	59	59	59	59	61	62	62	59	55	60
(9) Eastern Quay Apts, Britannia Village	59	66	67	66	64	64	63	64	64	65	64	66	67	67	64	60	65
(10) Coral Apts, Western Gateway	57	64	65	64	62	61	61	61	62	62	62	64	65	65	62	58	63
(11) Silvertown Quays	62	69	70	69	67	67	66	67	67	68	68	69	70	70	67	63	68
(12) Ramada Hotel	59	67	68	67	65	64	64	64	65	65	65	67	68	67	64	60	66

Table 8.3.95: Hourly Air Noise Exposure Levels, 2025 DM Average Mode Summer Day

Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	53	61	61	60	58	58	57	57	58	58	58	60	62	61	58	54	59
(2) Britannia Village	58	66	66	65	63	63	62	62	63	62	62	64	67	65	62	59	64
(3) Silvertown / A1020	55	64	64	62	60	61	59	59	61	60	60	62	64	63	60	57	61
(4) Custom House	53	61	61	60	58	59	57	57	59	58	58	60	62	61	58	55	59
(5) Camel Road	59	68	68	67	65	65	64	64	65	64	64	66	68	67	64	61	66
(6) Royal Albert Dock (north)	57	66	66	64	63	63	62	61	63	62	62	64	66	65	62	59	63
(7) North Woolwich (north)	53	62	62	60	59	59	58	57	59	58	58	60	62	61	58	55	59
(8) Thamesmead	56	62	62	61	59	60	58	58	60	59	59	61	63	62	59	56	60
(9) Eastern Quay Apts, Britannia Village	59	67	67	66	64	64	63	63	64	64	64	66	68	67	64	61	65
(10) Coral Apts, Western Gateway	57	65	65	63	62	62	61	60	62	61	61	63	65	64	61	58	63
(11) Silvertown Quays	62	70	70	69	67	67	66	66	67	66	66	68	71	69	66	63	68
(12) Ramada Hotel	59	68	68	66	65	65	64	63	65	64	64	66	68	67	64	61	65

Table 8.3.96: Hourly Air Noise Exposure Levels, 2025 DC Average Mode Summer Day

Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	55	61	61	60	58	58	57	56	58	57	58	60	61	60	58	55	59
(2) Britannia Village	60	66	66	65	63	63	62	61	63	62	62	65	66	65	62	60	64
(3) Silvertown / A1020	57	63	63	62	61	61	59	59	61	60	60	62	64	63	60	57	61
(4) Custom House	55	61	61	60	58	58	57	57	58	57	58	60	62	60	58	55	59
(5) Camel Road	62	68	68	67	65	65	64	63	65	64	64	67	68	67	64	62	66
(6) Royal Albert Dock (north)	59	65	66	64	63	63	61	61	63	62	62	64	66	65	62	59	63
(7) North Woolwich (north)	55	61	62	60	59	59	57	57	59	58	58	60	62	61	58	55	59
(8) Thamesmead	56	62	62	61	59	59	58	58	59	58	59	61	63	61	59	56	60
(9) Eastern Quay Apts, Britannia Village	61	67	67	66	64	64	63	62	64	63	64	66	67	66	64	61	65
(10) Coral Apts, Western Gateway	59	65	65	64	62	62	61	60	62	61	61	64	65	64	61	59	62
(11) Silvertown Quays	64	70	70	69	67	67	66	65	67	66	67	69	70	69	67	64	68
(12) Ramada Hotel	61	67	68	66	65	65	63	63	65	64	64	66	68	67	64	61	65

Table 8.3.97: Hourly Air Noise Exposure Levels, 2027 DM Average Mode Summer Day

Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	53	61	61	60	59	58	57	57	58	58	57	60	62	61	58	54	59
(2) Britannia Village	58	66	66	65	64	63	62	61	63	63	62	65	67	65	63	59	64
(3) Silvertown / A1020	55	63	64	62	61	61	59	59	61	60	60	62	64	63	60	57	61
(4) Custom House	53	61	61	60	59	58	57	57	58	58	58	60	62	61	58	54	59
(5) Camel Road	59	68	68	67	66	65	64	63	65	65	64	67	69	67	65	61	66
(6) Royal Albert Dock (north)	57	66	66	64	63	63	62	61	63	63	62	64	66	65	62	59	63
(7) North Woolwich (north)	53	62	62	60	59	59	58	57	59	59	58	60	62	61	58	55	59
(8) Thamesmead	56	62	63	61	60	60	58	58	60	59	59	61	63	62	59	56	60
(9) Eastern Quay Apts, Britannia Village	59	67	67	66	65	64	63	63	64	64	63	66	68	67	64	60	65
(10) Coral Apts, Western Gateway	57	65	65	64	63	62	61	60	62	62	61	64	65	64	61	58	63
(11) Silvertown Quays	62	70	70	69	68	67	66	66	67	67	66	69	71	70	67	63	68
(12) Ramada Hotel	59	68	68	66	65	65	64	63	65	65	64	66	68	67	64	61	65

Table 8.3.98: Hourly Air Noise Exposure Levels, 2027 DC Average Mode Summer Day

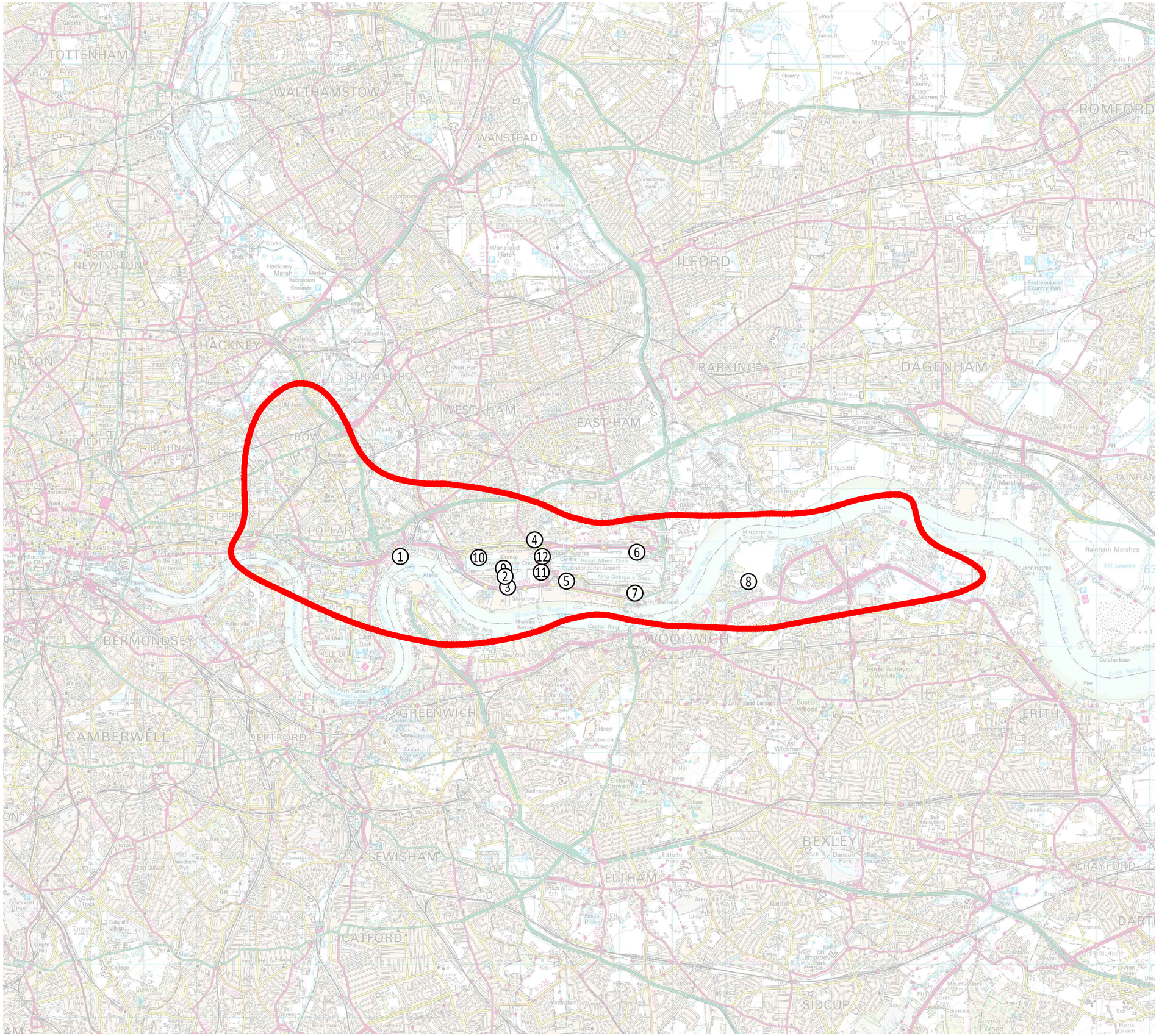
Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	53	59	59	58	57	57	55	54	56	56	56	58	60	58	56	53	57
(2) Britannia Village	58	64	65	63	62	62	60	59	61	61	61	63	65	63	61	58	62
(3) Silvertown / A1020	56	62	62	61	60	60	57	57	59	59	58	61	63	61	59	56	60
(4) Custom House	55	60	61	60	58	58	56	55	57	57	57	59	61	60	57	54	58
(5) Camel Road	61	67	67	66	65	65	62	62	64	64	64	66	68	66	64	61	65
(6) Royal Albert Dock (north)	59	64	65	64	62	62	60	60	62	61	61	64	65	64	62	59	62
(7) North Woolwich (north)	55	60	61	60	58	58	56	56	58	57	57	60	61	60	58	55	59
(8) Thamesmead	54	60	61	60	58	58	56	56	58	57	57	60	61	60	58	55	59
(9) Eastern Quay Apts, Britannia Village	59	65	66	64	63	63	61	60	62	62	62	64	66	64	62	59	63
(10) Coral Apts, Western Gateway	57	63	63	62	61	60	58	58	60	60	59	62	64	62	60	57	61
(11) Silvertown Quays	62	68	68	67	66	66	63	63	65	65	64	67	69	67	65	62	66
(12) Ramada Hotel	60	66	66	65	64	64	61	61	63	63	62	65	67	65	63	60	64

Table 8.3.99: Hourly Air Noise Exposure Levels, 2031 DM Average Mode Summer Day

Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	53	59	60	58	57	56	55	55	56	56	56	59	60	59	56	52	57
(2) Britannia Village	58	64	65	63	62	61	60	60	61	61	61	64	65	64	61	57	62
(3) Silvertown / A1020	56	62	63	61	60	59	58	57	59	59	59	61	63	62	59	55	60
(4) Custom House	54	60	61	59	58	57	56	56	57	57	57	59	61	60	57	53	58
(5) Camel Road	60	67	68	66	65	64	63	62	64	64	64	66	68	67	64	60	65
(6) Royal Albert Dock (north)	58	64	65	64	63	62	60	60	62	61	62	64	65	65	62	58	63
(7) North Woolwich (north)	54	60	61	60	59	58	56	56	58	57	58	60	61	61	58	54	59
(8) Thamesmead	56	61	61	60	59	58	56	56	58	57	58	60	61	61	58	54	59
(9) Eastern Quay Apts, Britannia Village	60	65	66	64	63	62	61	61	62	62	62	65	66	65	62	58	63
(10) Coral Apts, Western Gateway	57	63	64	62	61	60	59	58	60	60	60	62	64	63	60	56	61
(11) Silvertown Quays	62	68	69	67	66	65	64	63	65	65	65	67	69	68	65	61	66
(12) Ramada Hotel	60	66	67	65	64	63	62	61	63	63	63	65	67	66	63	59	64

Table 8.3.100: Hourly Air Noise Exposure Levels, 2031 DC Average Mode Summer Day

Locations	Hourly Noise Levels, dB $L_{Aeq,1h}$																
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	16h Avg.
(1) Blackwall / A1261	53	59	60	59	57	57	55	55	57	57	56	59	60	59	56	53	57
(2) Britannia Village	58	64	65	64	62	62	60	60	62	62	61	64	65	64	61	58	63
(3) Silvertown / A1020	57	62	63	62	60	60	58	58	60	60	59	62	63	62	59	56	60
(4) Custom House	56	60	61	60	58	58	57	56	58	58	57	60	61	61	58	55	59
(5) Camel Road	62	67	68	67	65	65	63	63	65	65	64	67	68	67	64	61	65
(6) Royal Albert Dock (north)	59	65	65	64	62	62	61	60	62	63	61	64	65	65	62	59	63
(7) North Woolwich (north)	56	61	62	60	58	58	57	56	58	59	57	60	62	61	58	55	59
(8) Thamesmead	54	61	62	60	58	58	57	56	58	59	57	60	62	61	58	55	59
(9) Eastern Quay Apts, Britannia Village	59	65	66	65	63	63	61	61	63	63	62	65	66	65	62	59	64
(10) Coral Apts, Western Gateway	57	63	64	62	60	60	59	58	60	61	60	63	64	63	60	57	61
(11) Silvertown Quays	62	68	69	67	66	65	64	63	65	66	65	68	69	68	65	62	66
(12) Ramada Hotel	61	66	67	66	64	64	62	62	64	64	63	66	67	66	63	60	64



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LEGEND:

Study Area

Representative Location

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London City Airport
Extended Operating Hours

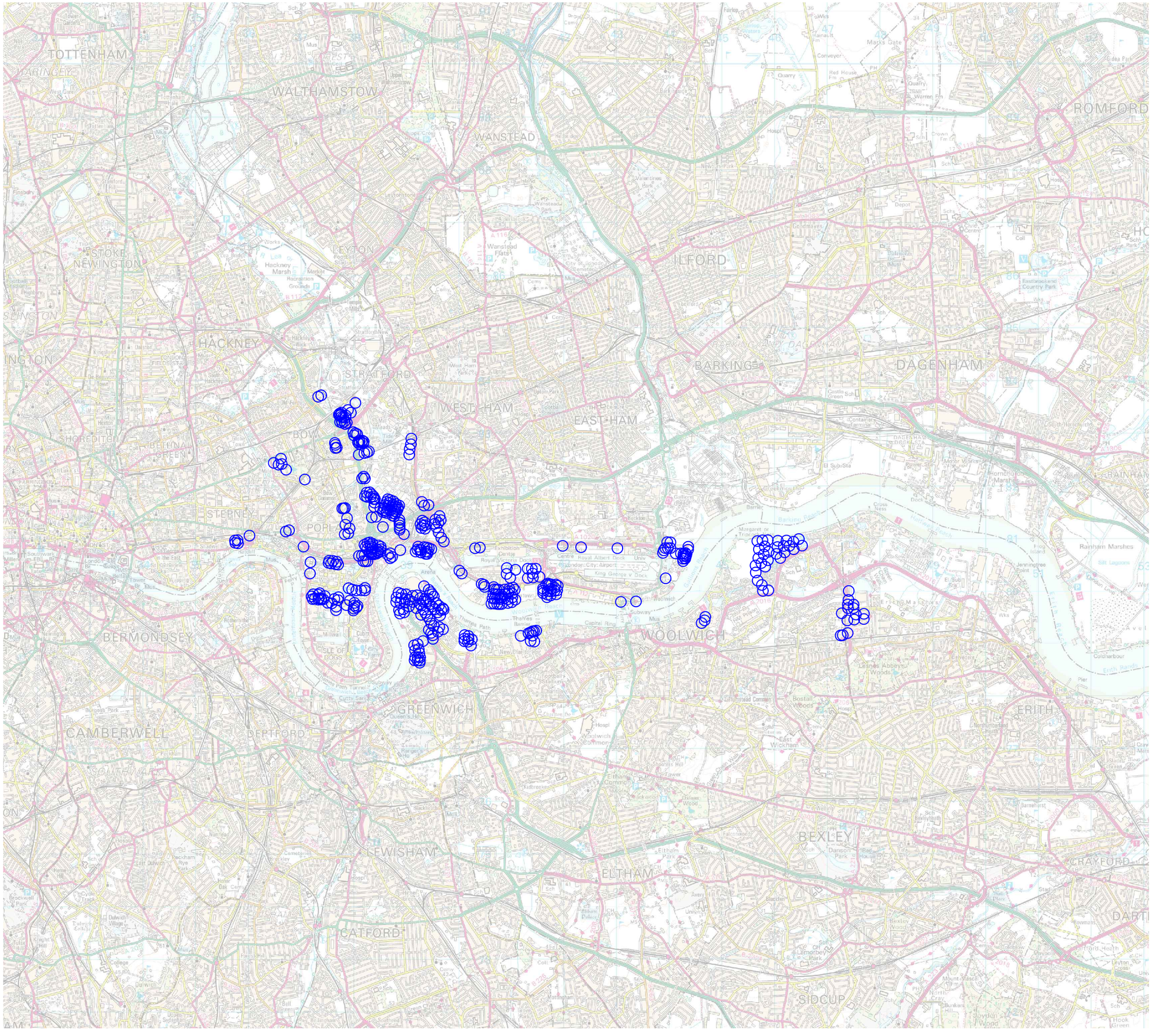
Figure 8.3.1
Air Noise Study Area and
Representative Locations

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR001_1.0



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LEGEND:

○ Permitted Developments

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London City Airport
Extended Operating Hours

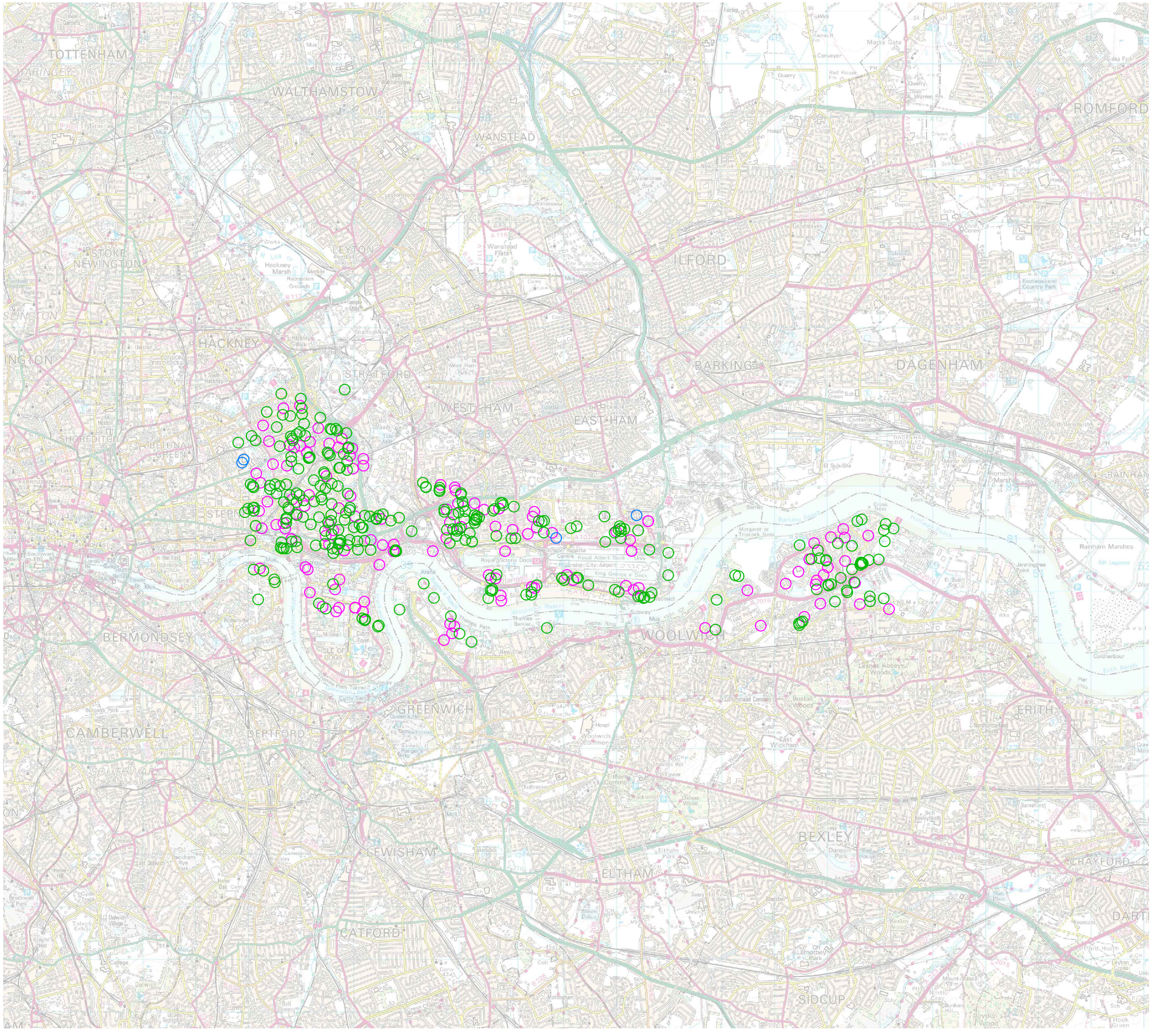
Figure 8.3.2
Air Noise Residential Receptors
Permitted Developments

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR002_1.0



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- Schools
- Long-Term Healthcare
- Outdoor Amenity Areas

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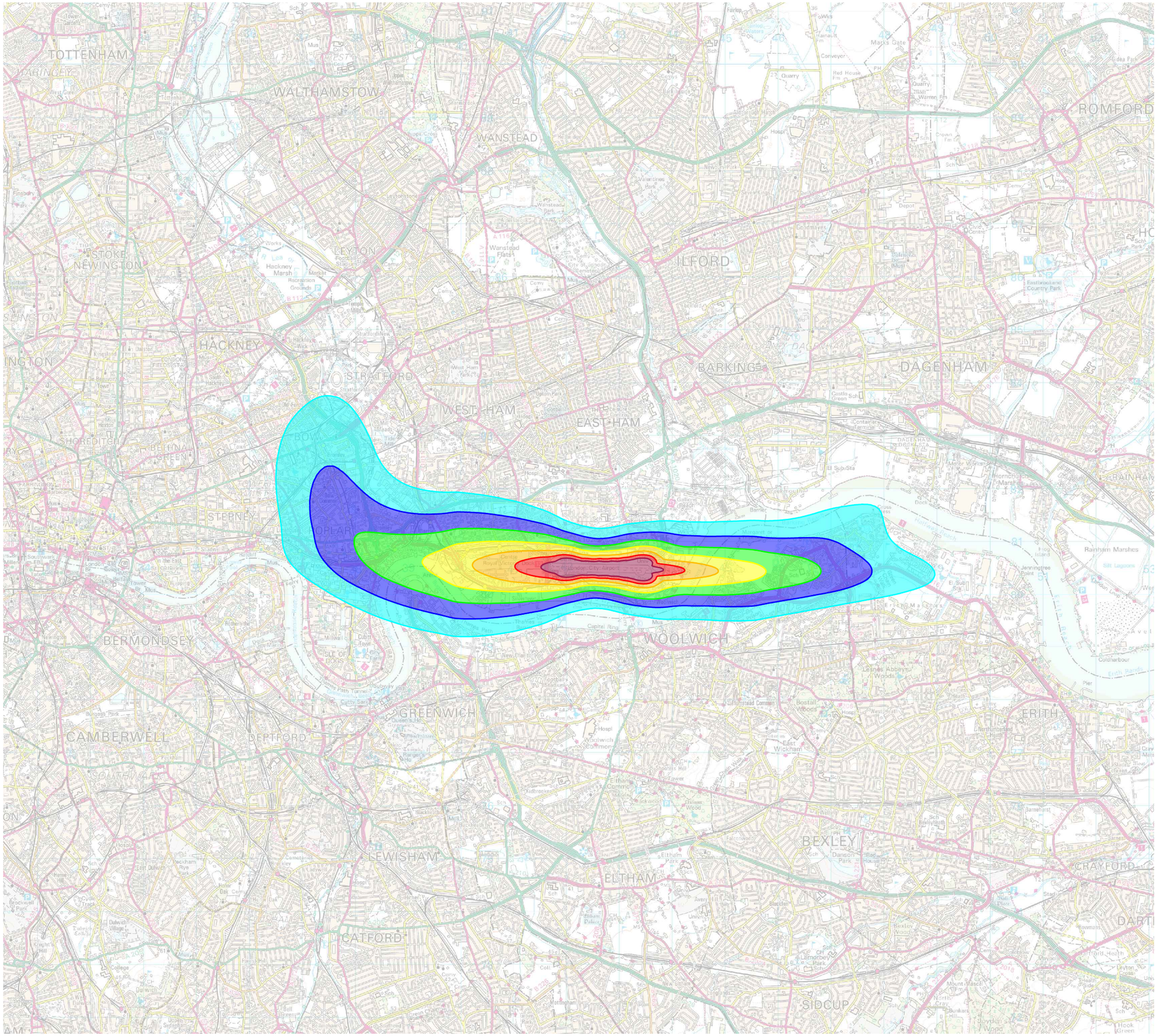
Figure 8.3.3
Air Noise Non-Residential Receptors

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR003_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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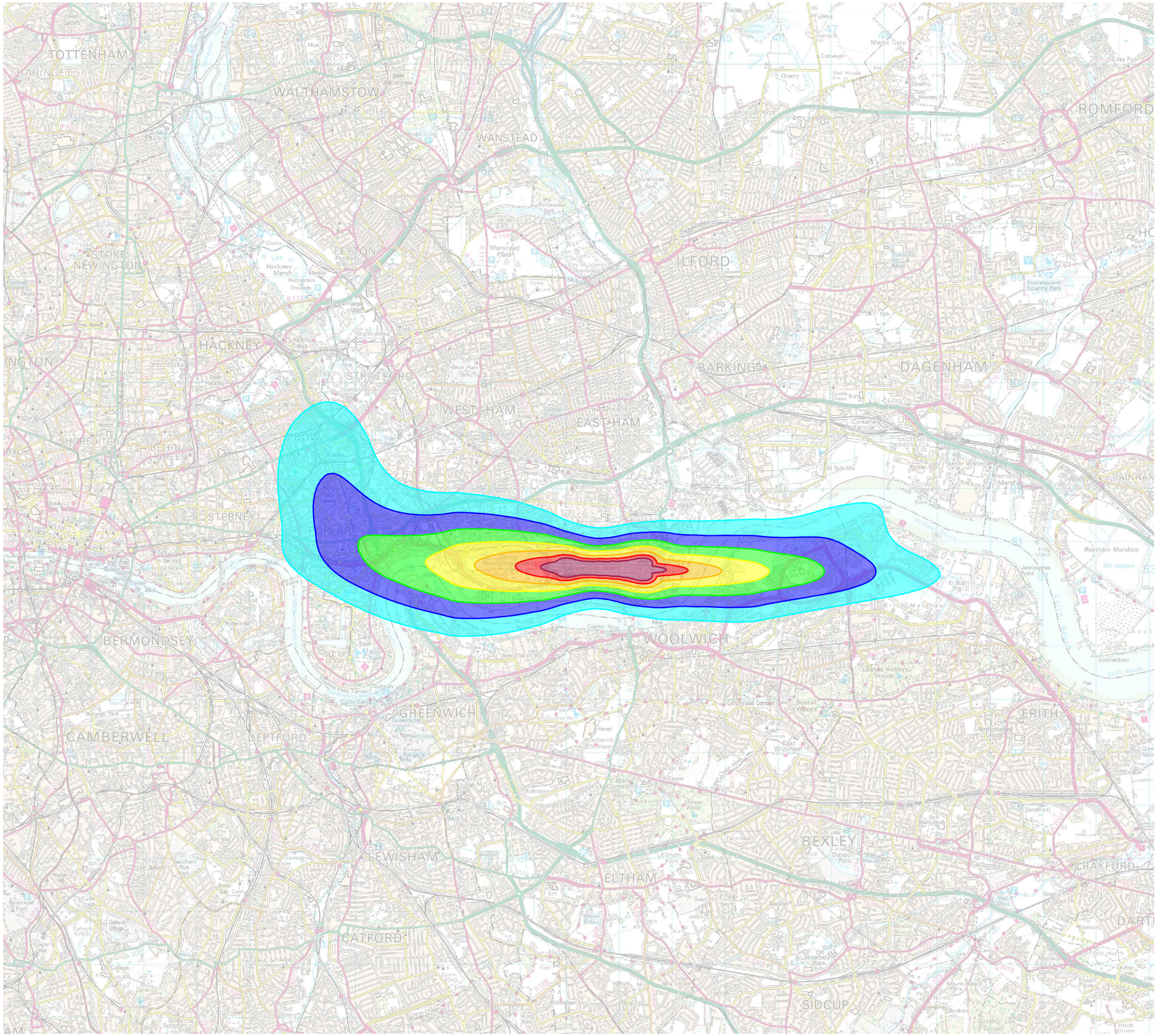
Figure 8.3.4
Average Mode Summer Day Noise Contours
2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR004_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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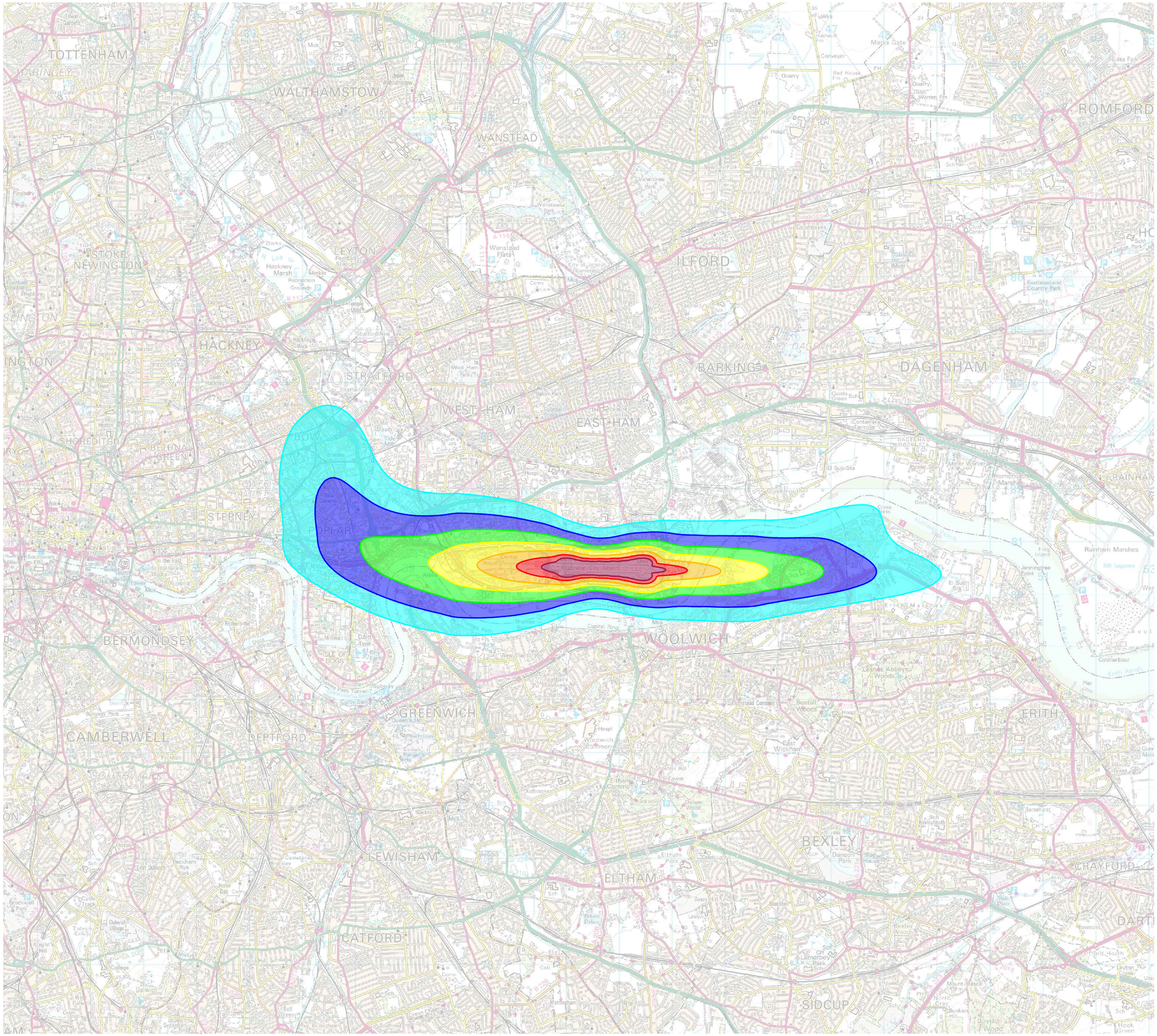
Figure 8.3.5
Average Mode Summer Day Noise Contours
2025 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR005_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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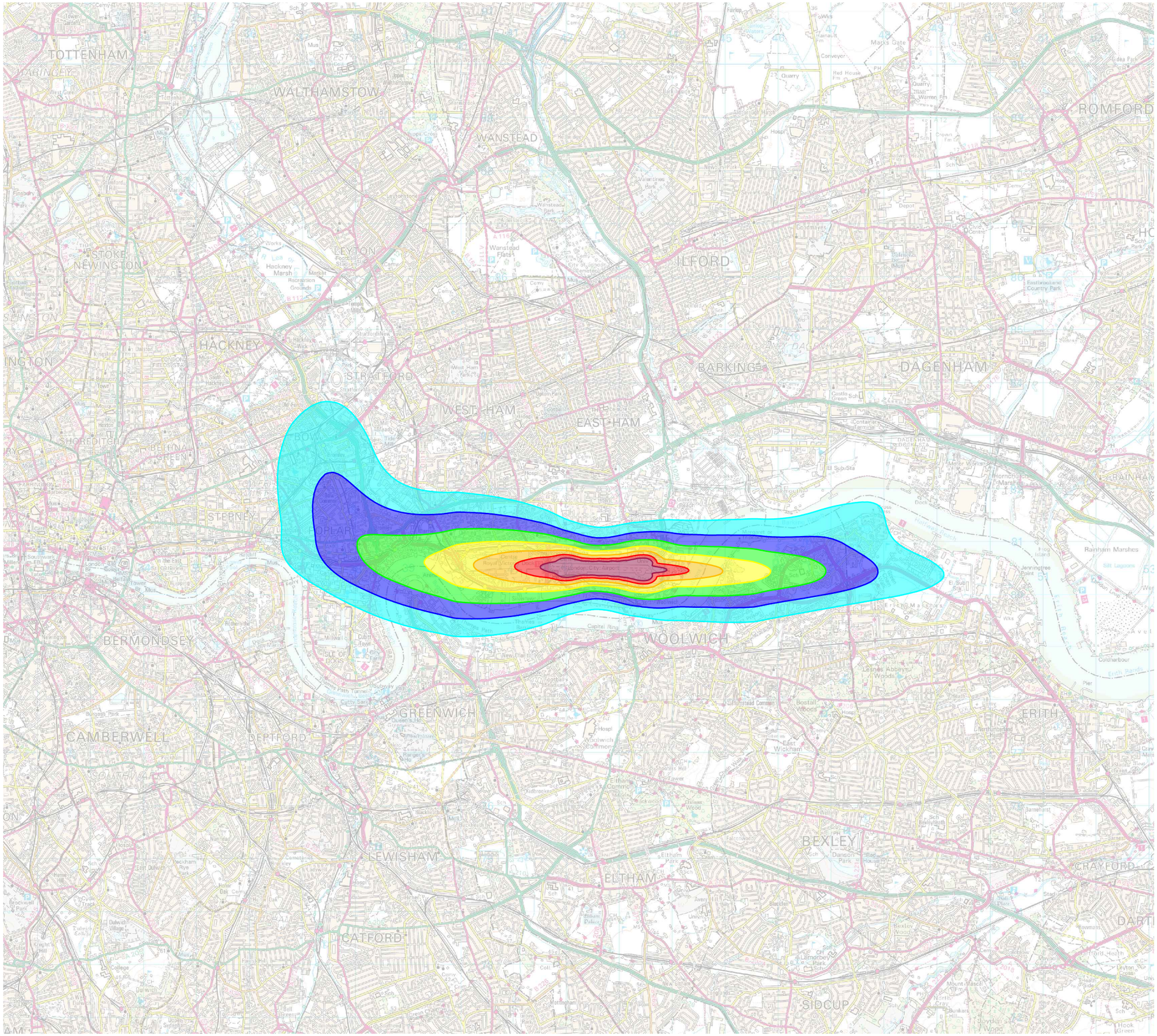
Figure 8.3.6
Average Mode Summer Day Noise Contours
2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR006_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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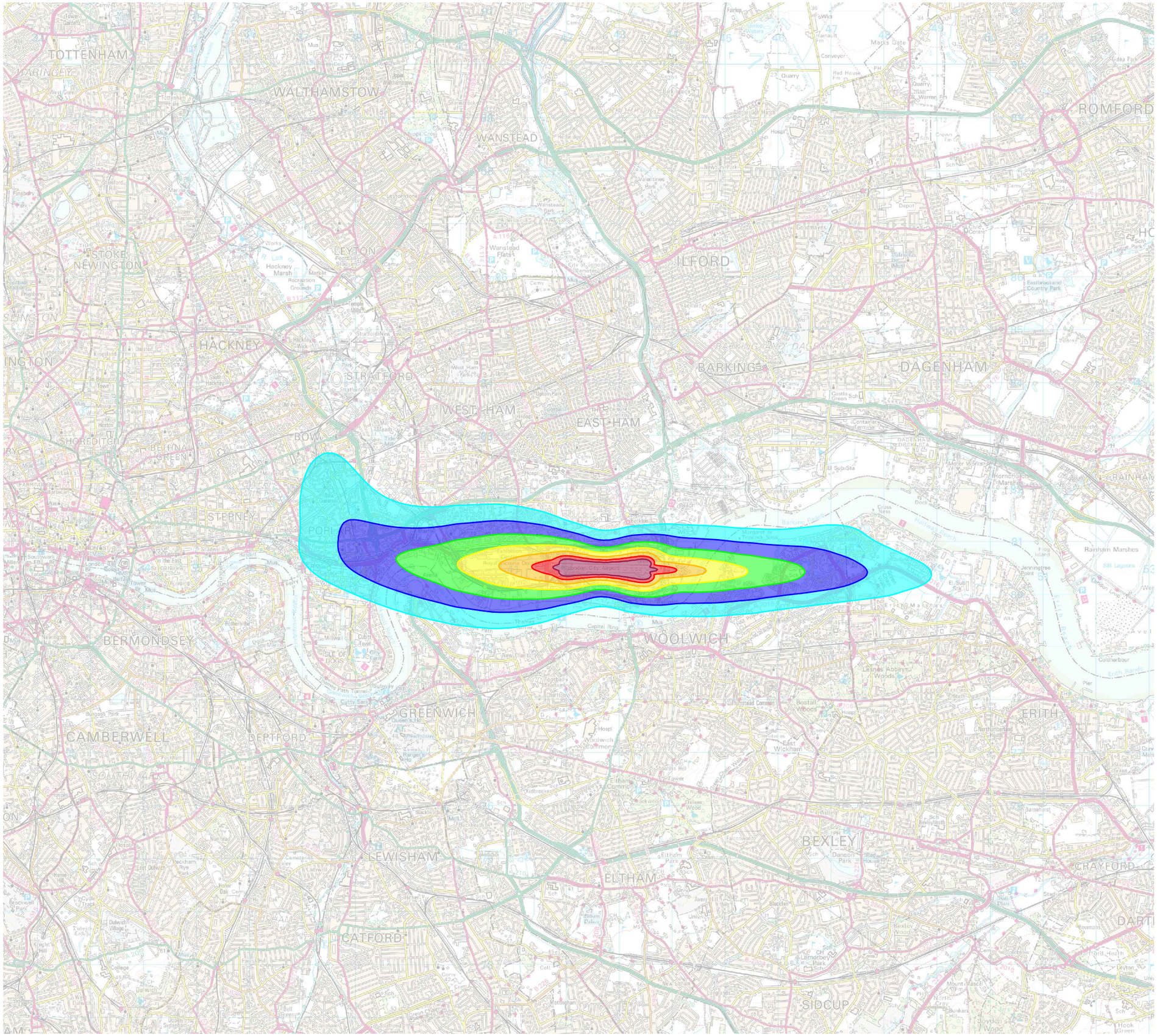
Figure 8.3.7
Average Mode Summer Day Noise Contours
2027 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR007_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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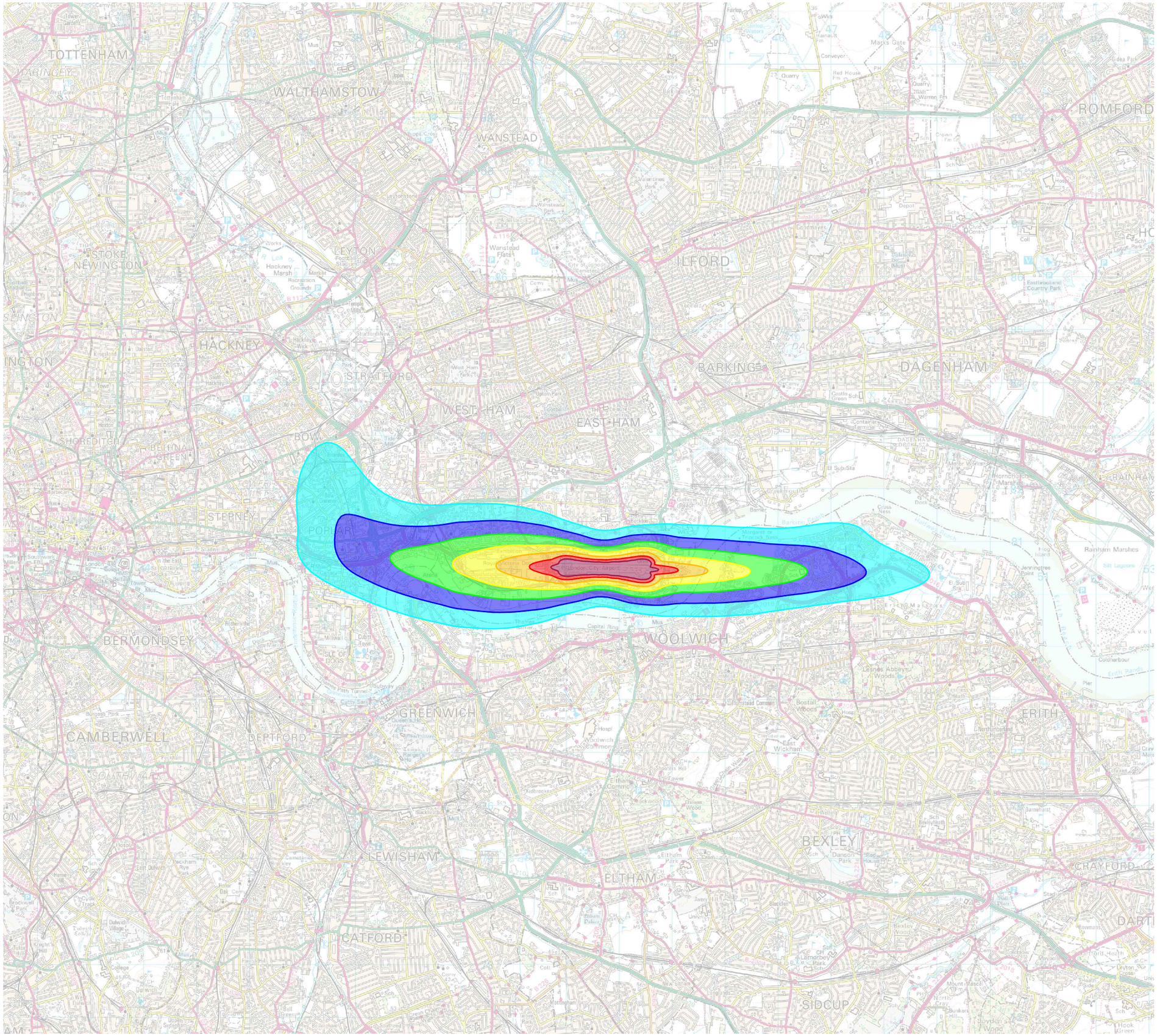
Figure 8.3.8
Average Mode Summer Day Noise Contours
2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR008_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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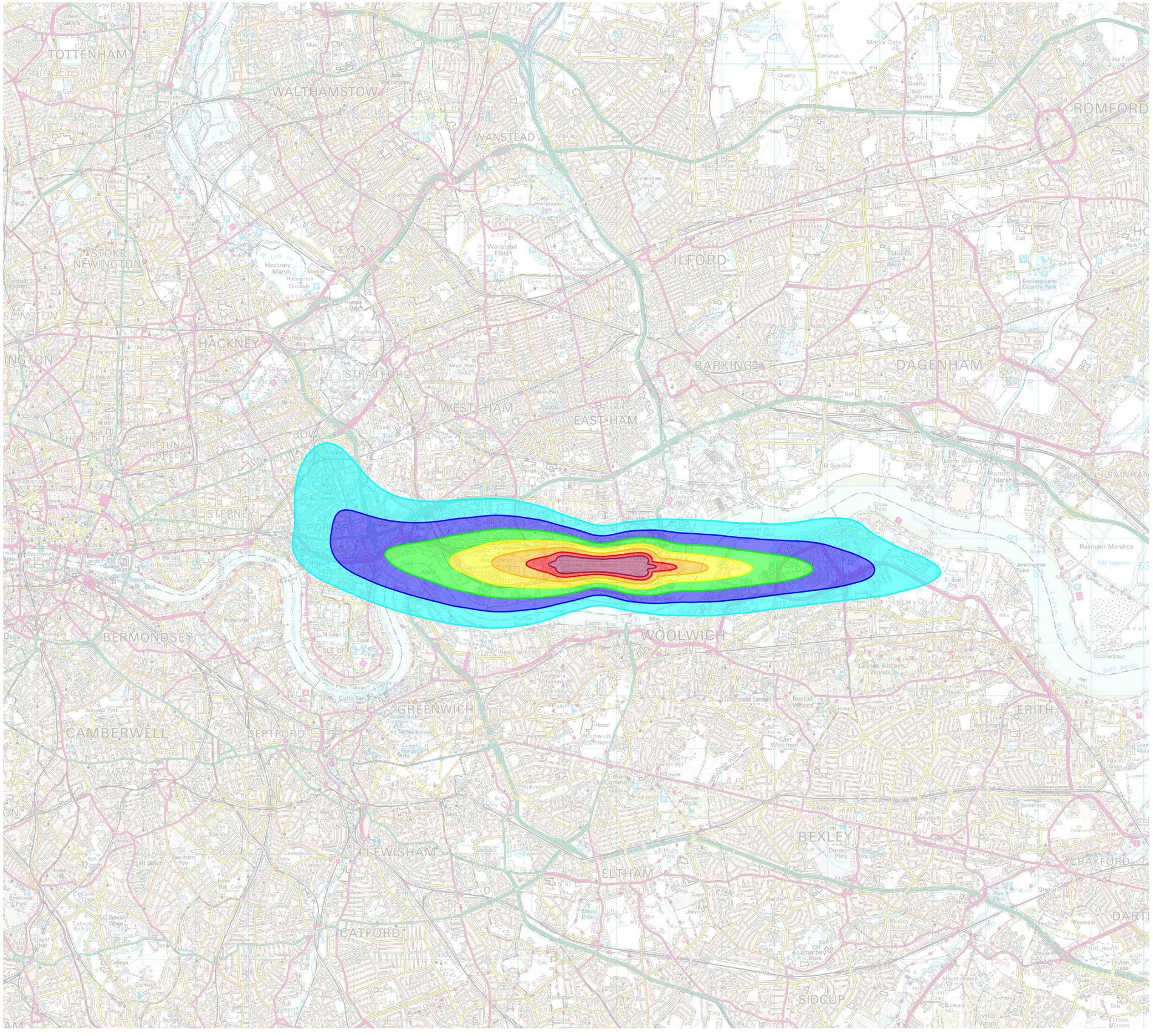
Figure 8.3.9
Average Mode Summer Day Noise Contours
2031 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR009_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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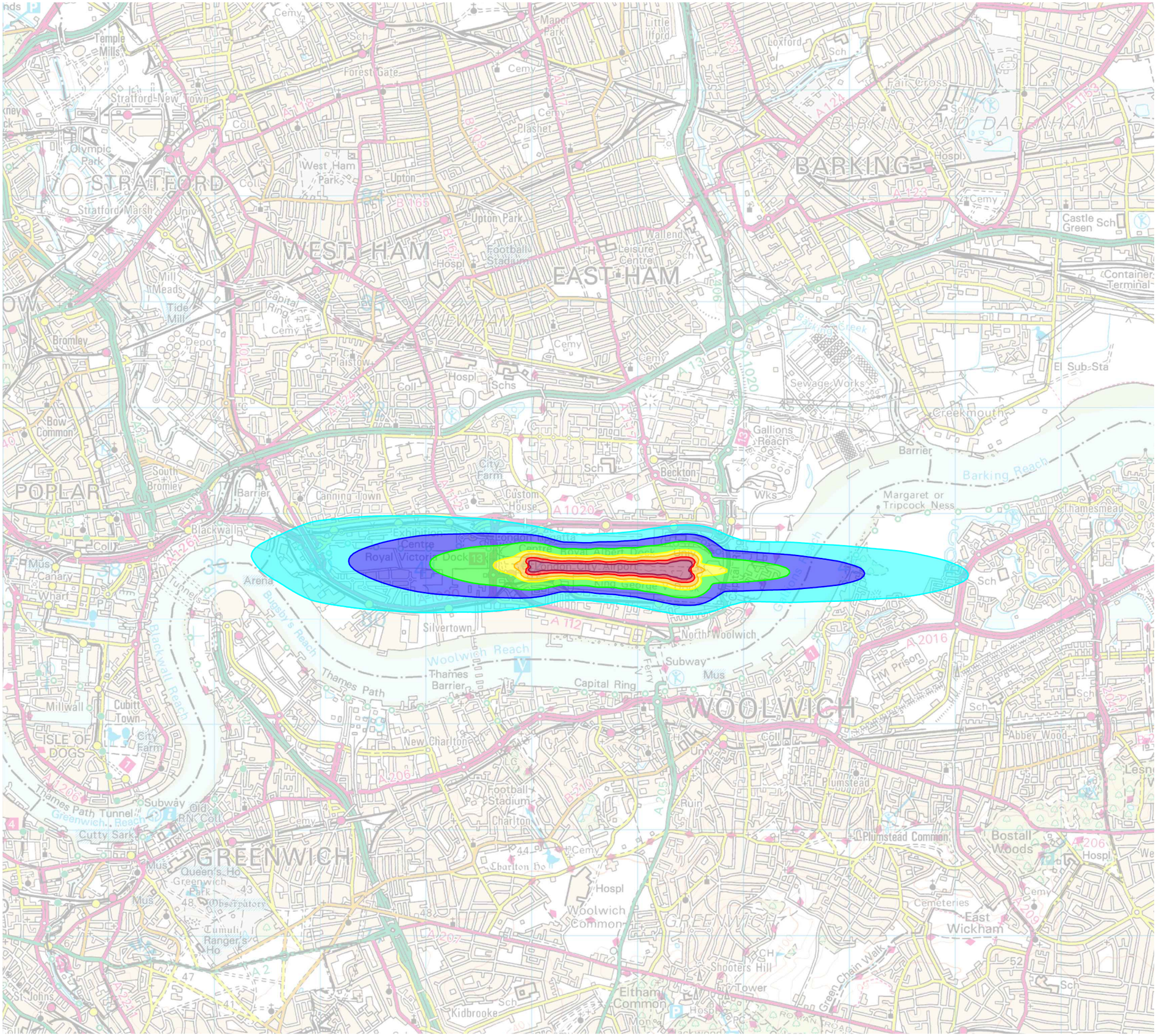
Figure 8.3.10
Average Mode Summer Day Noise Contours
2031 DC Scenario

DRAWN: MP | CHECKED: DR

DATE: December 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR010_2.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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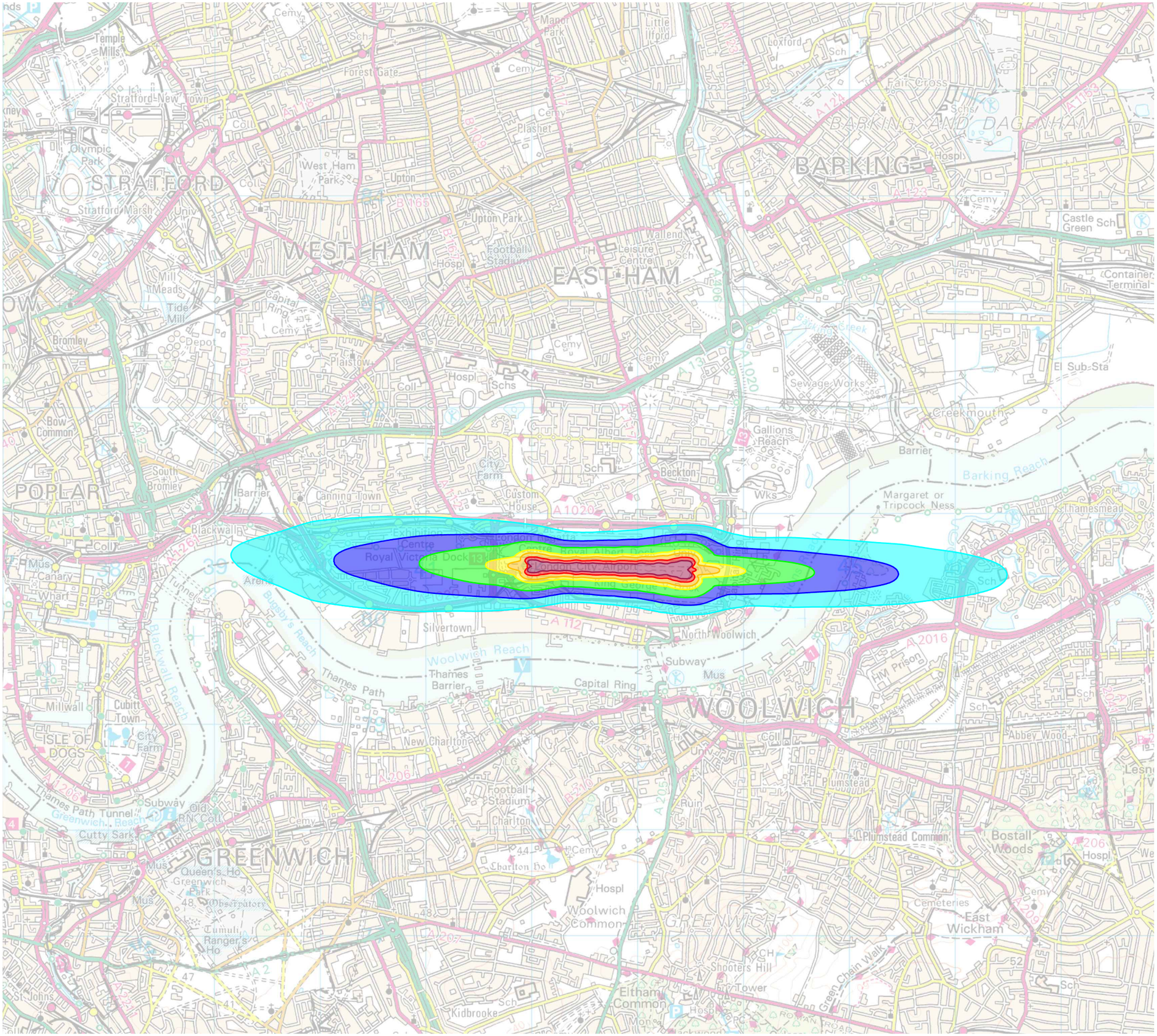
Figure 8.3.11
Average Mode Summer Night Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR011_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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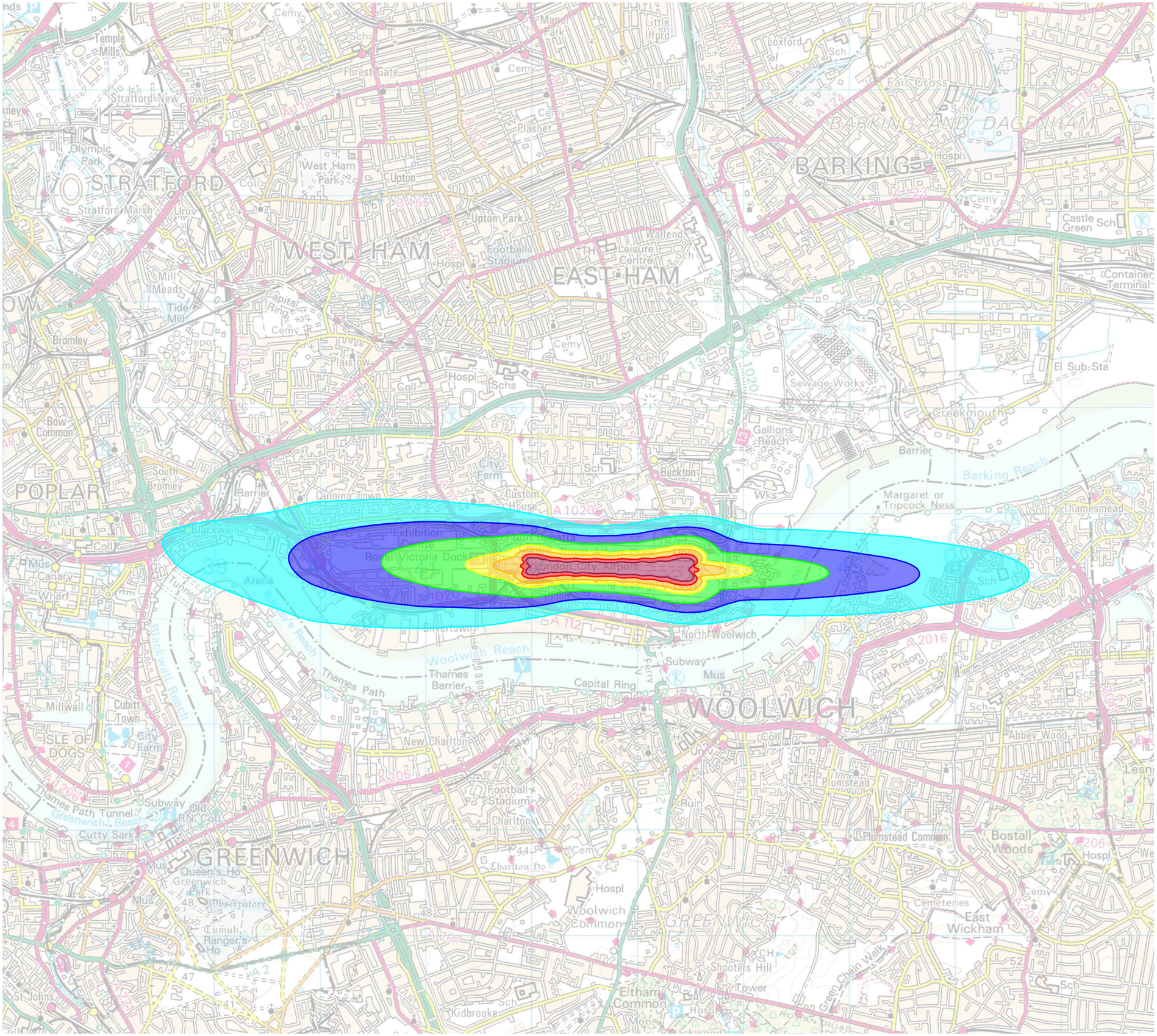
Figure 8.3.12
Average Mode Summer Night Noise Contours - 2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR012_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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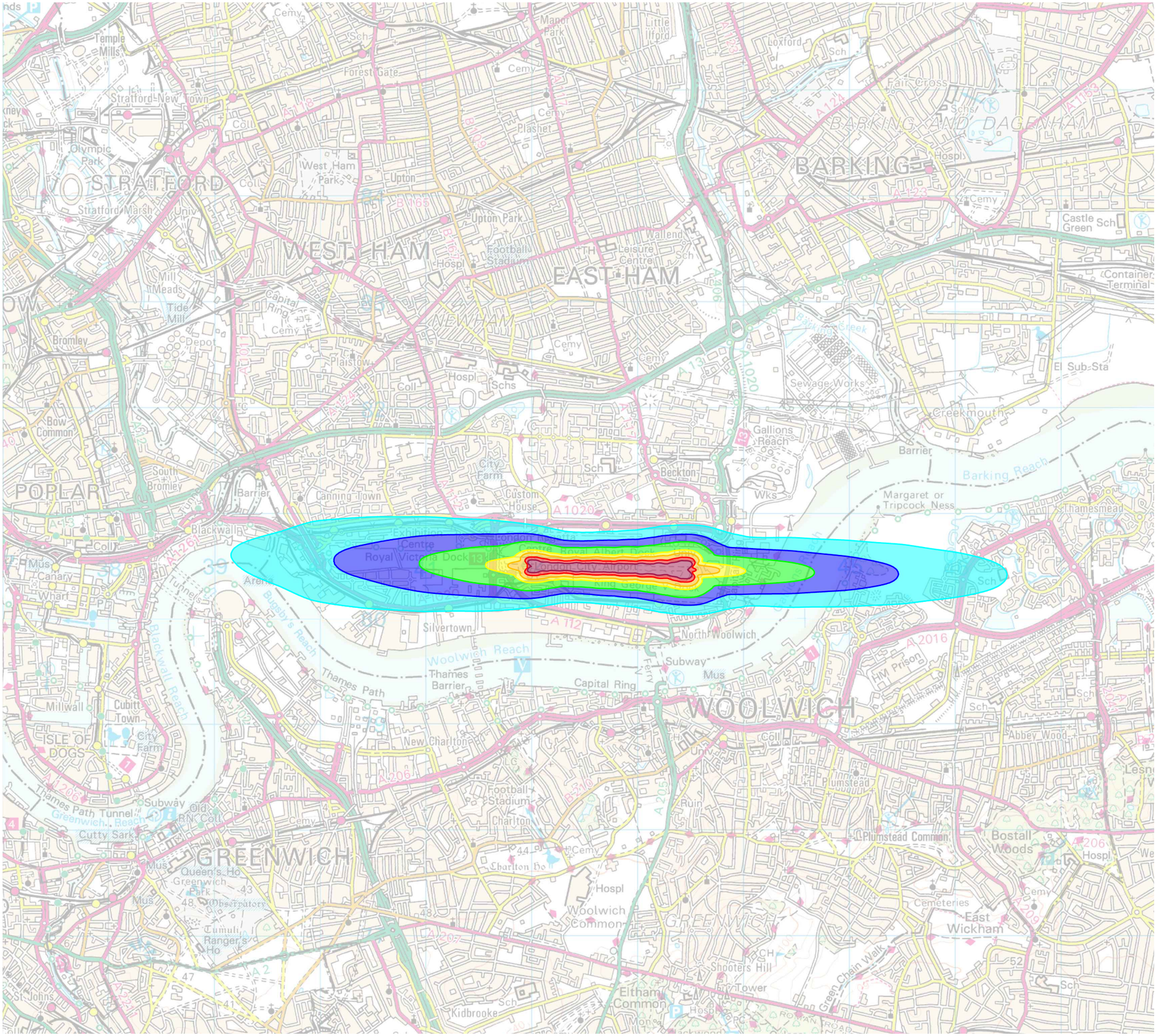
Figure 8.3.13
Average Mode Summer Night Noise Contours - 2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR013_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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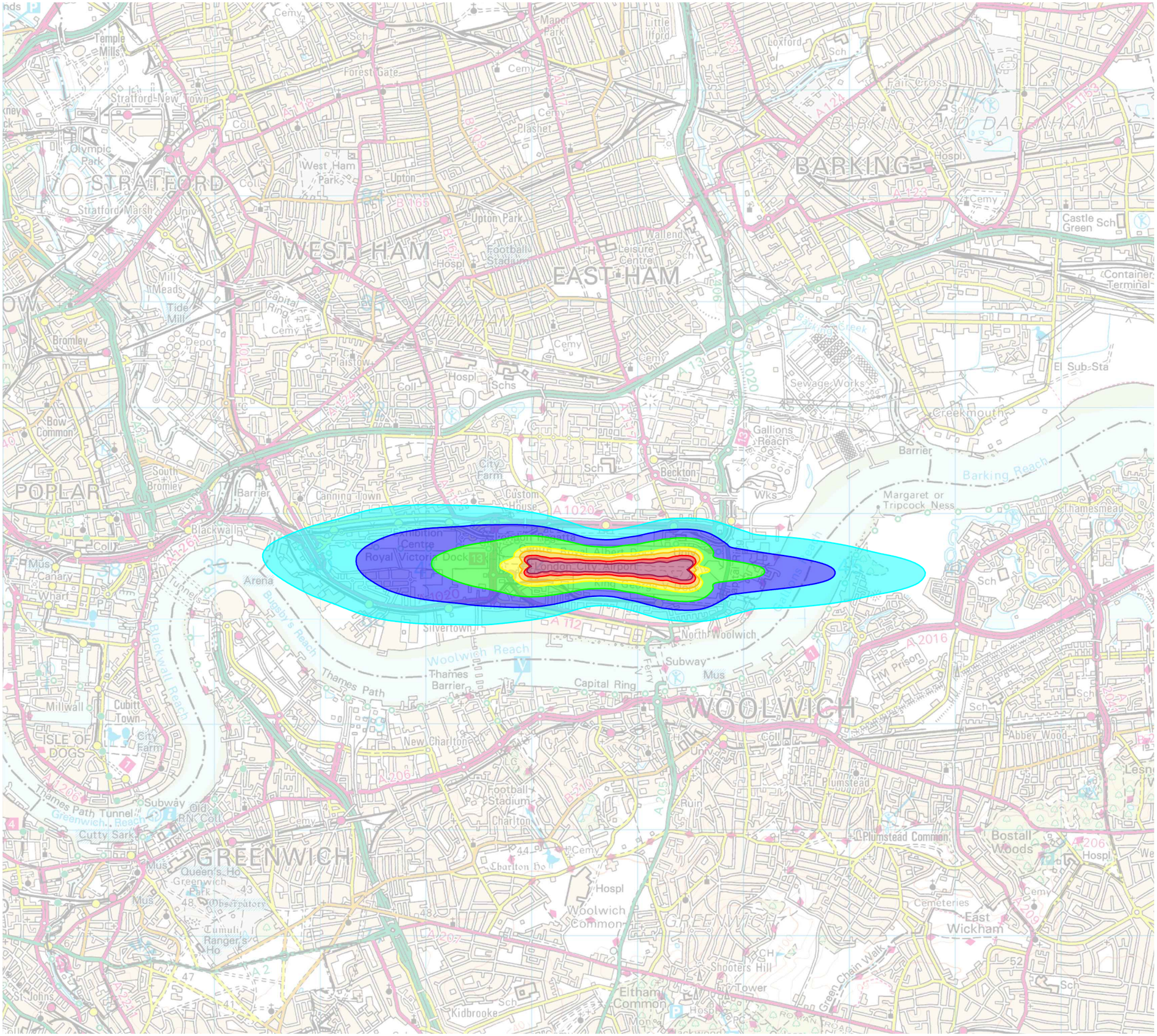
Figure 8.3.14
Average Mode Summer Night Noise Contours - 2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR014_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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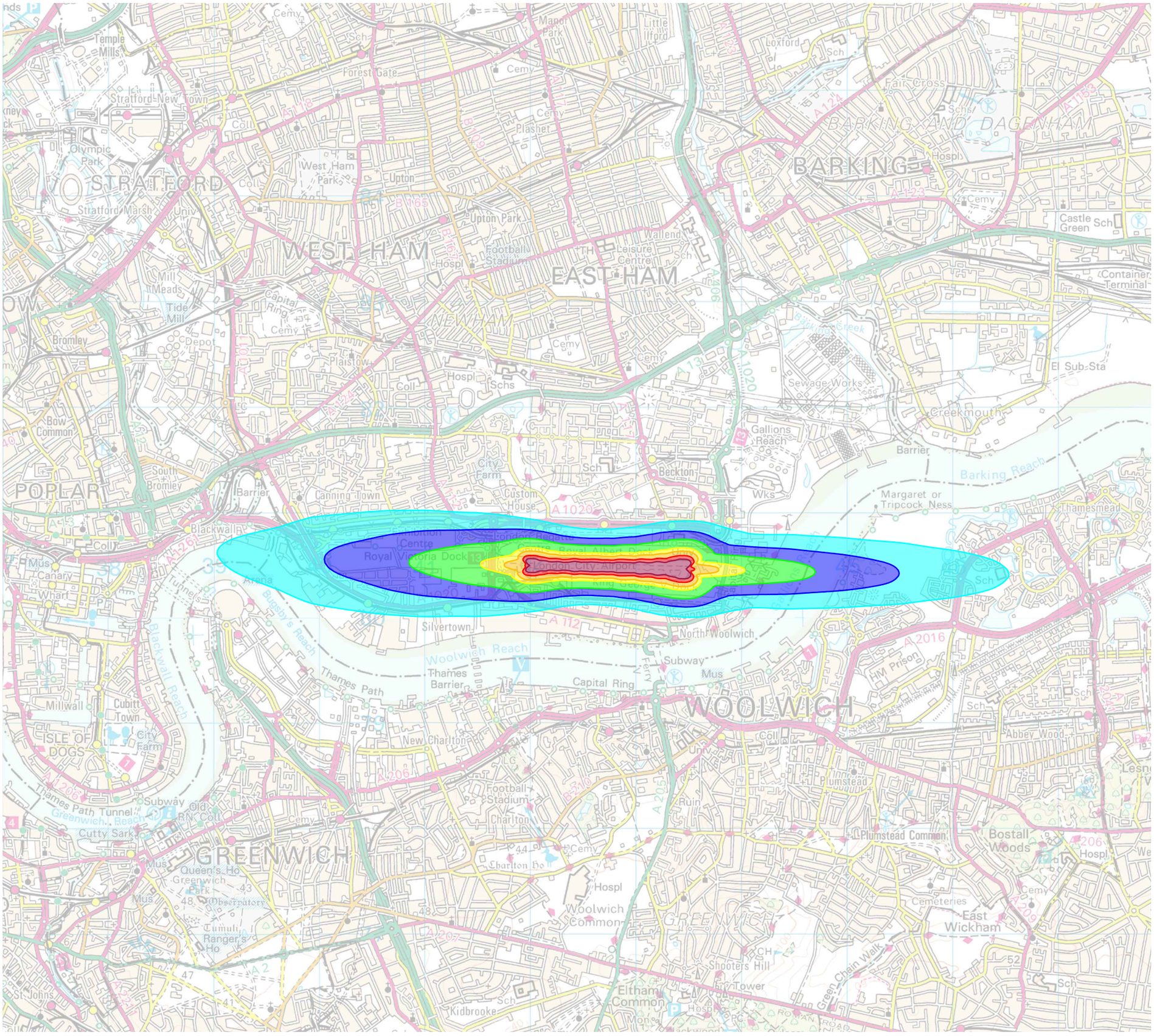
Figure 8.3.15
Average Mode Summer Night Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR015_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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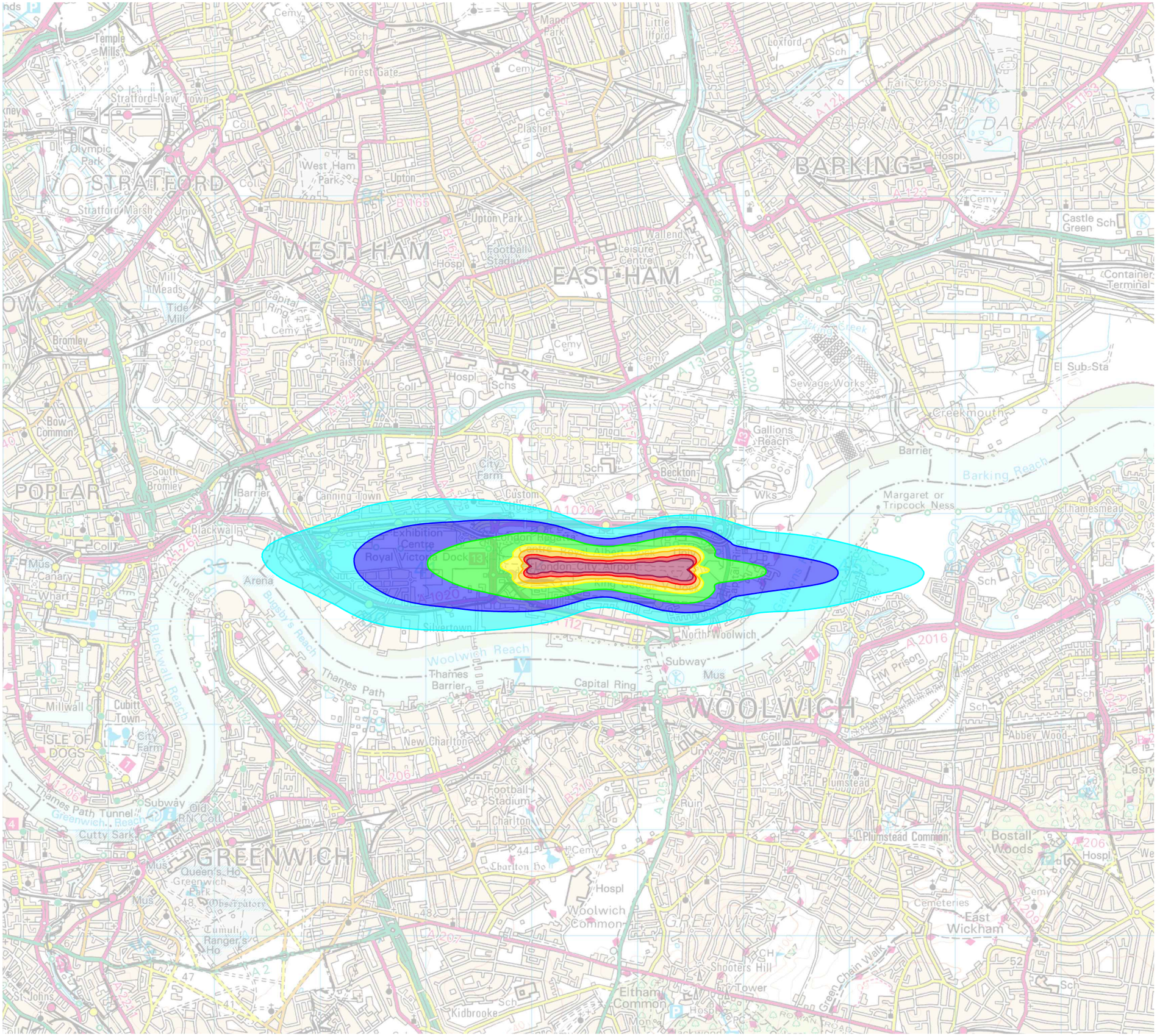
Figure 8.3.16
Average Mode Summer Night Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR016_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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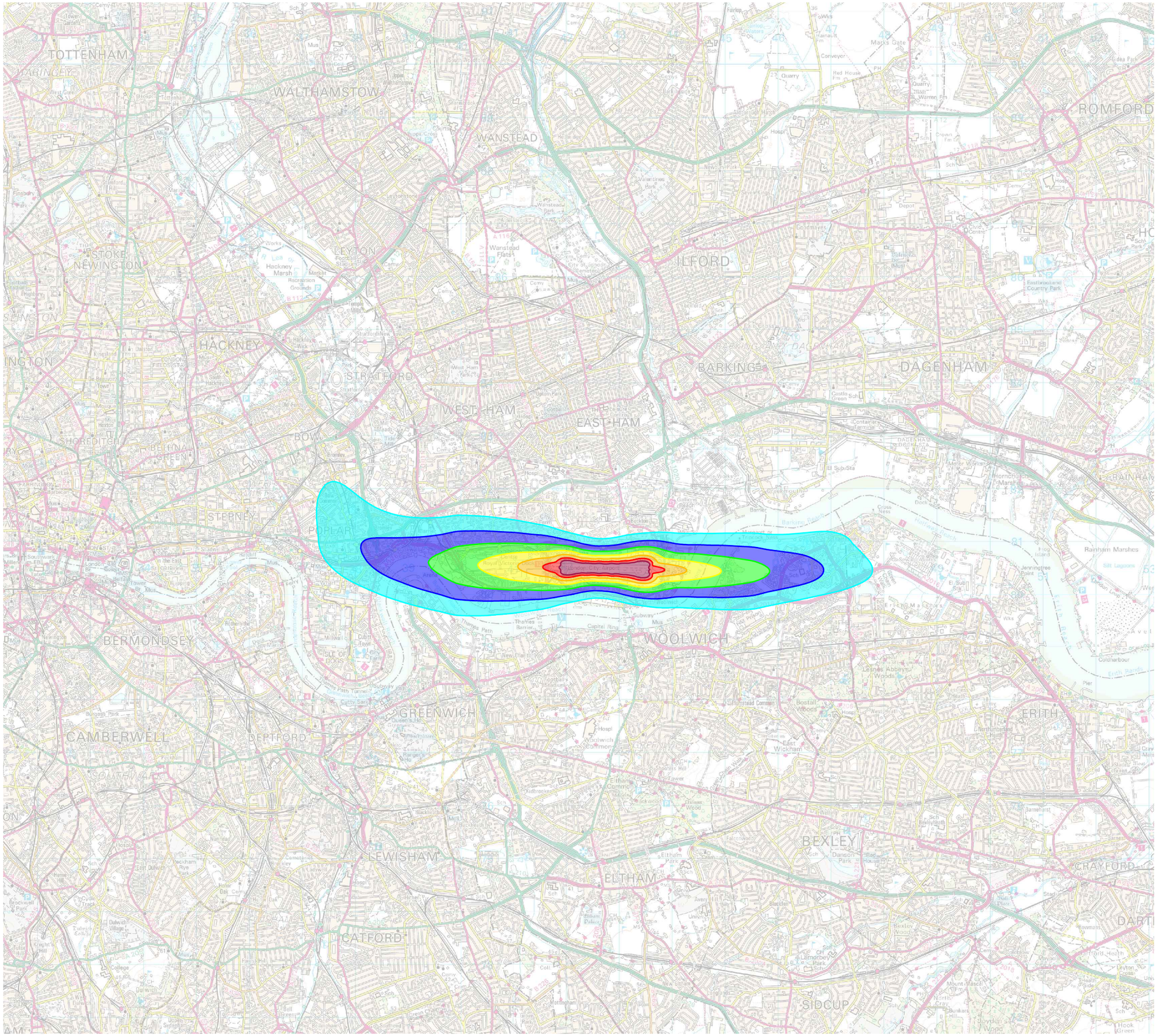
Figure 8.3.17
Average Mode Summer Night Noise Contours - 2031 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR017_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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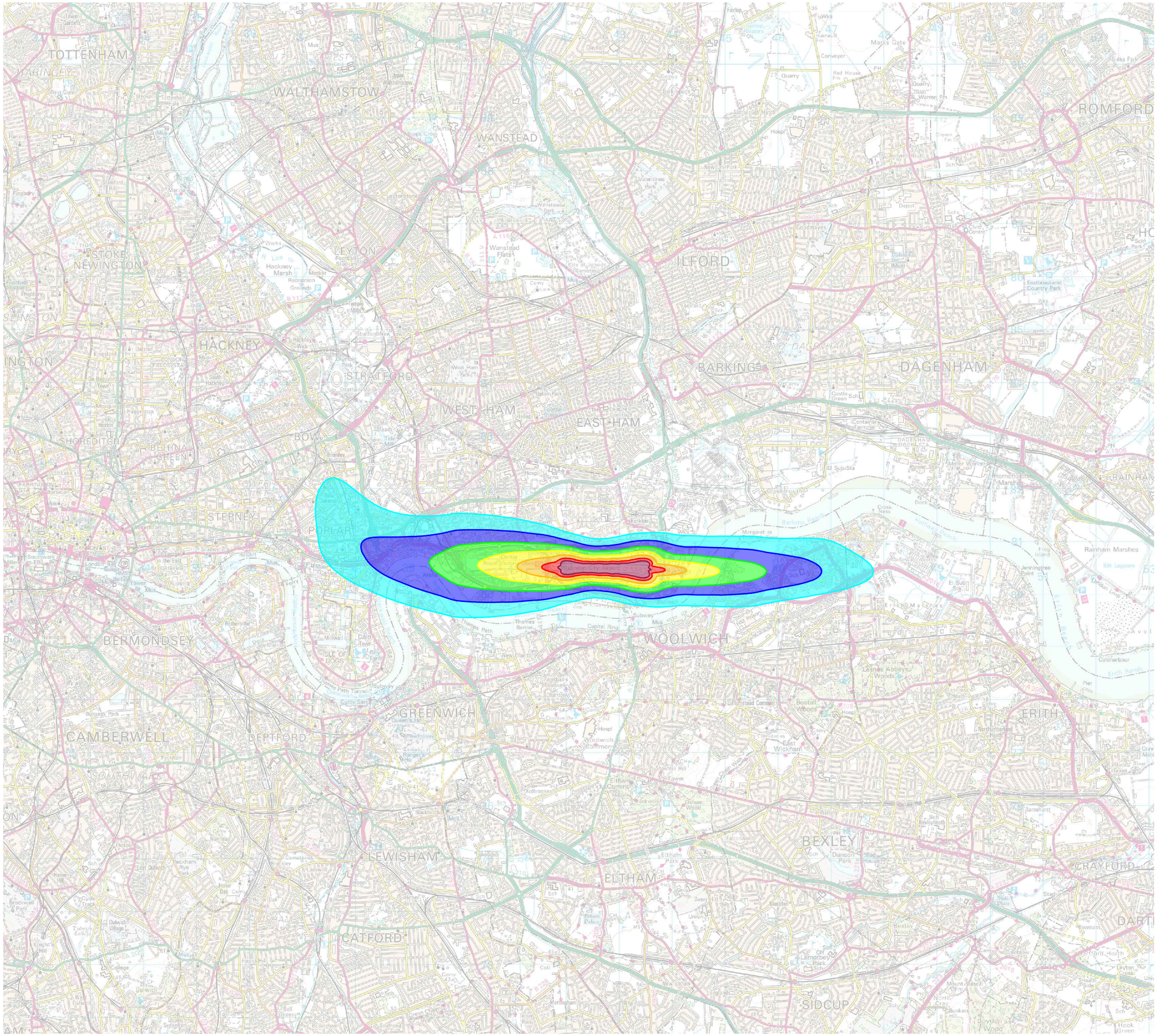
Figure 8.3.18
Average Mode Summer Weekend Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR018_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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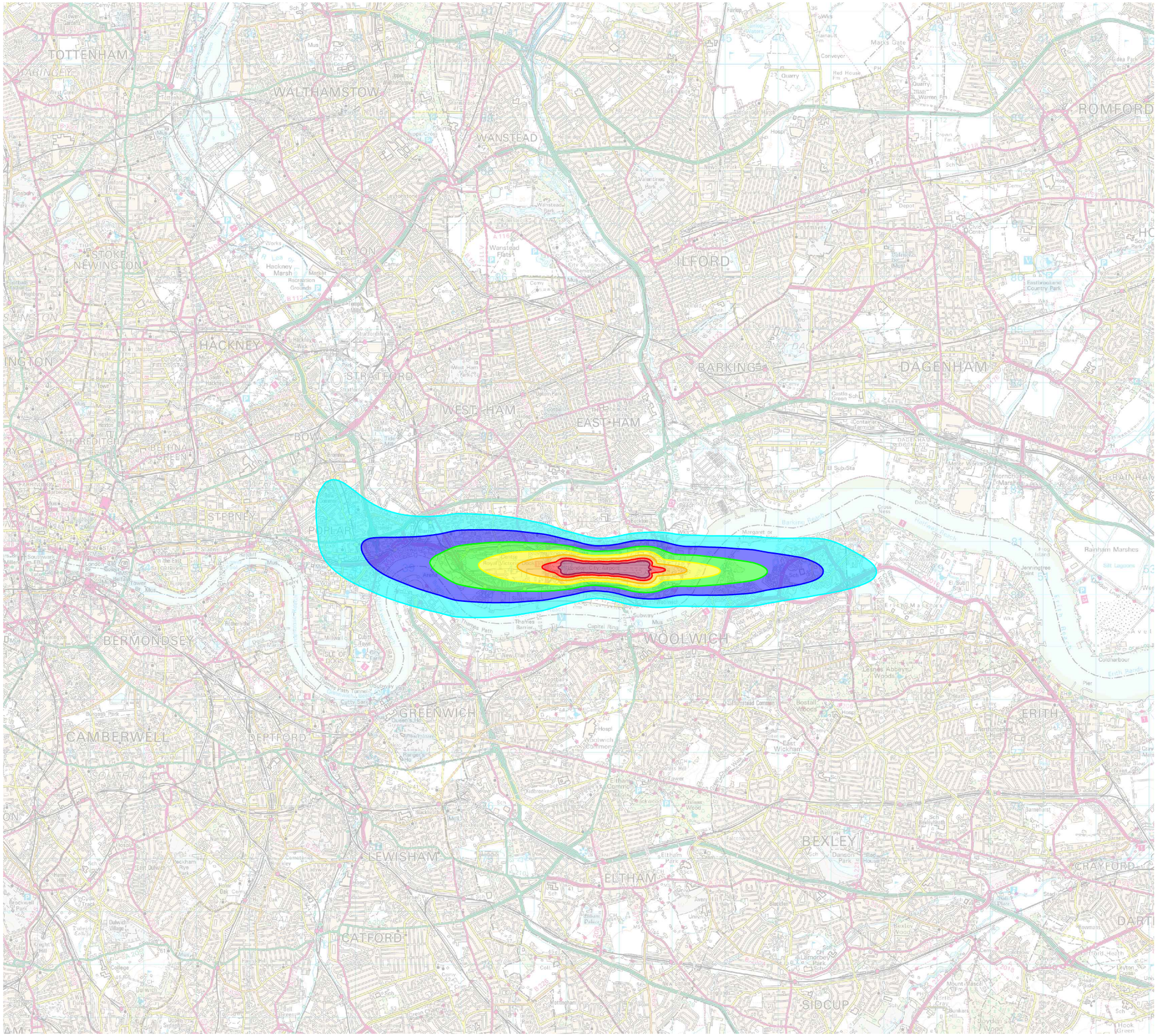
Figure 8.3.19
Average Mode Summer Weekend Noise Contours - 2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR019_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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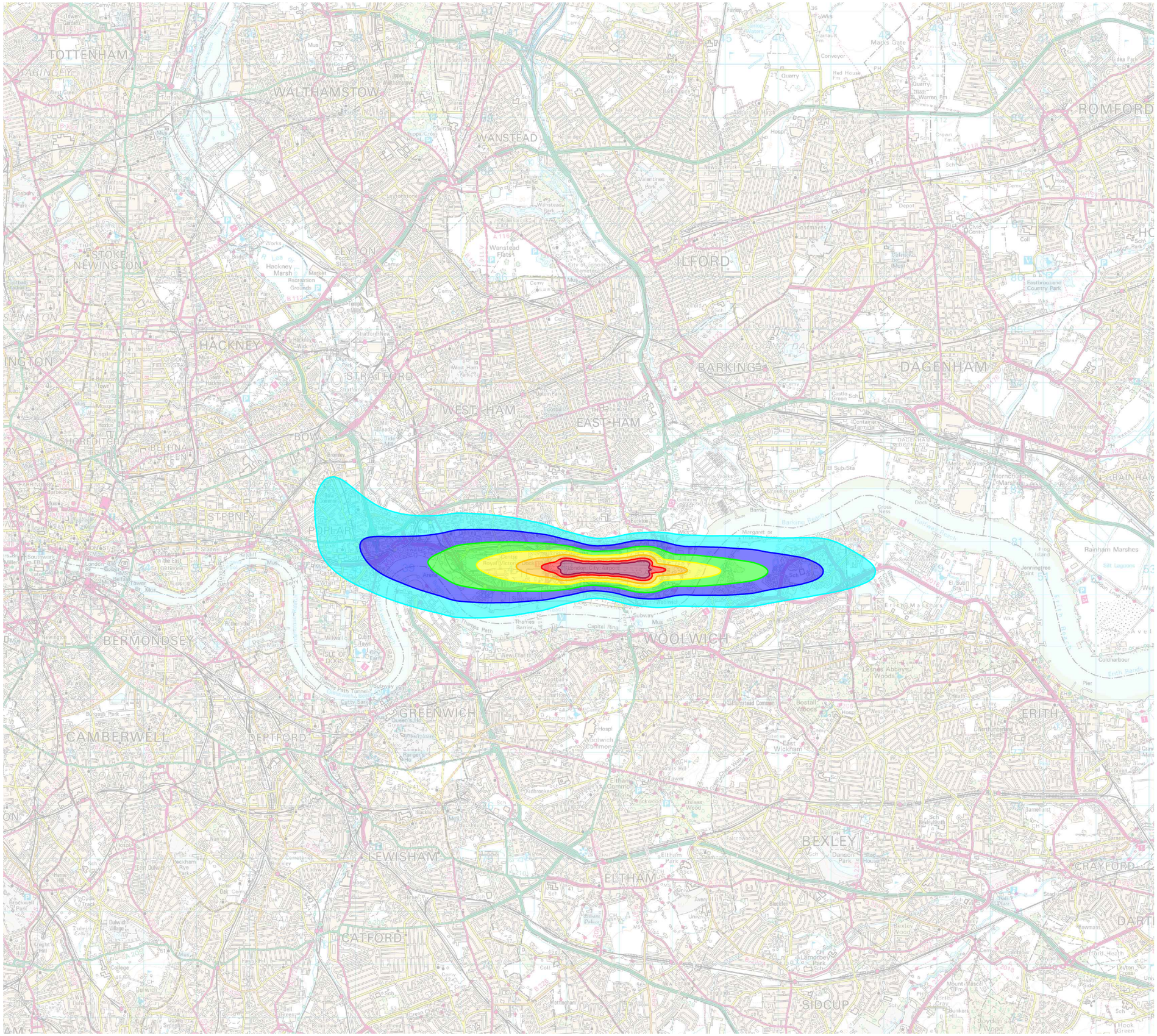
Figure 8.3.20
Average Mode Summer Weekend Noise Contours - 2025 DC Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR020_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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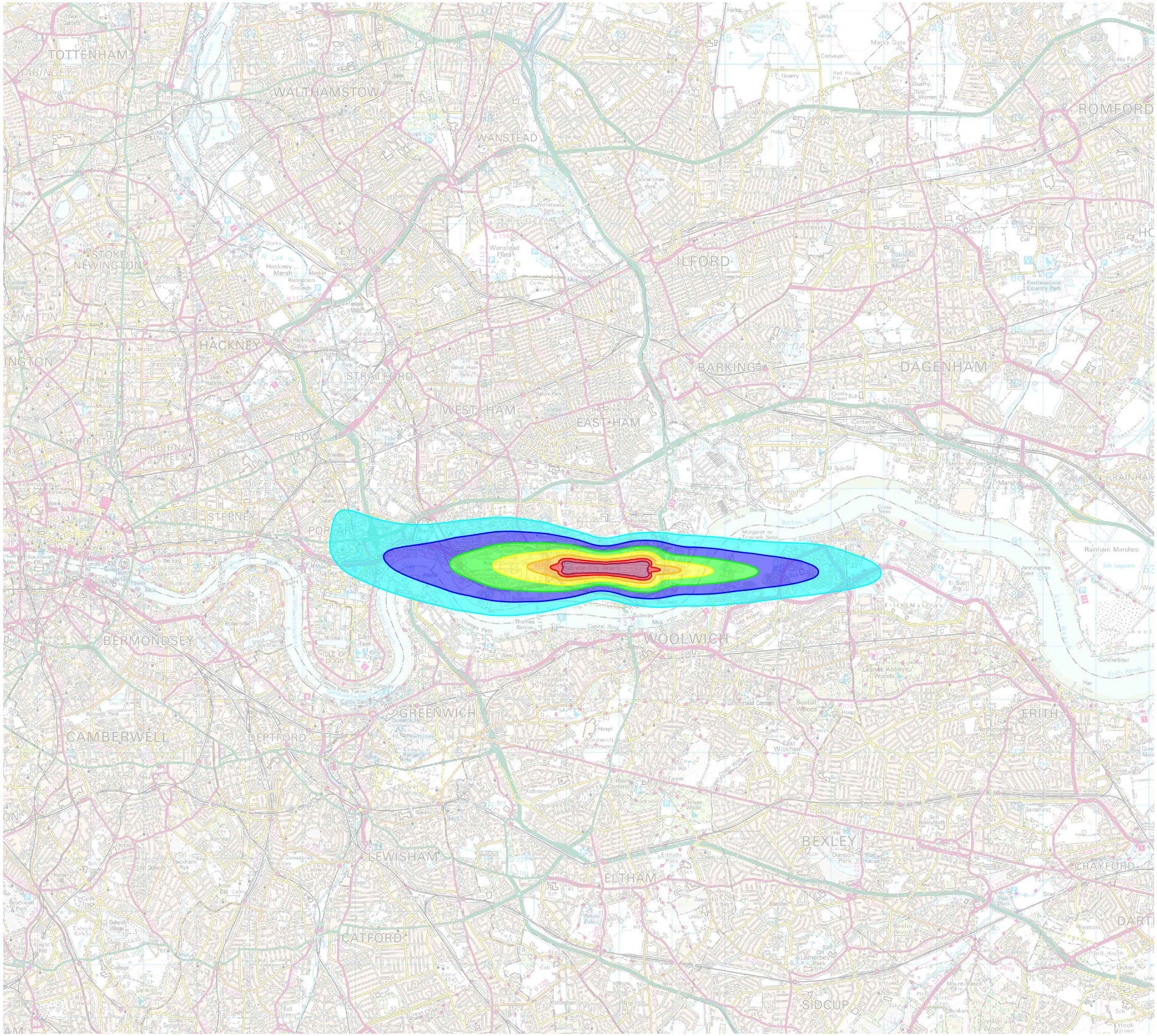
Figure 8.3.21
Average Mode Summer Weekend Noise Contours - 2027 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR021_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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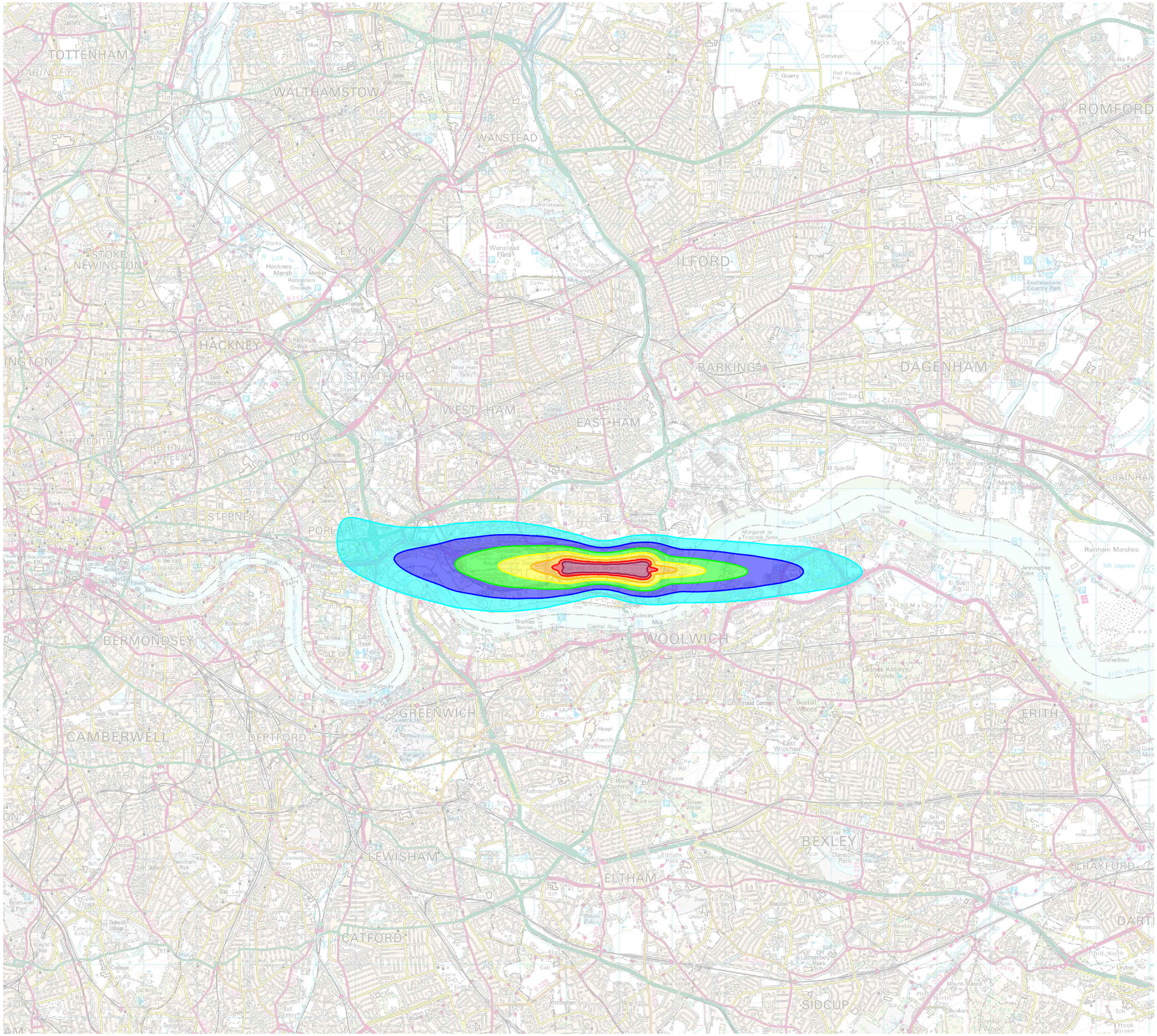
Figure 8.3.22
Average Mode Summer Weekend Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR022_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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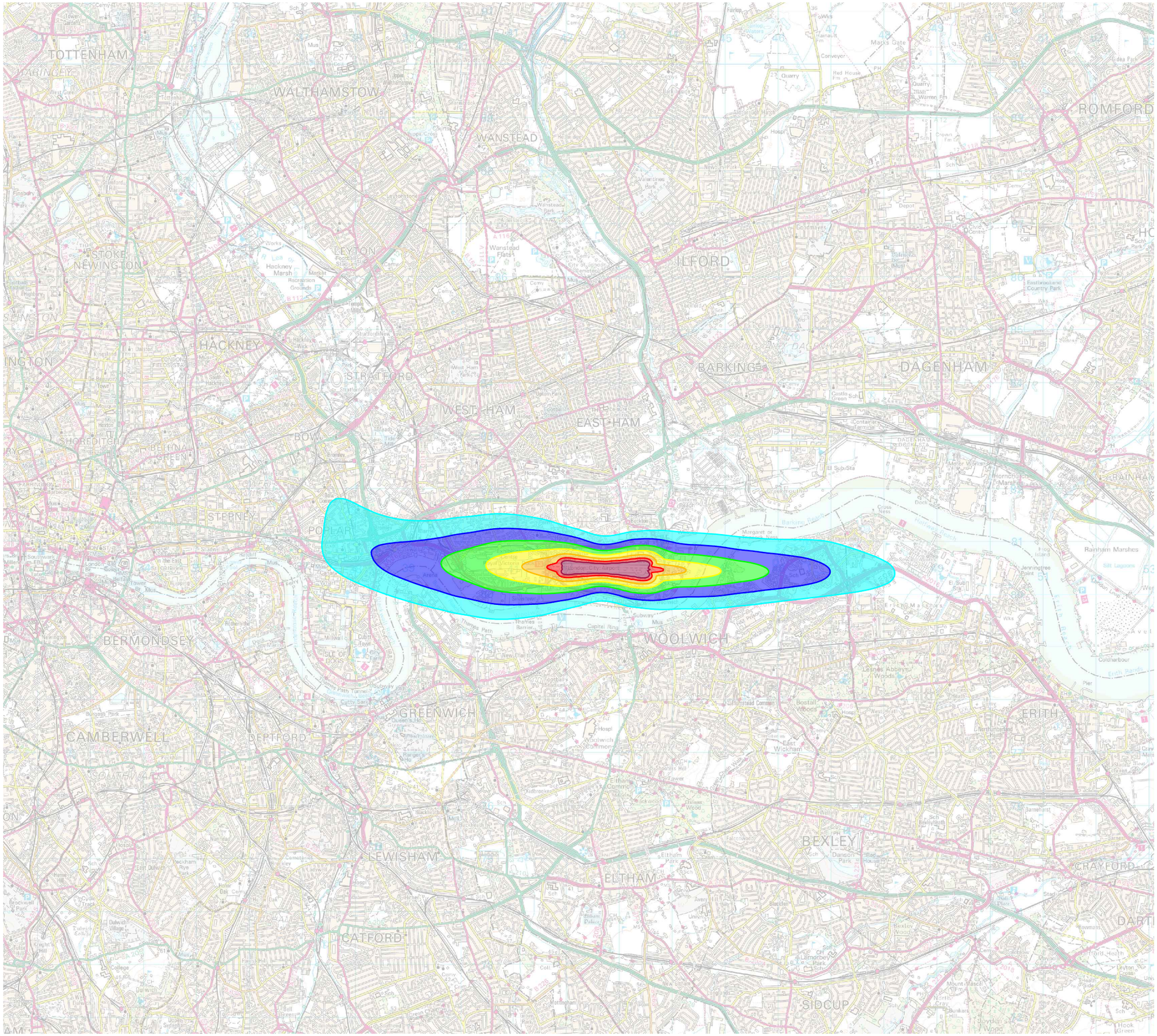
Figure 8.3.23
Average Mode Summer Weekend Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR023_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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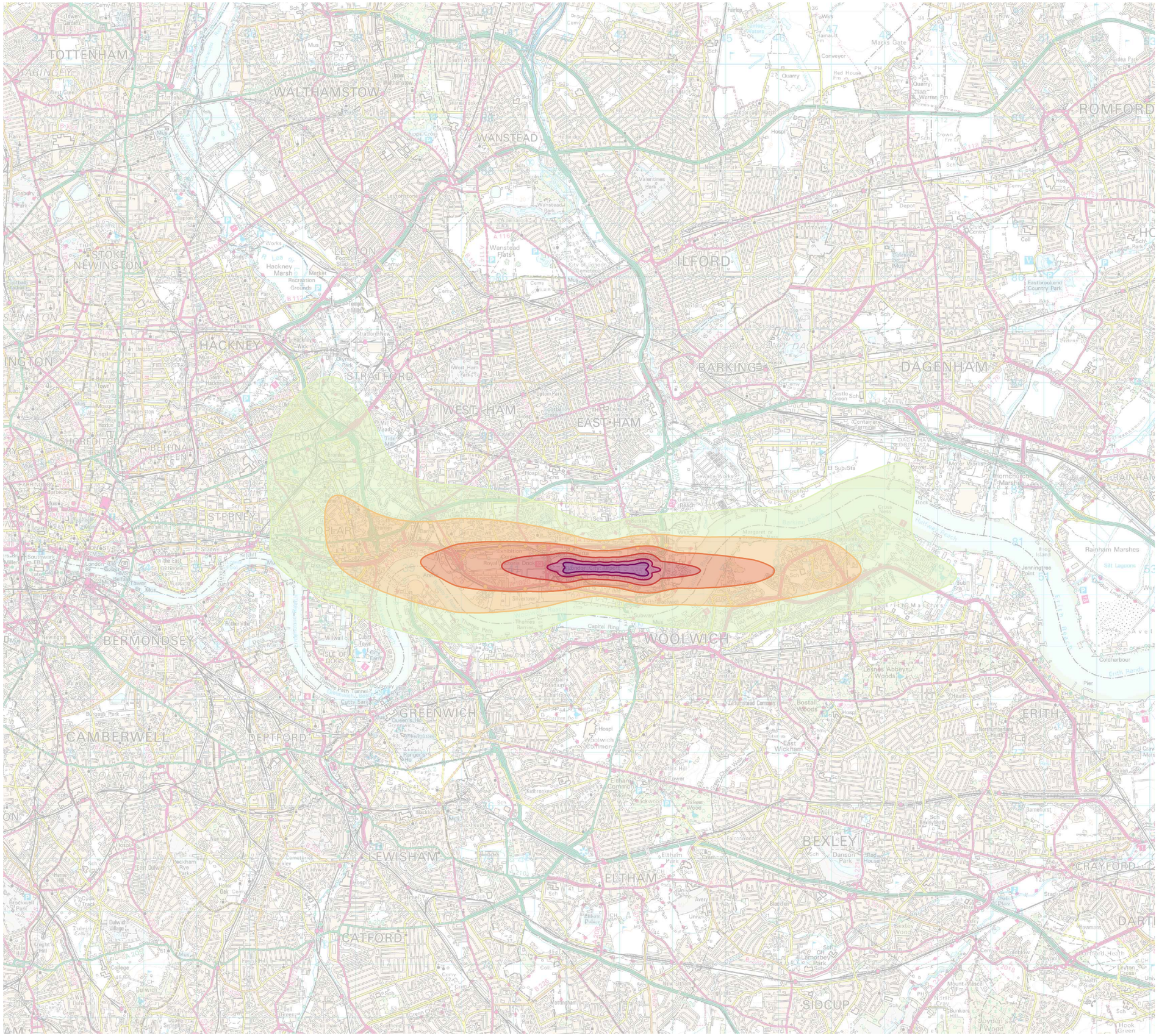
Figure 8.3.24
Average Mode Summer Weekend Noise Contours - 2031 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR024_2.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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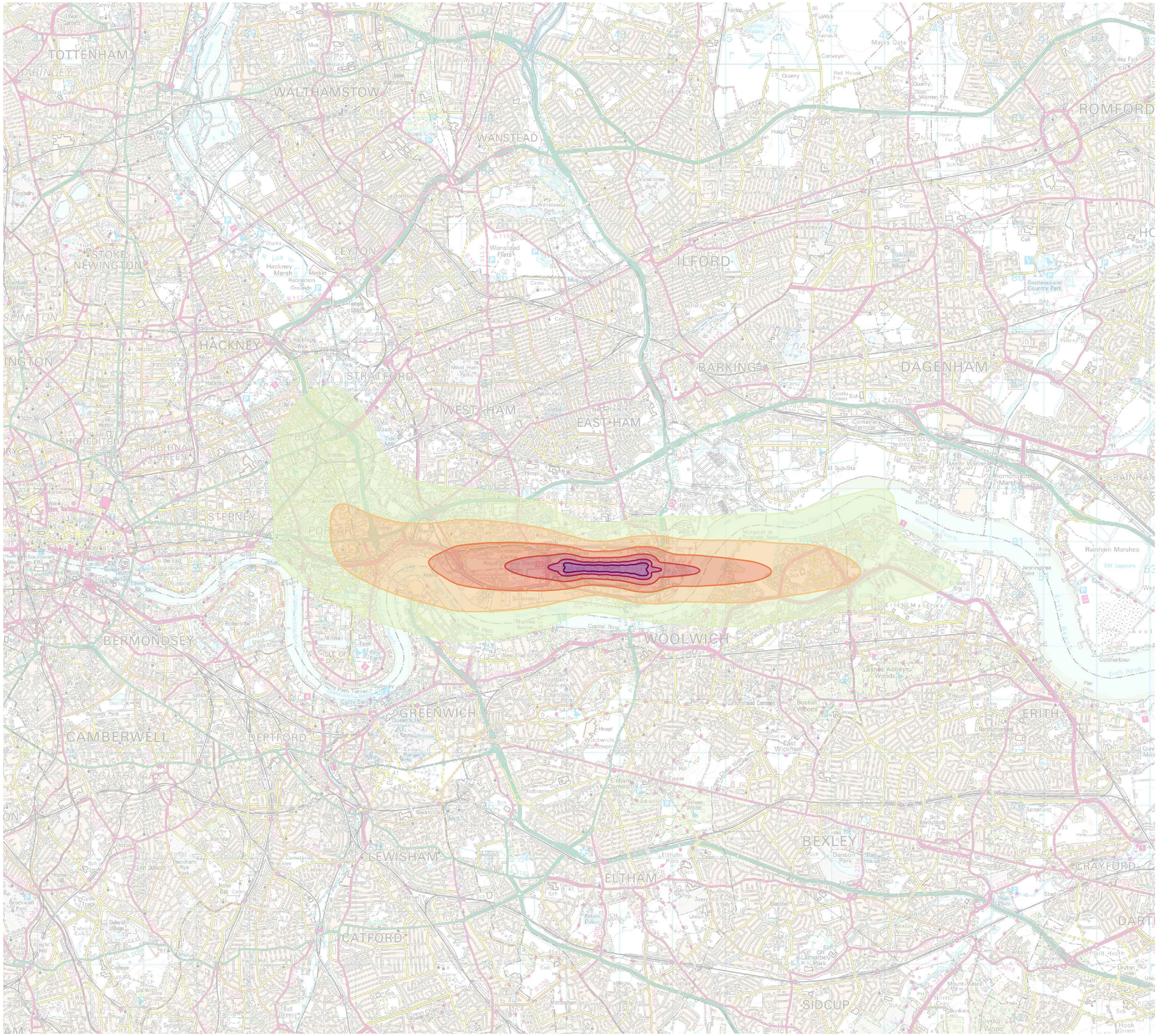
Figure 8.3.25
Average Mode Annual Lden Noise Contours
2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR025_1.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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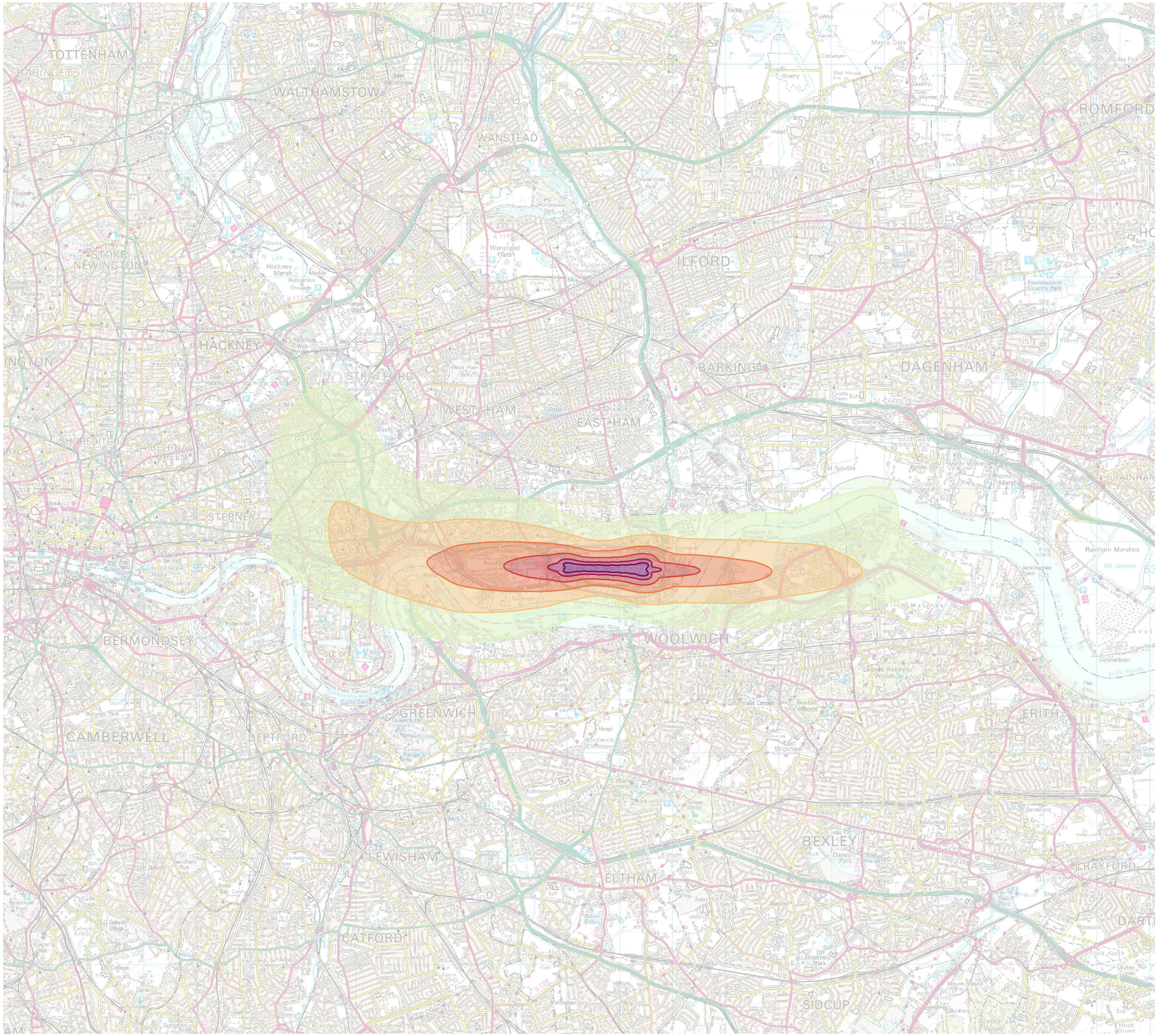
Figure 8.3.26
Average Mode Annual Lden Noise Contours
2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR026_1.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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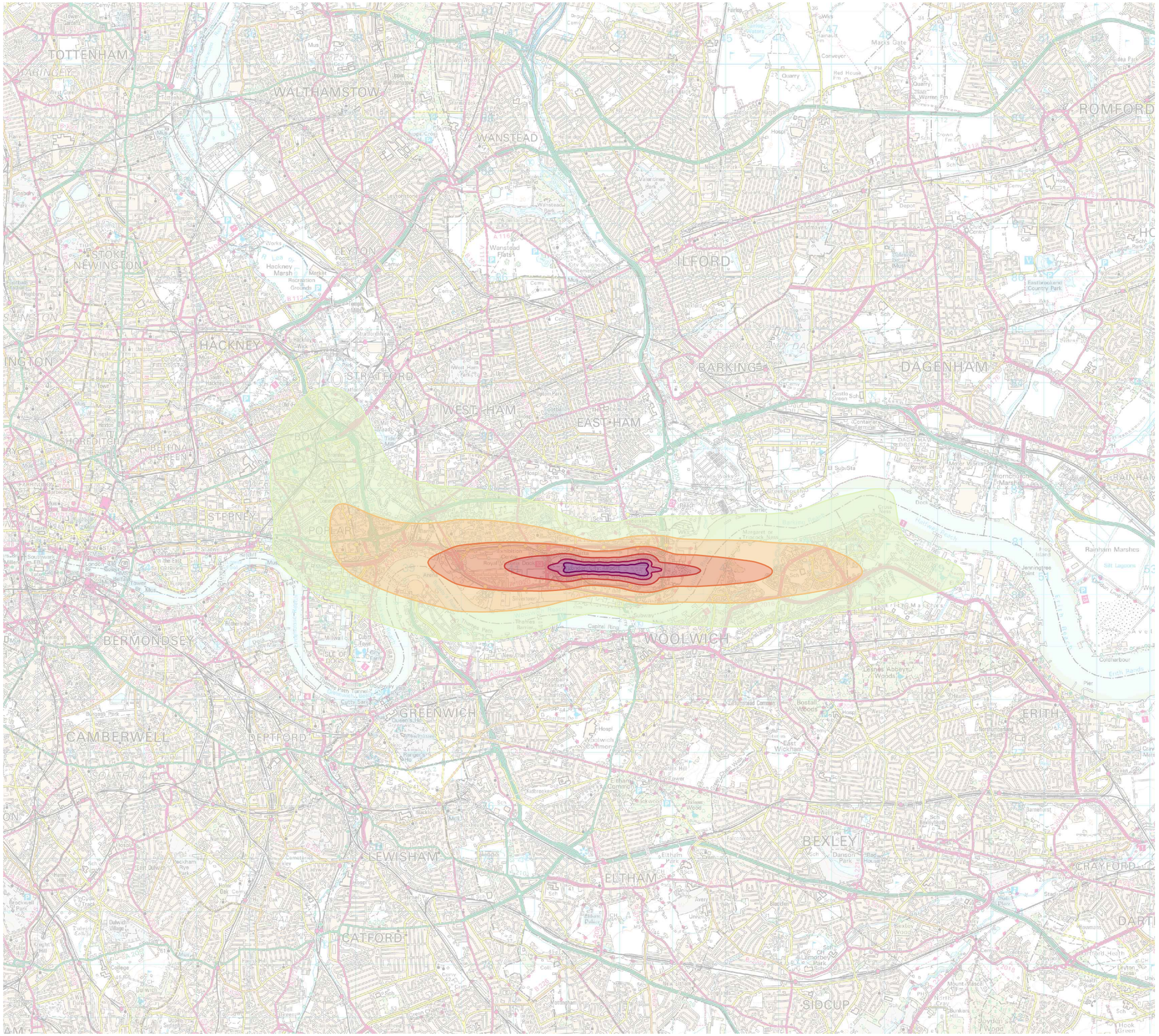
Figure 8.3.27
Average Mode Annual Lden Noise Contours
2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR027_1.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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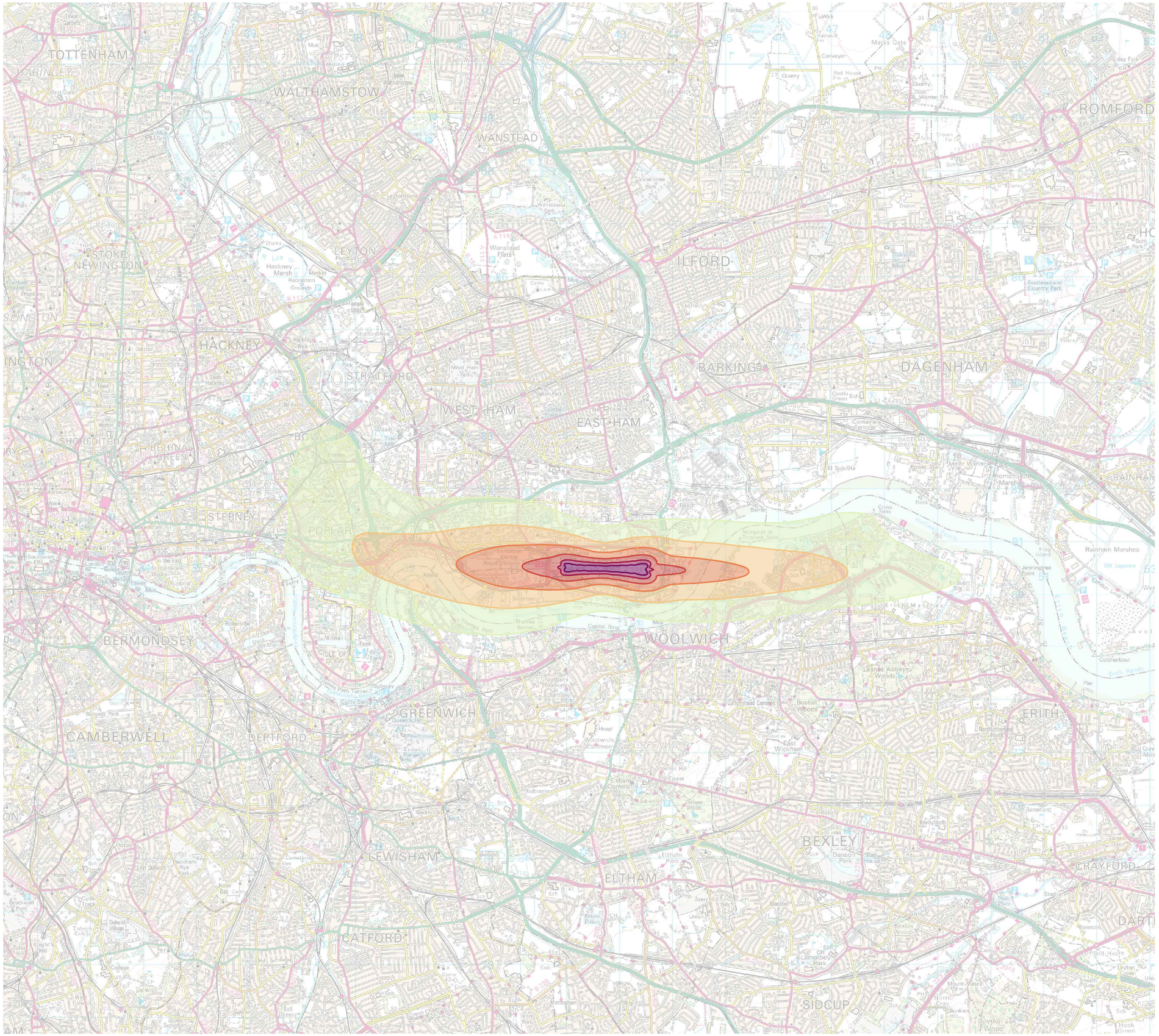
Figure 8.3.28
Average Mode Annual Lden Noise Contours
2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR028_1.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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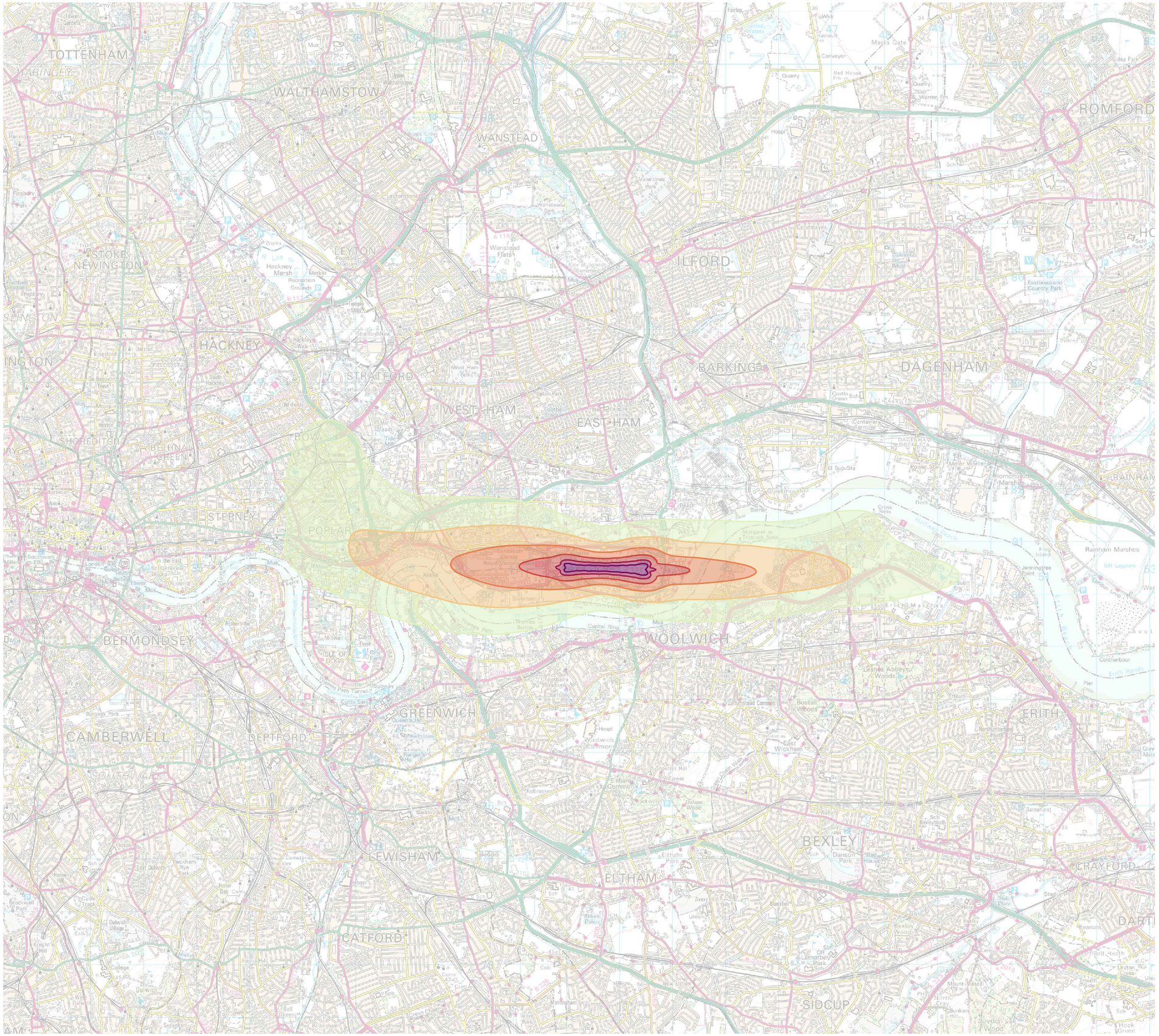
Figure 8.3.29
Average Mode Annual Lden Noise Contours
2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR029_1.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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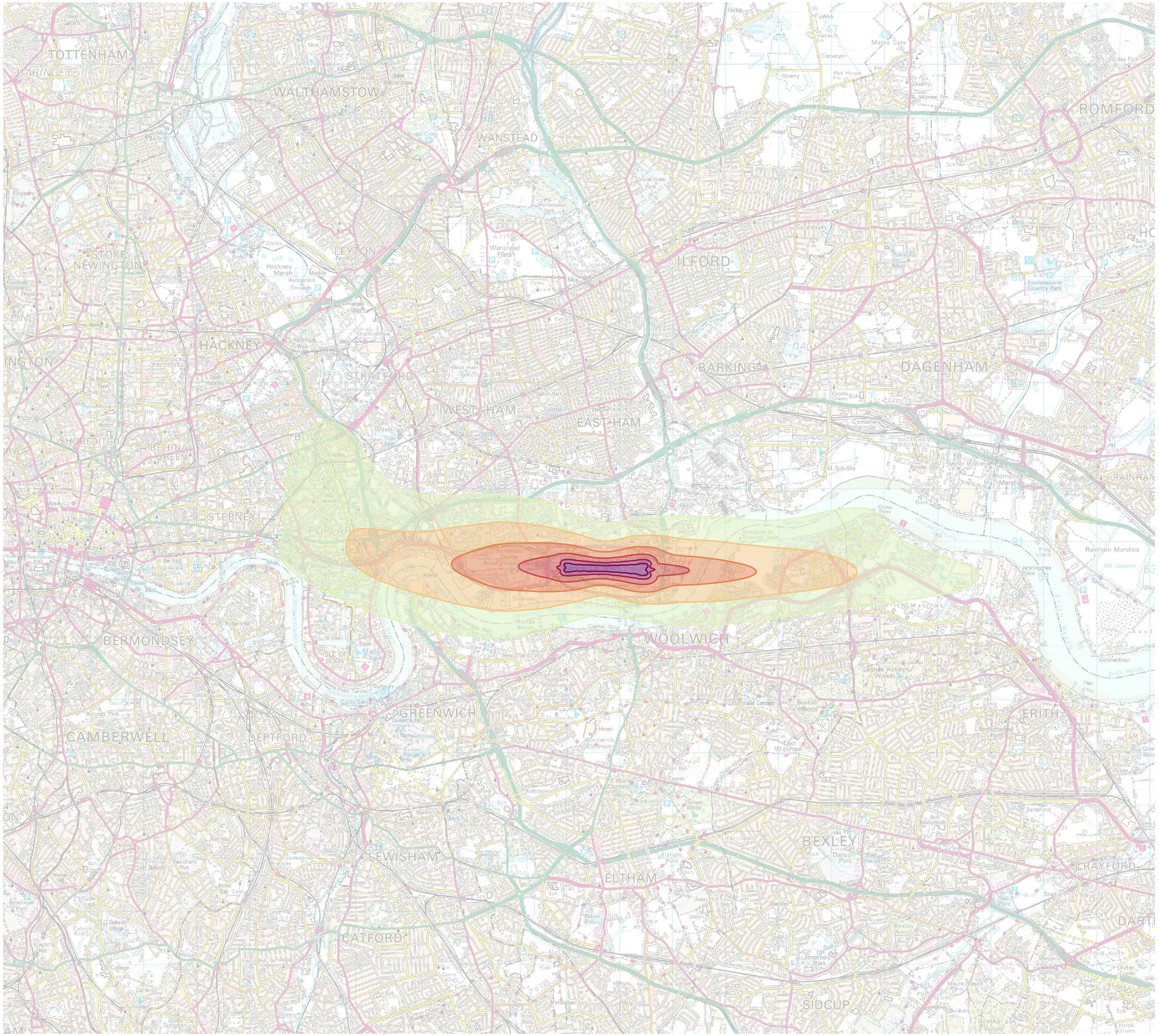
Figure 8.3.30
Average Mode Annual Lden Noise Contours
2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR030_1.0



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LEGEND:

- 50 - 54.9 dB(A) L_{den}
- 55 - 59.9 dB(A) L_{den}
- 60 - 64.9 dB(A) L_{den}
- 65 - 69.9 dB(A) L_{den}
- 70 - 74.9 dB(A) L_{den}
- 75+ dB(A) L_{den}

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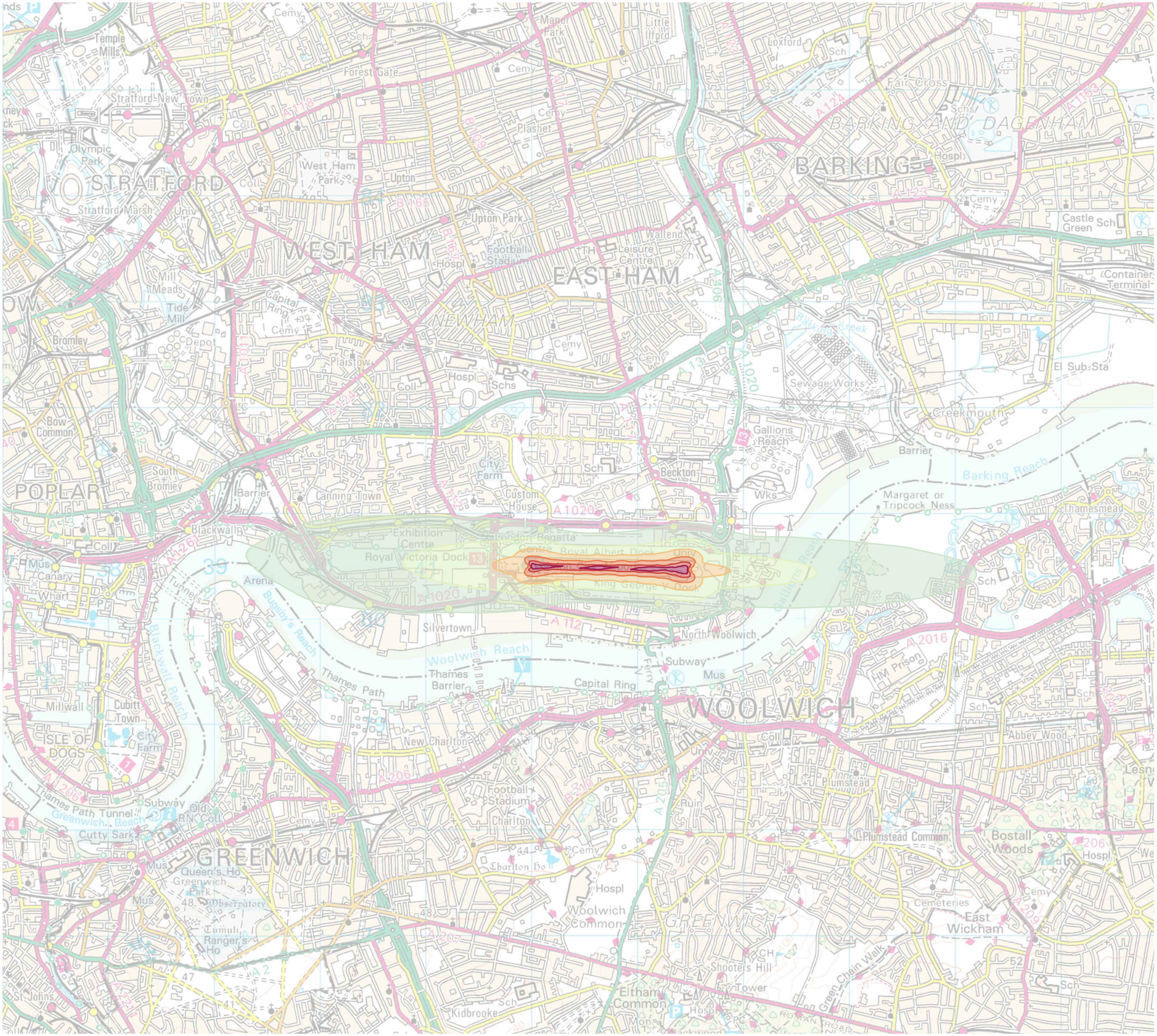
Figure 8.3.31
Average Mode Annual Lden Noise Contours
2031 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR031_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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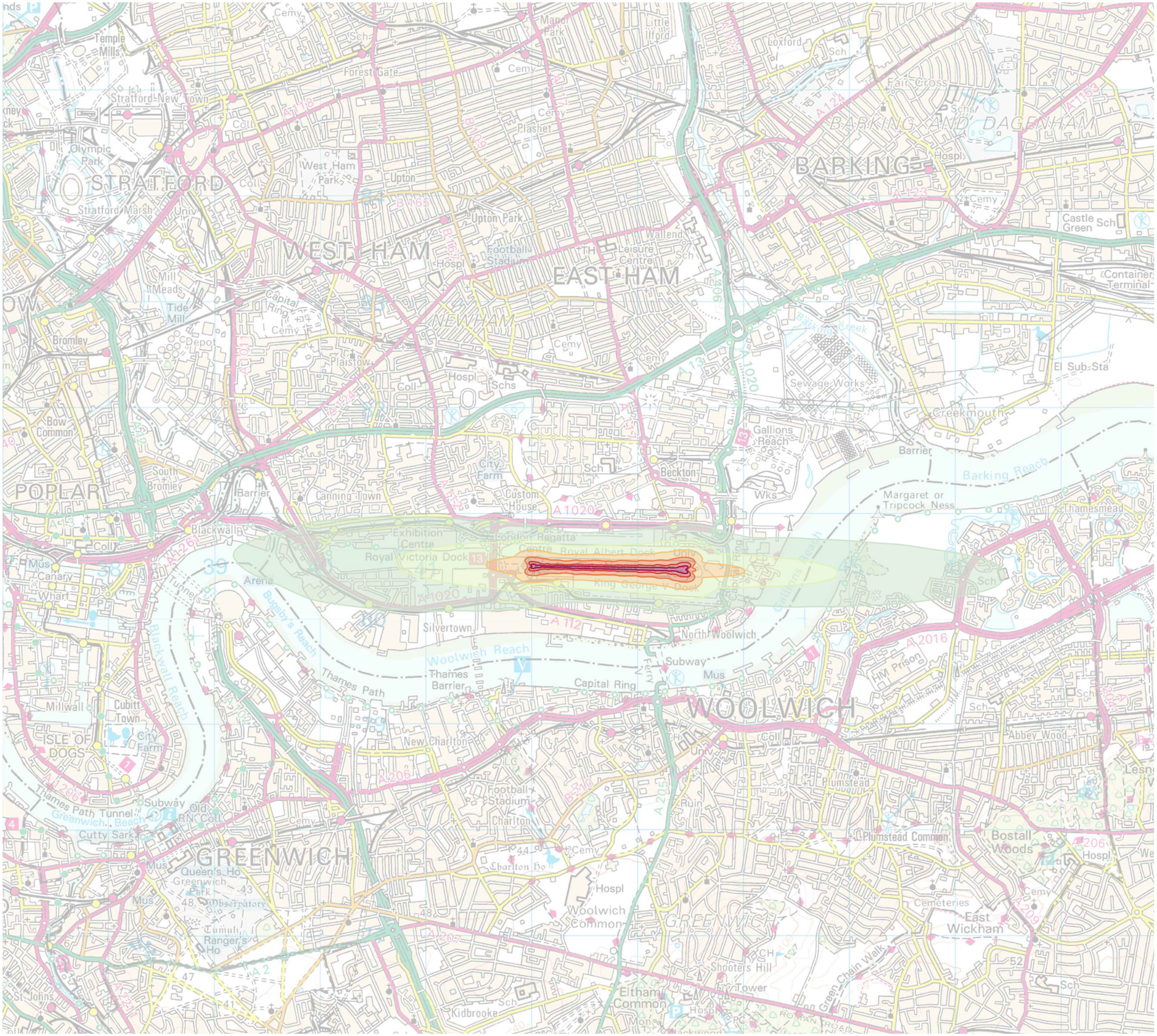
Figure 8.3.32
Average Mode Annual Lnight Noise Contours
2019 Actual

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR032_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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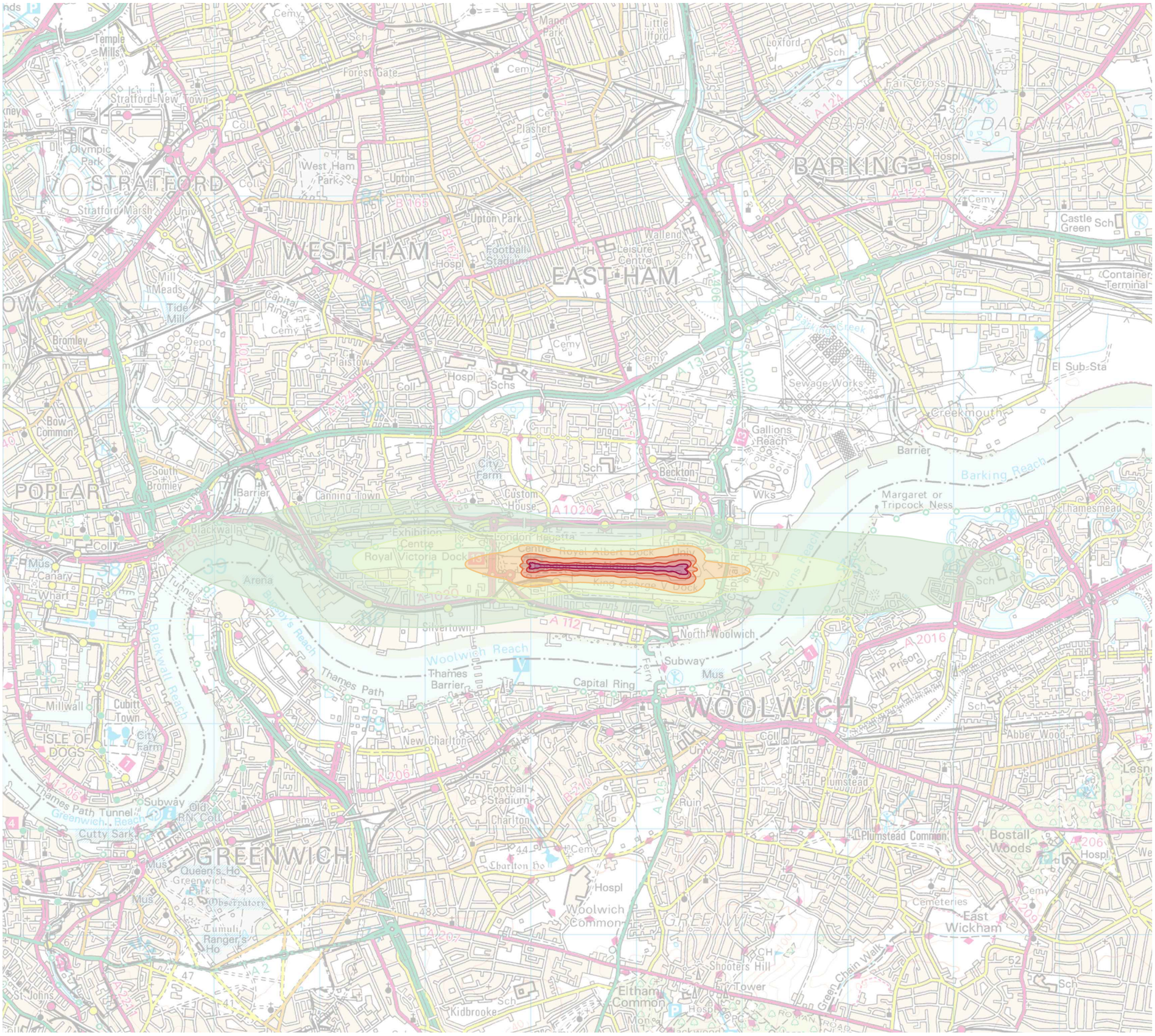
Figure 8.3.33
Average Mode Annual Lnight Noise Contours
2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR033_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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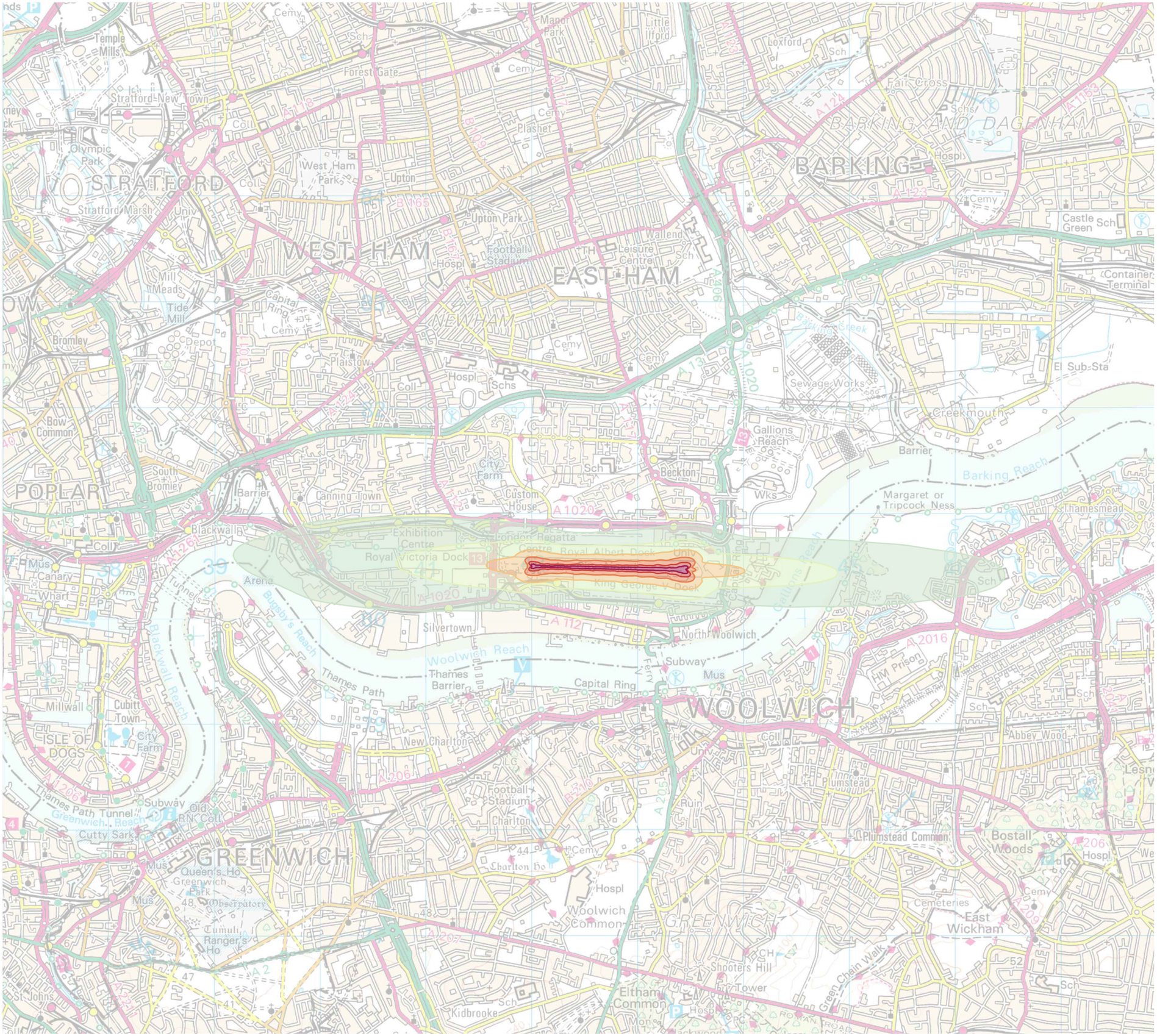
Figure 8.3.34
Average Mode Annual Lnight Noise Contours
2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR034_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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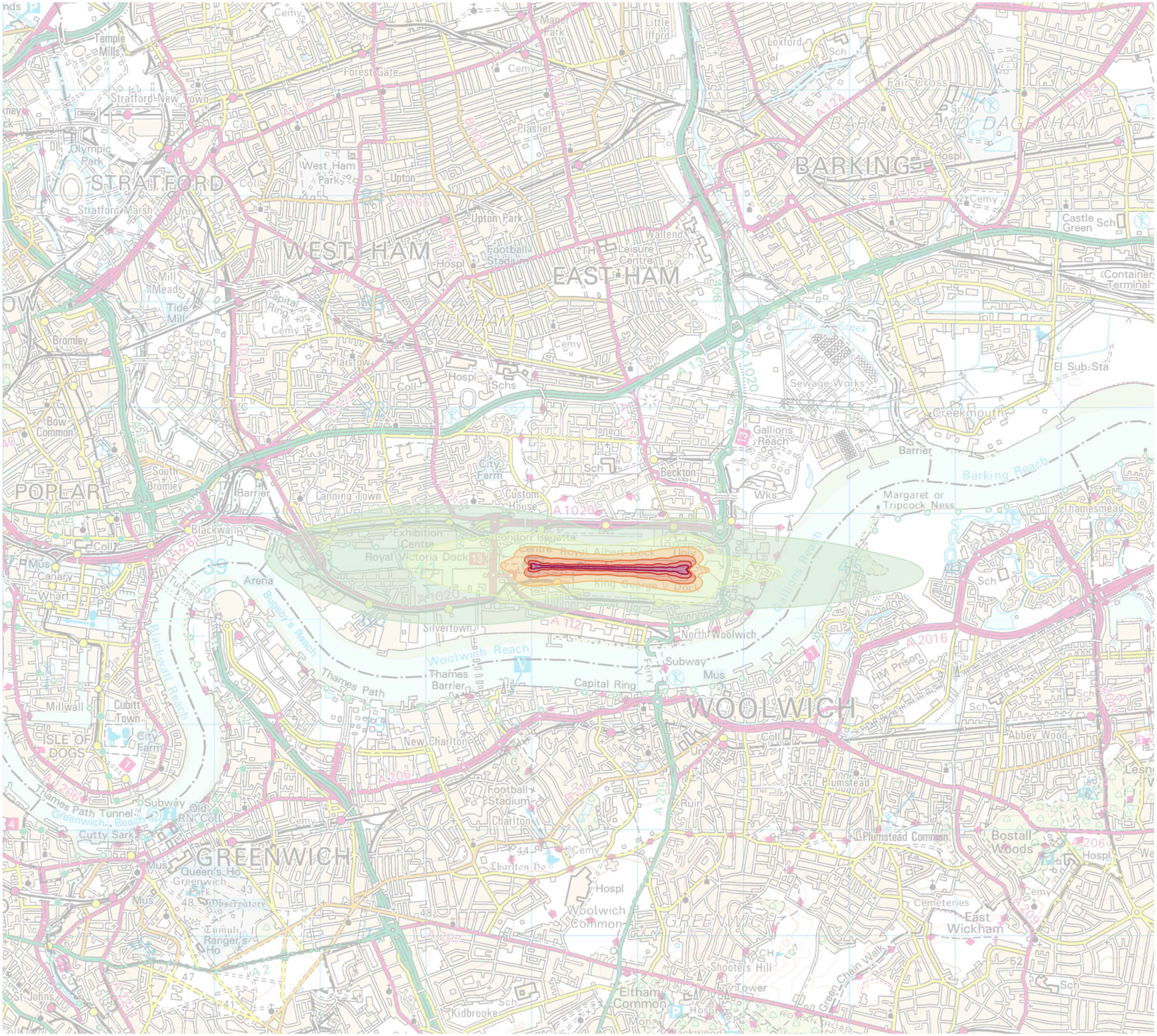
Figure 8.3.35
Average Mode Annual Lnight Noise Contours
2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR035_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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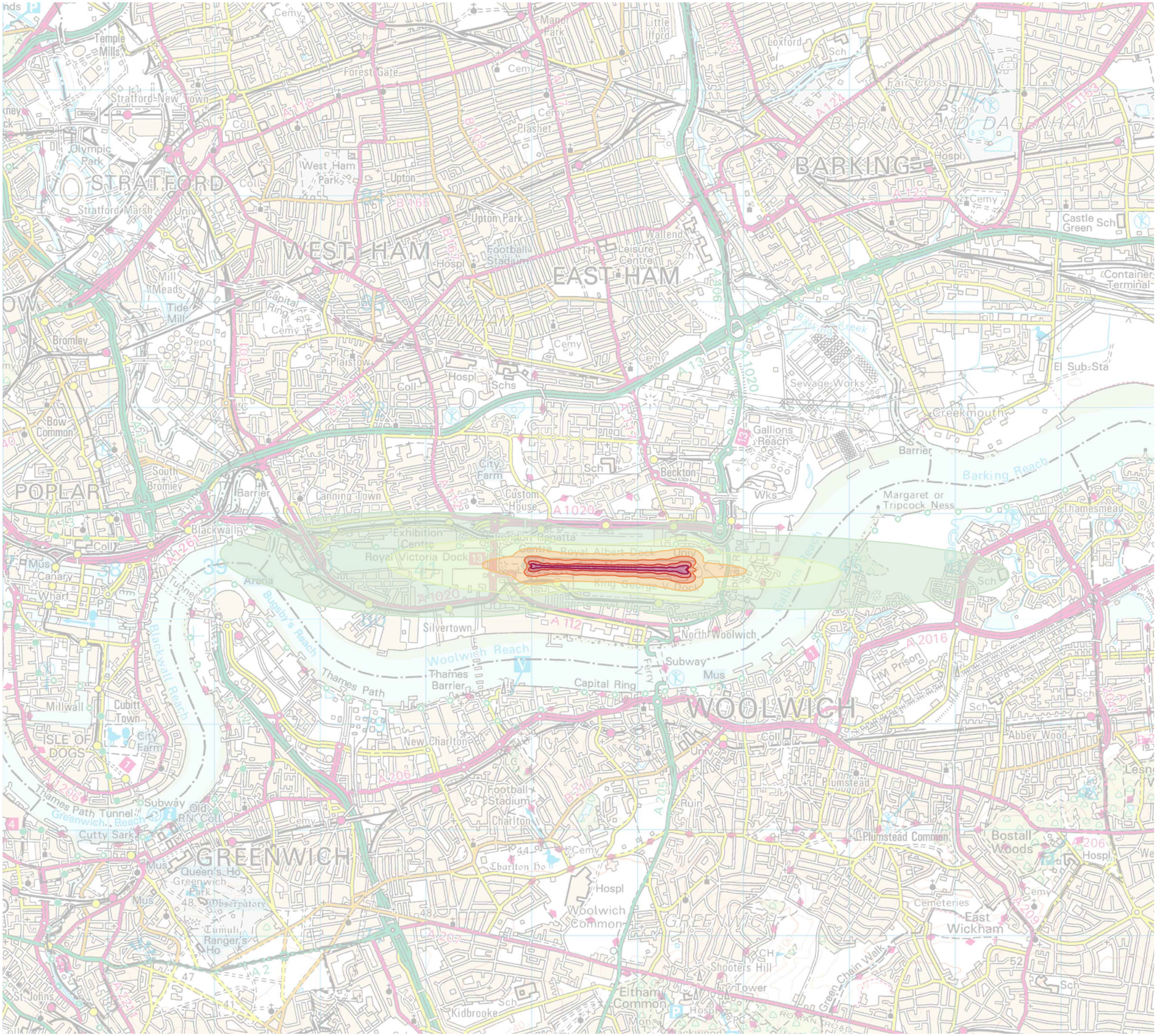
Figure 8.3.36
Average Mode Annual Lnight Noise Contours
2027 DC Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR036_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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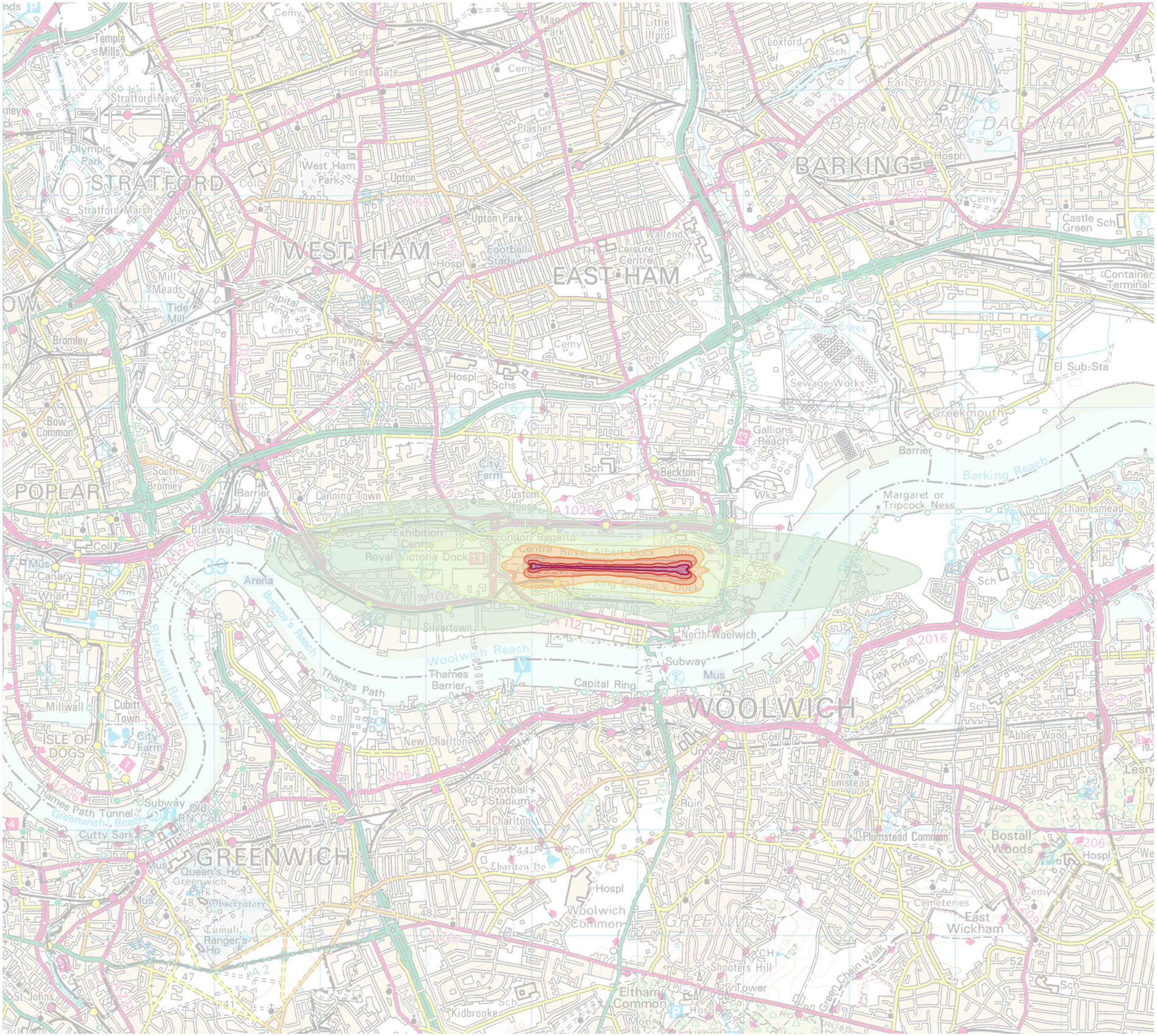
Figure 8.3.37
Average Mode Annual Lnight Noise Contours
2031 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR037_1.0



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LEGEND:

- 45 - 49.9 dB(A) L_{night}
- 50 - 54.9 dB(A) L_{night}
- 55 - 59.9 dB(A) L_{night}
- 60 - 64.9 dB(A) L_{night}
- 65 - 69.9 dB(A) L_{night}
- 70+ dB(A) L_{night}

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Figure 8.3.38
Average Mode Annual Lnight Noise Contours
2031 DC Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR038_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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Figure 8.3.39
Average Mode N65 Summer Day Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR039_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 35 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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Figure 8.3.40
Average Mode N65 Summer Day Noise Contours - 2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR040_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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Figure 8.3.41
Average Mode N65 Summer Day Noise Contours - 2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR041_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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Figure 8.3.42
Average Mode N65 Summer Day Noise Contours - 2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR042_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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Figure 8.3.43
Average Mode N65 Summer Day Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR043_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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Figure 8.3.44
Average Mode N65 Summer Day Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR044_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100 - 199 events
- N65, 200+ events

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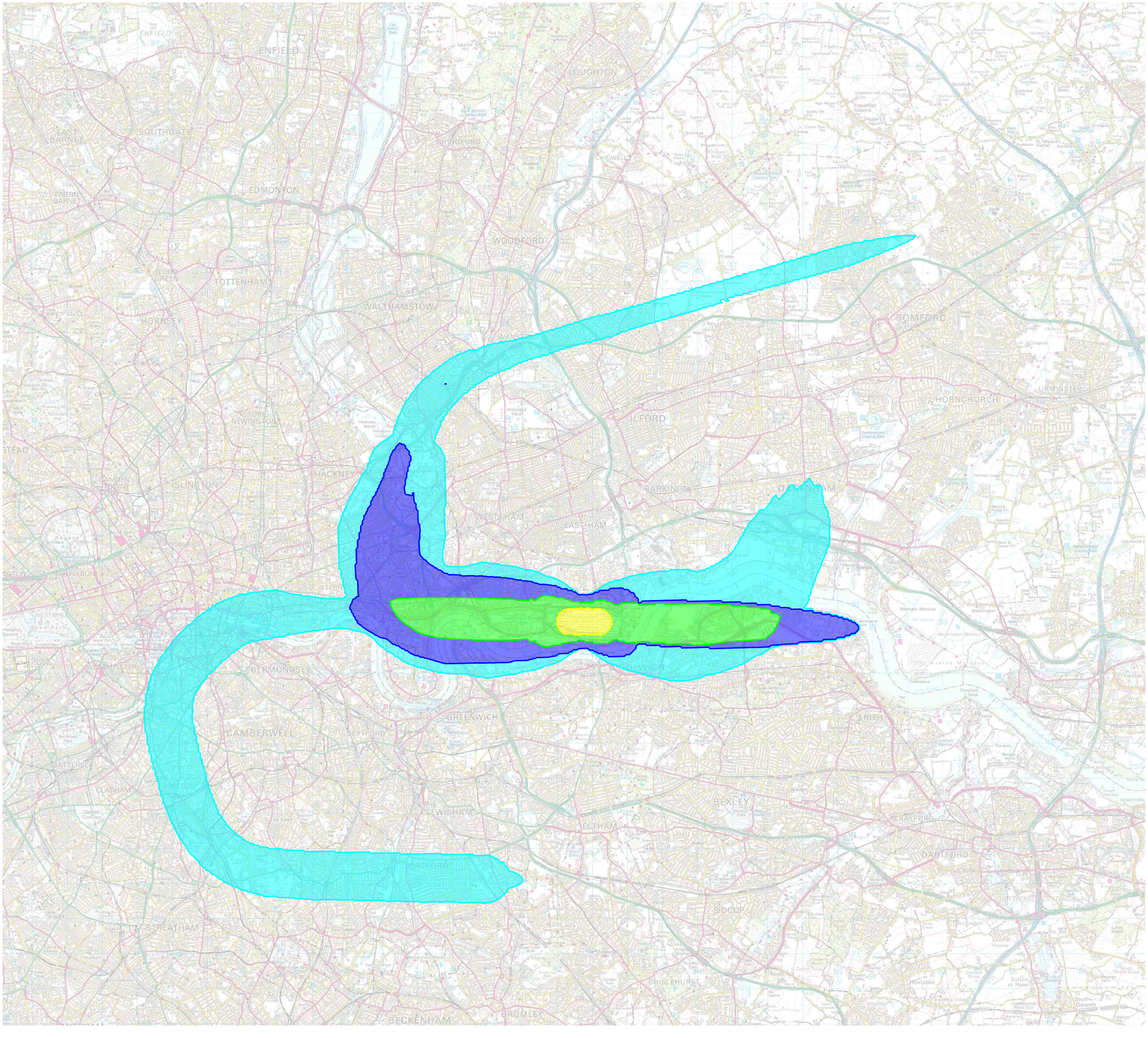
Figure 8.3.45
Average Mode N65 Summer Day Noise Contours - 2031 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR045_2.0



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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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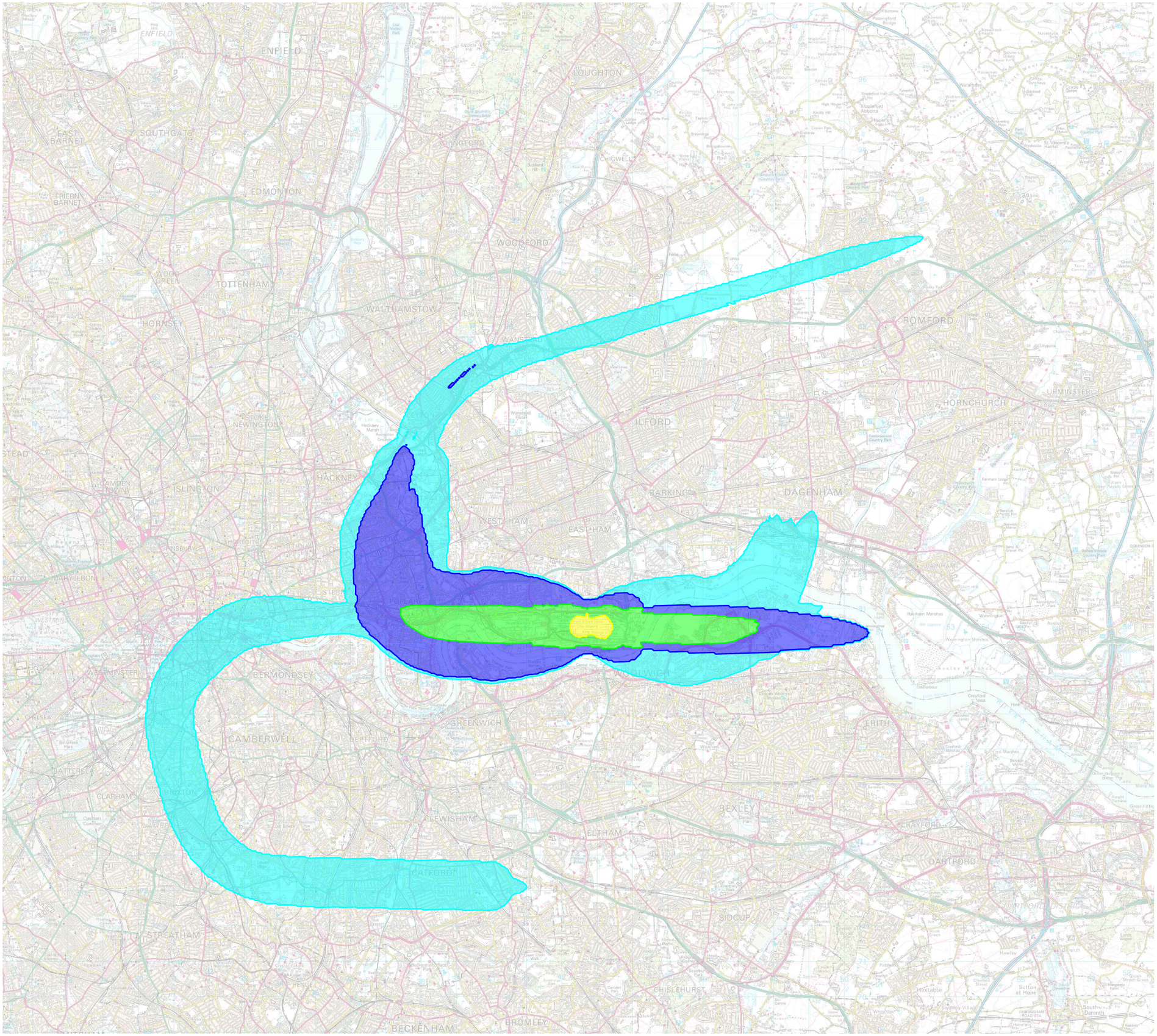
Figure 8.3.46
Average Mode N65 Weekend Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR046_1.0



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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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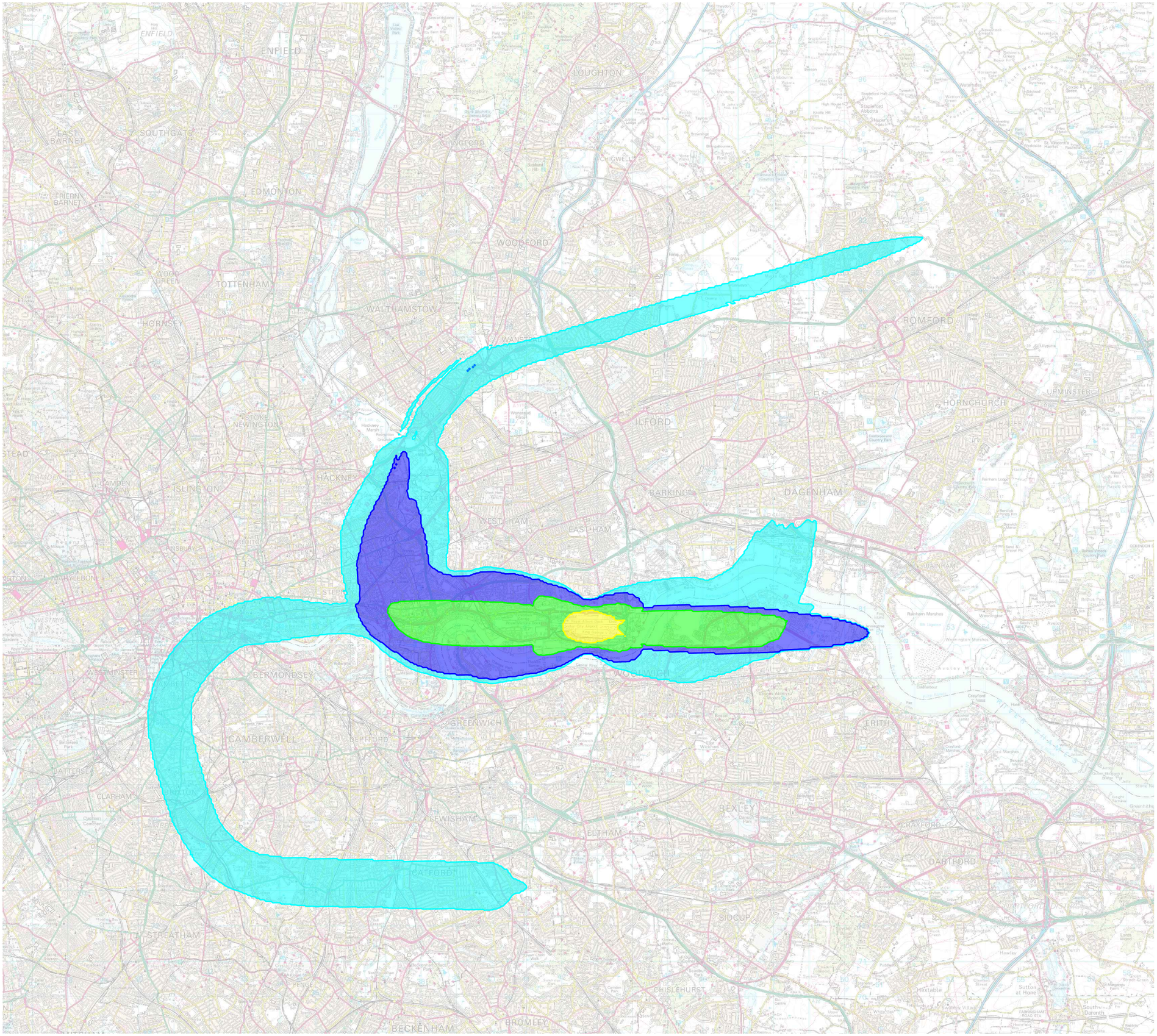
Figure 8.3.47
Average Mode N65 Weekend Noise Contours - 2025 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR047_1.0



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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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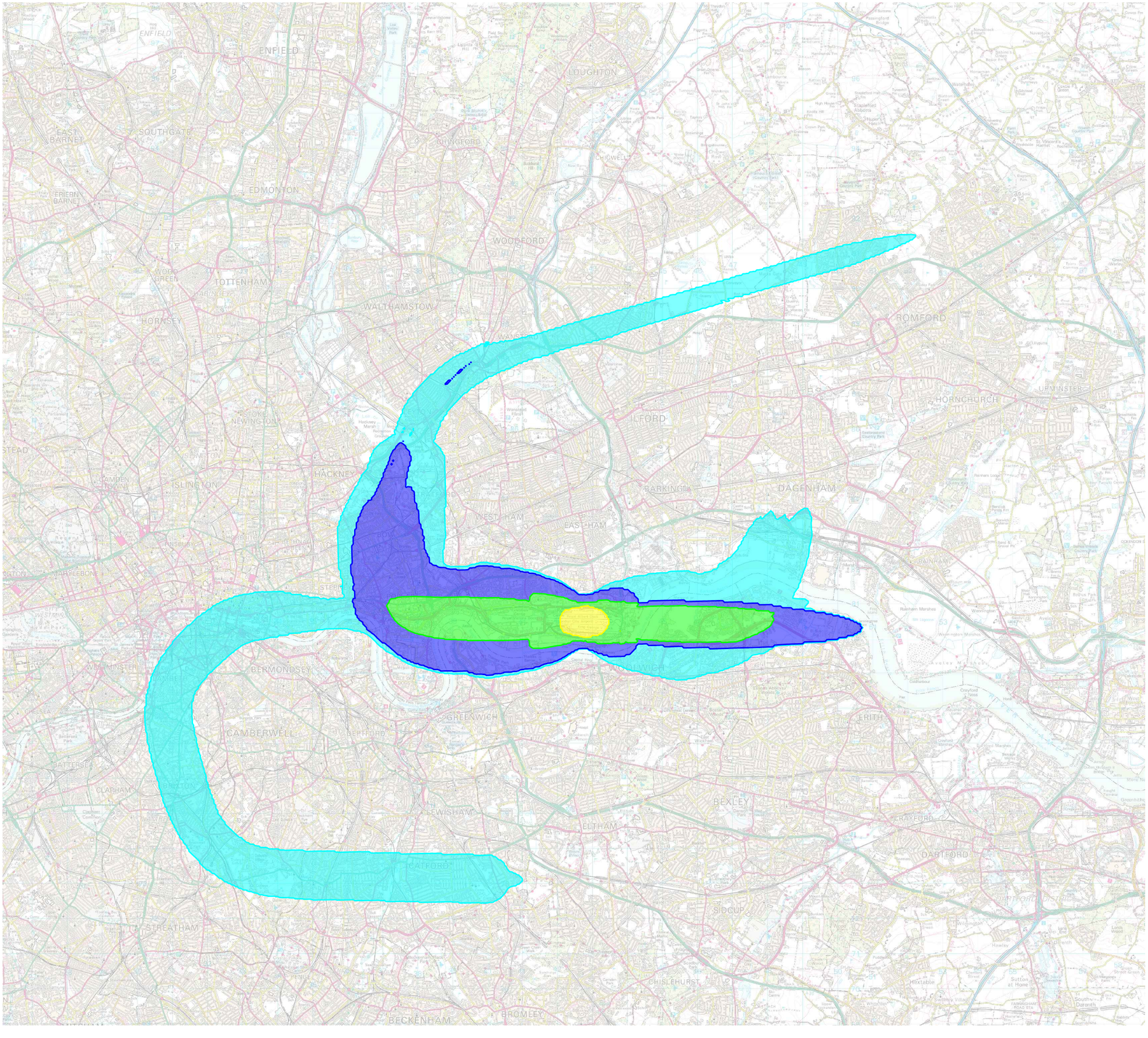
Figure 8.3.48
Average Mode N65 Weekend Noise Contours - 2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR048_1.0



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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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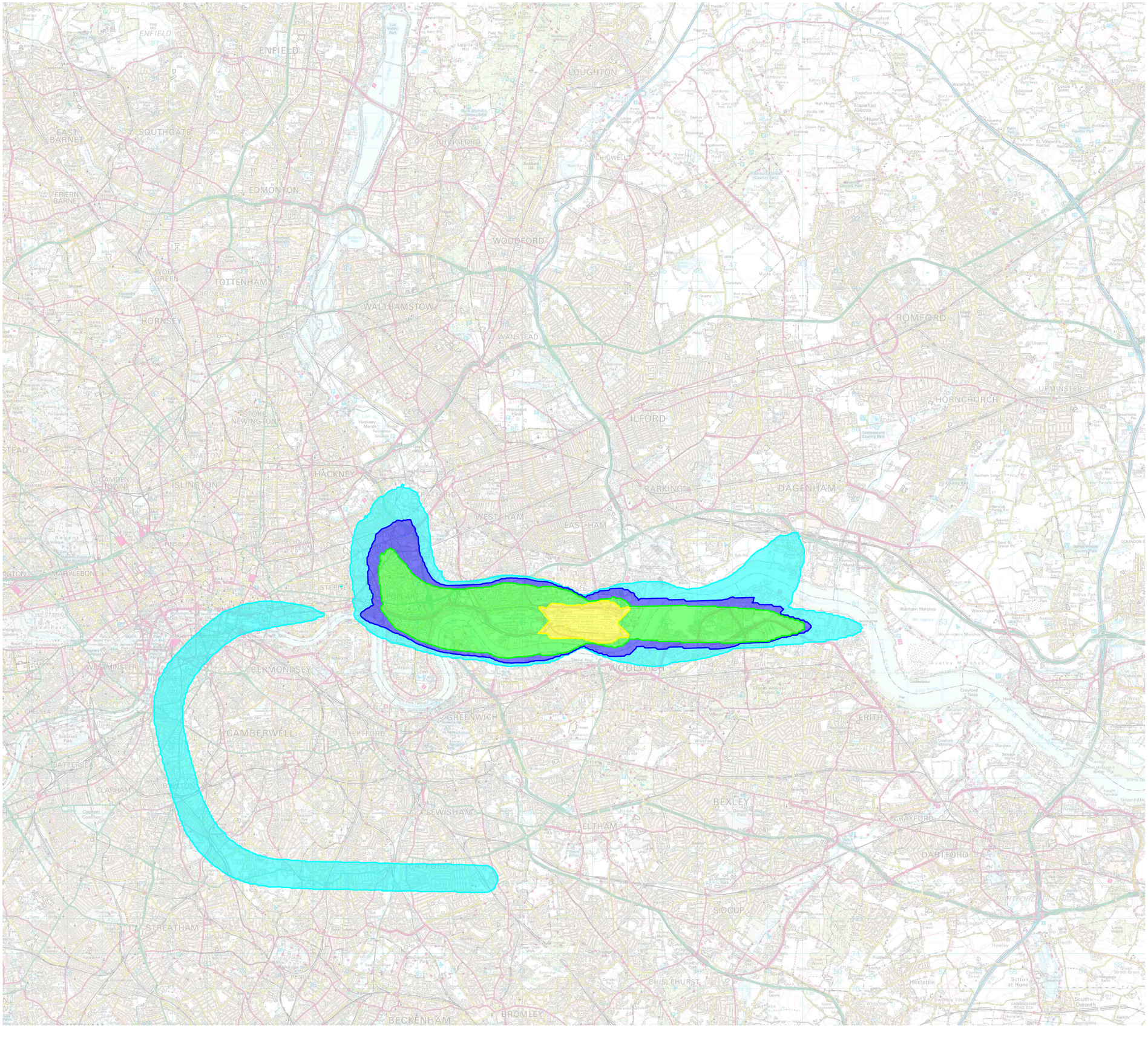
Figure 8.3.49
Average Mode N65 Weekend Noise Contours - 2027 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR049_1.0



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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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Figure 8.3.50
Average Mode N65 Weekend Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR050_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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Figure 8.3.51
Average Mode N65 Weekend Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR051_1.0

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LEGEND:

- N65, 10 - 24 events
- N65, 25 - 49 events
- N65, 50 - 99 events
- N65, 100+ events

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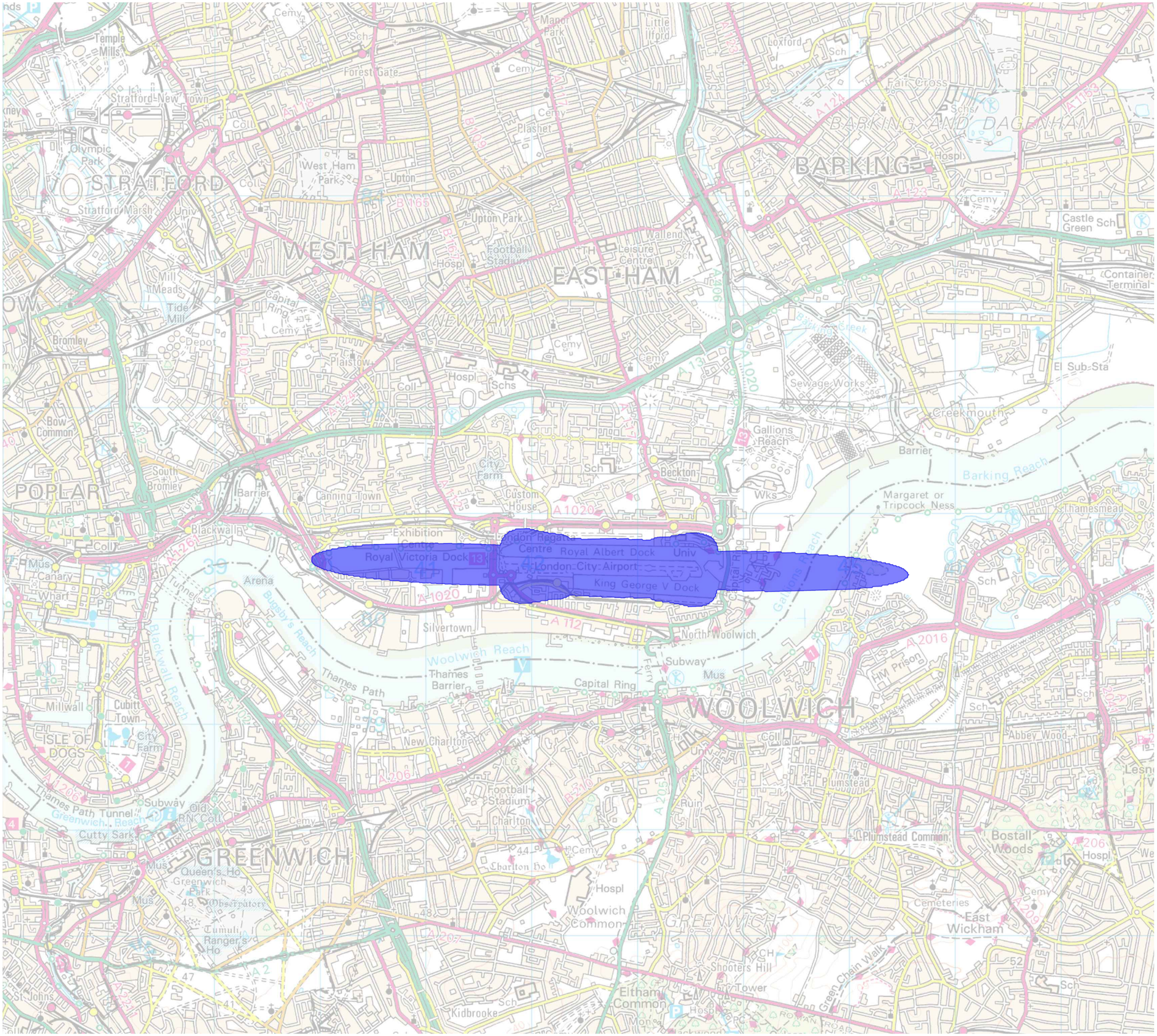
Figure 8.3.52
Average Mode N65 Weekend Noise Contours - 2031 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR052_2.0



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LEGEND:

80 dB LASmax

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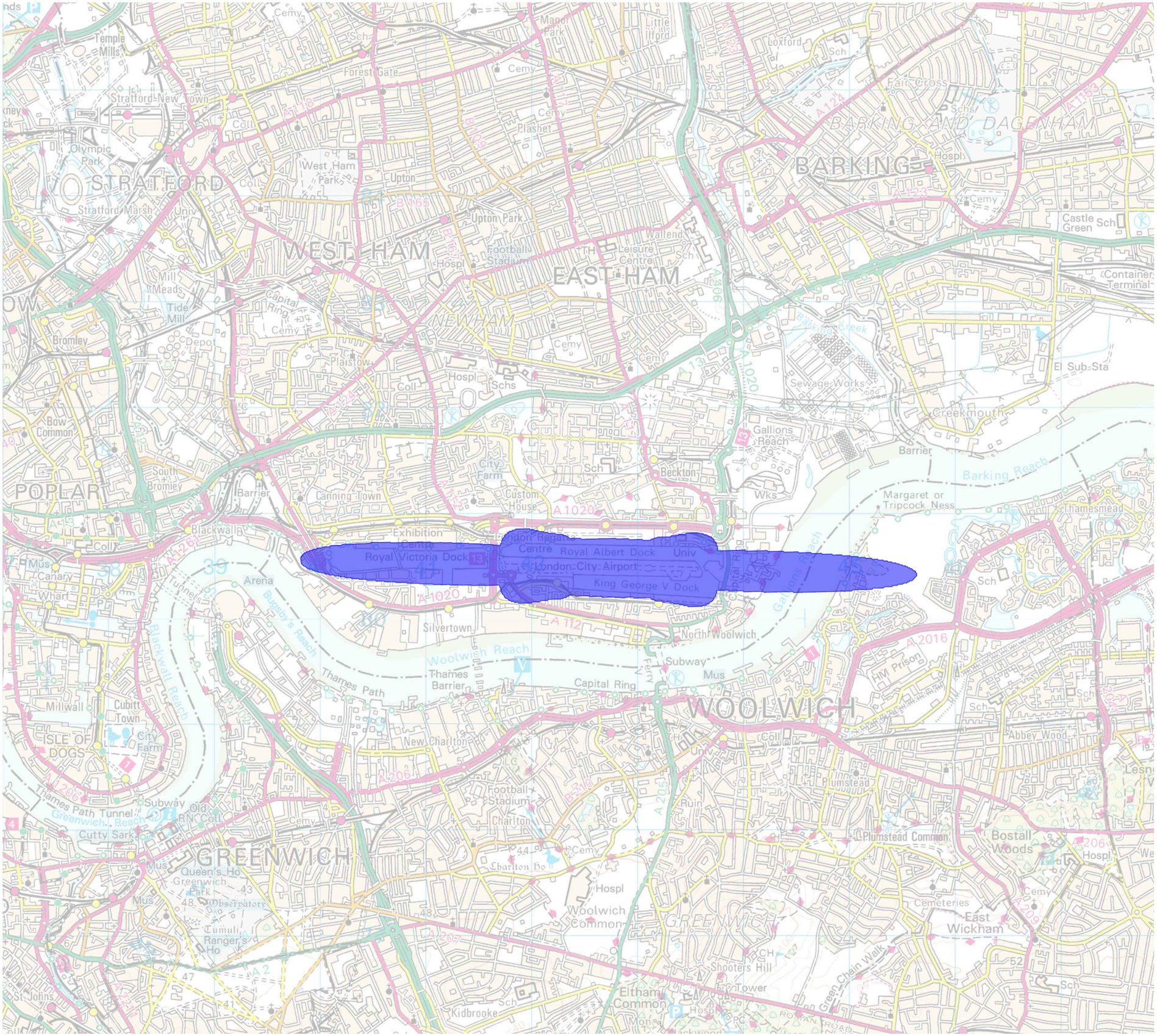
Figure 8.3.53
80 dB LASmax Once Per Night Average Mode Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR053_1.0



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LEGEND:

80 dB LASmax

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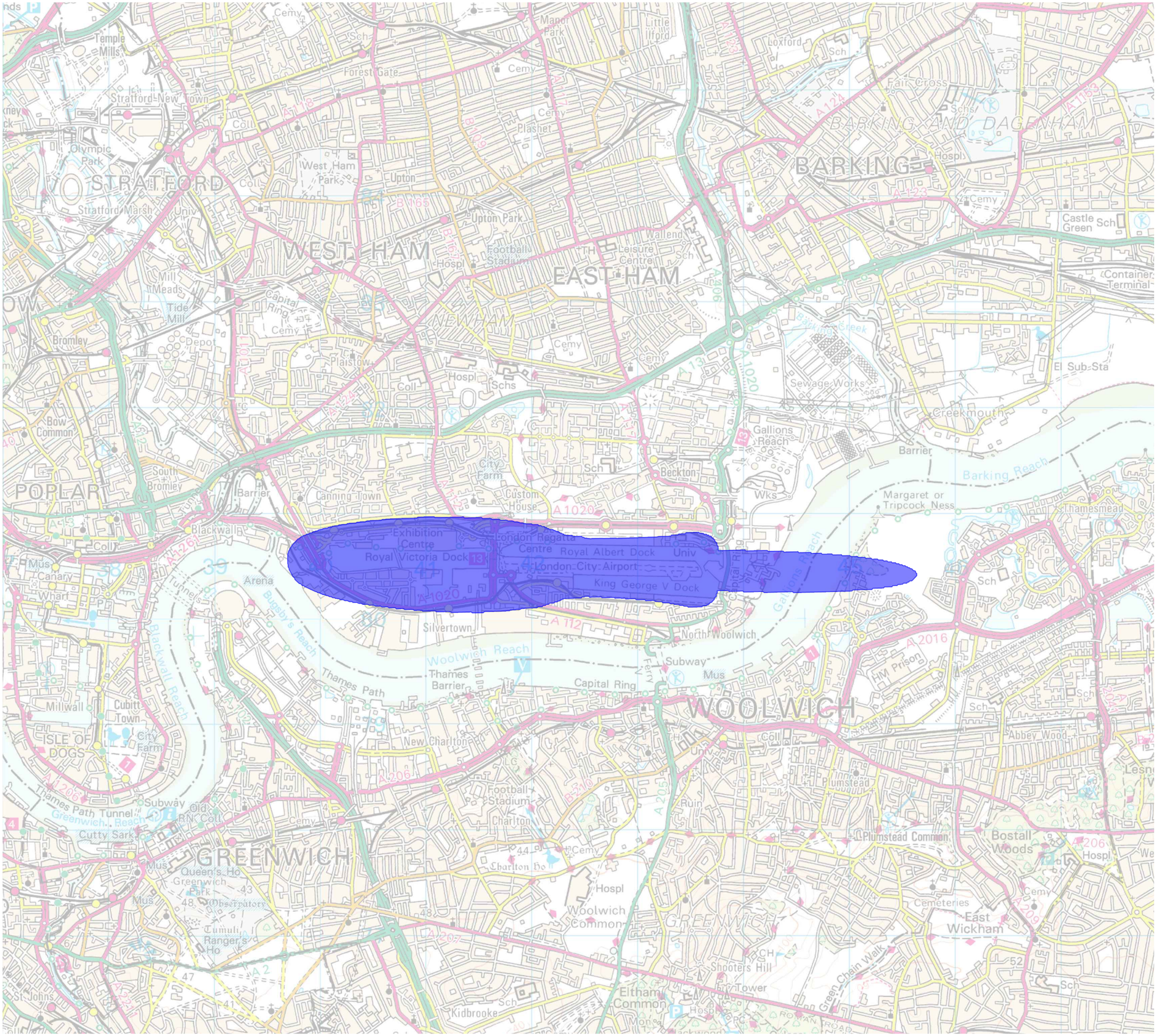
Figure 8.3.54
80 dB LASmax Once Per Night Average Mode Noise Contours - 2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR054_1.0



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LEGEND:

80 dB LASmax

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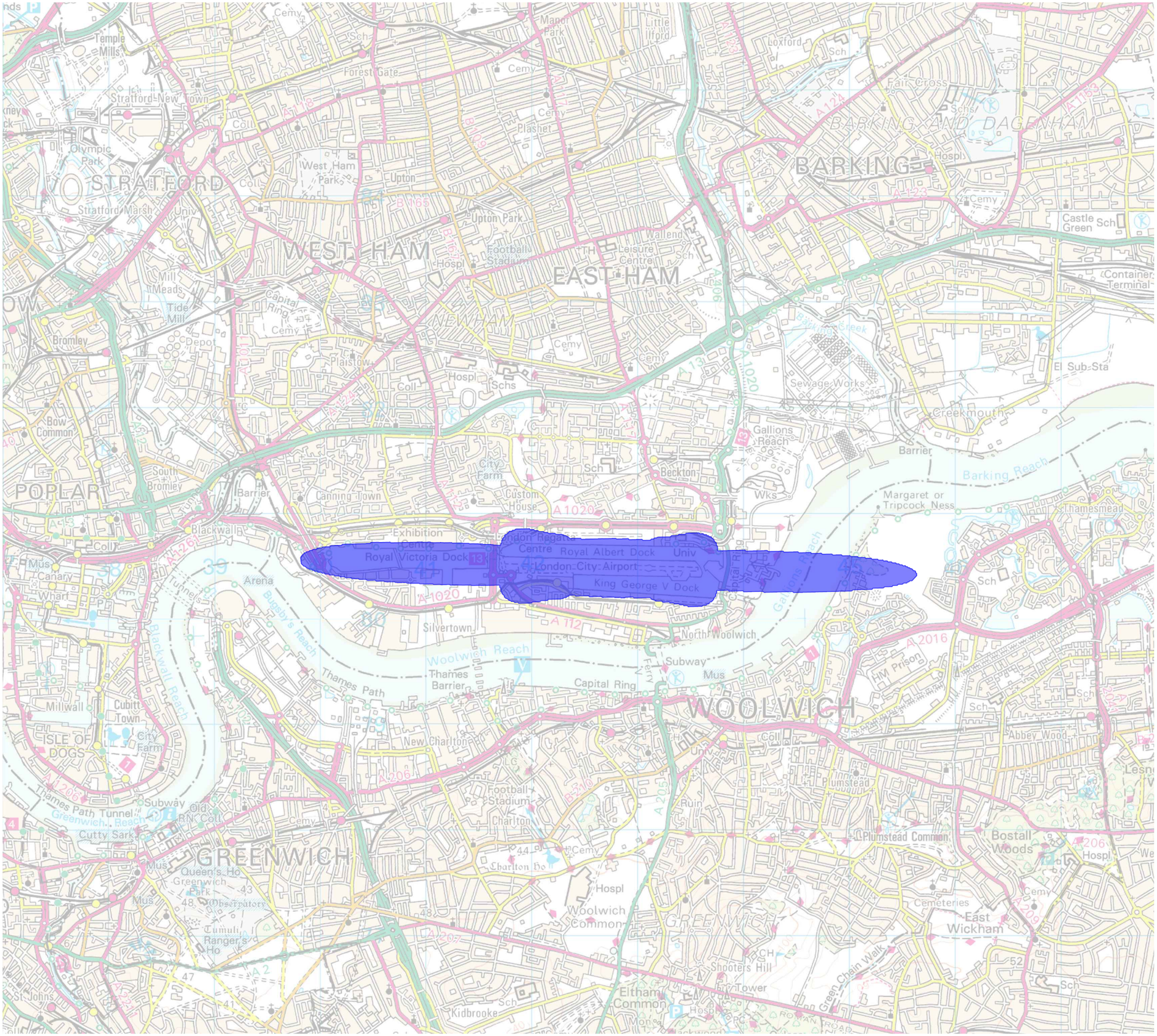
Figure 8.3.55
80 dB LASmax Once Per Night Average Mode Noise Contours - 2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR055_1.0



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LEGEND:

80 dB LASmax

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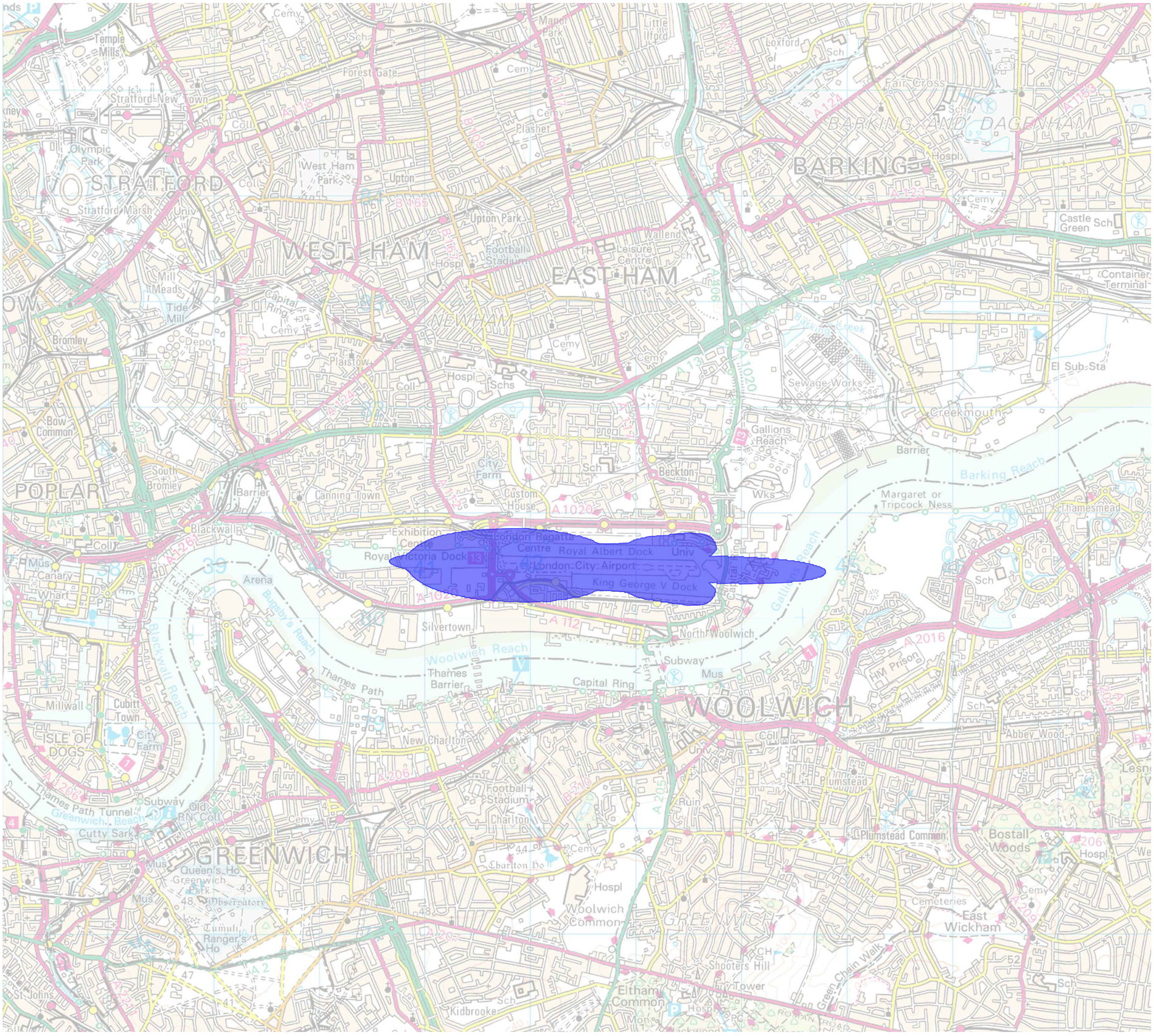
Figure 8.3.56
80 dB LASmax Once Per Night Average Mode Noise Contours - 2027 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR056_1.0



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LEGEND:

80 dB LASmax

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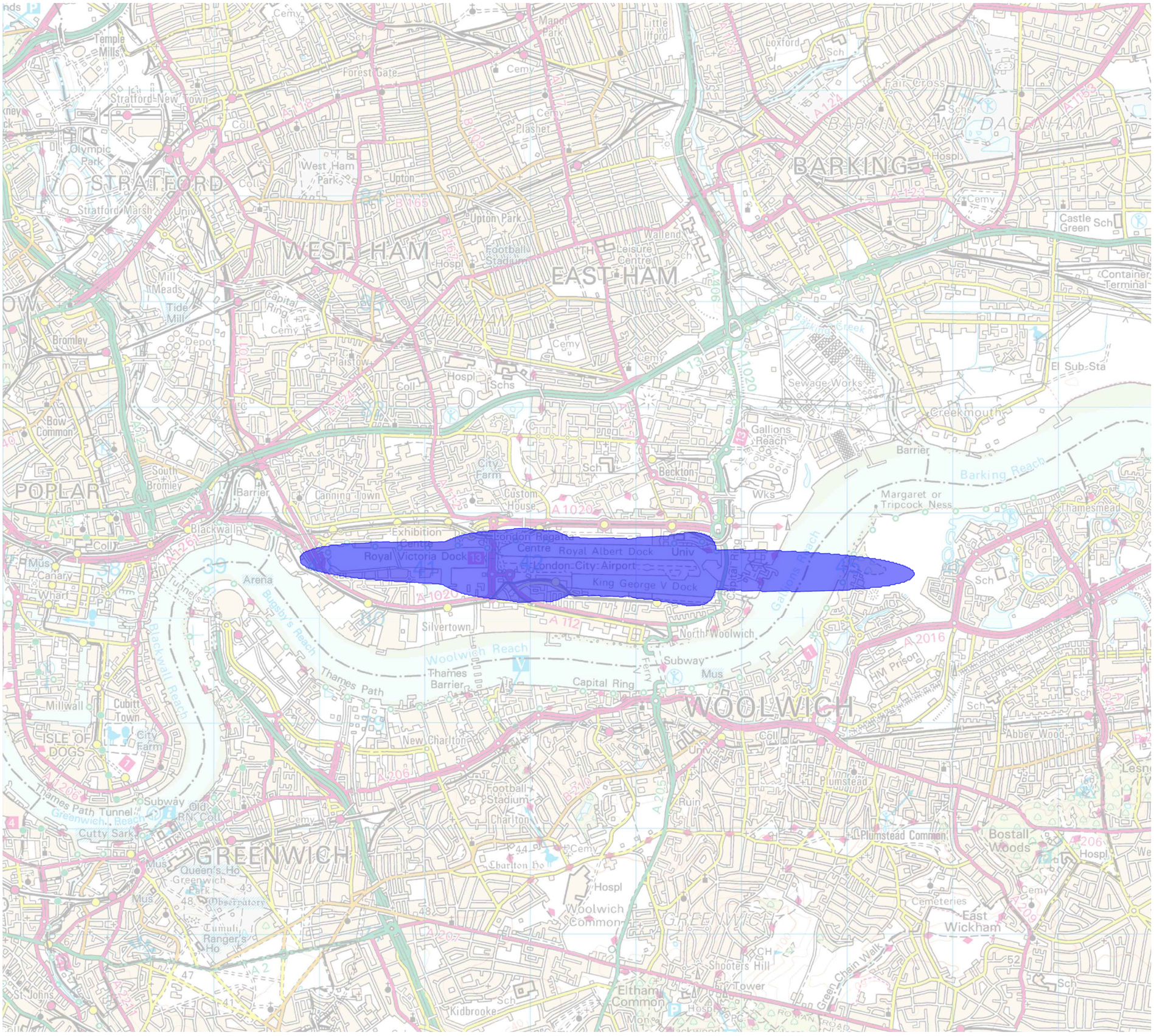
Figure 8.3.57
80 dB LASmax Once Per Night Average Mode Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR057_1.0



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LEGEND:

80 dB LASmax

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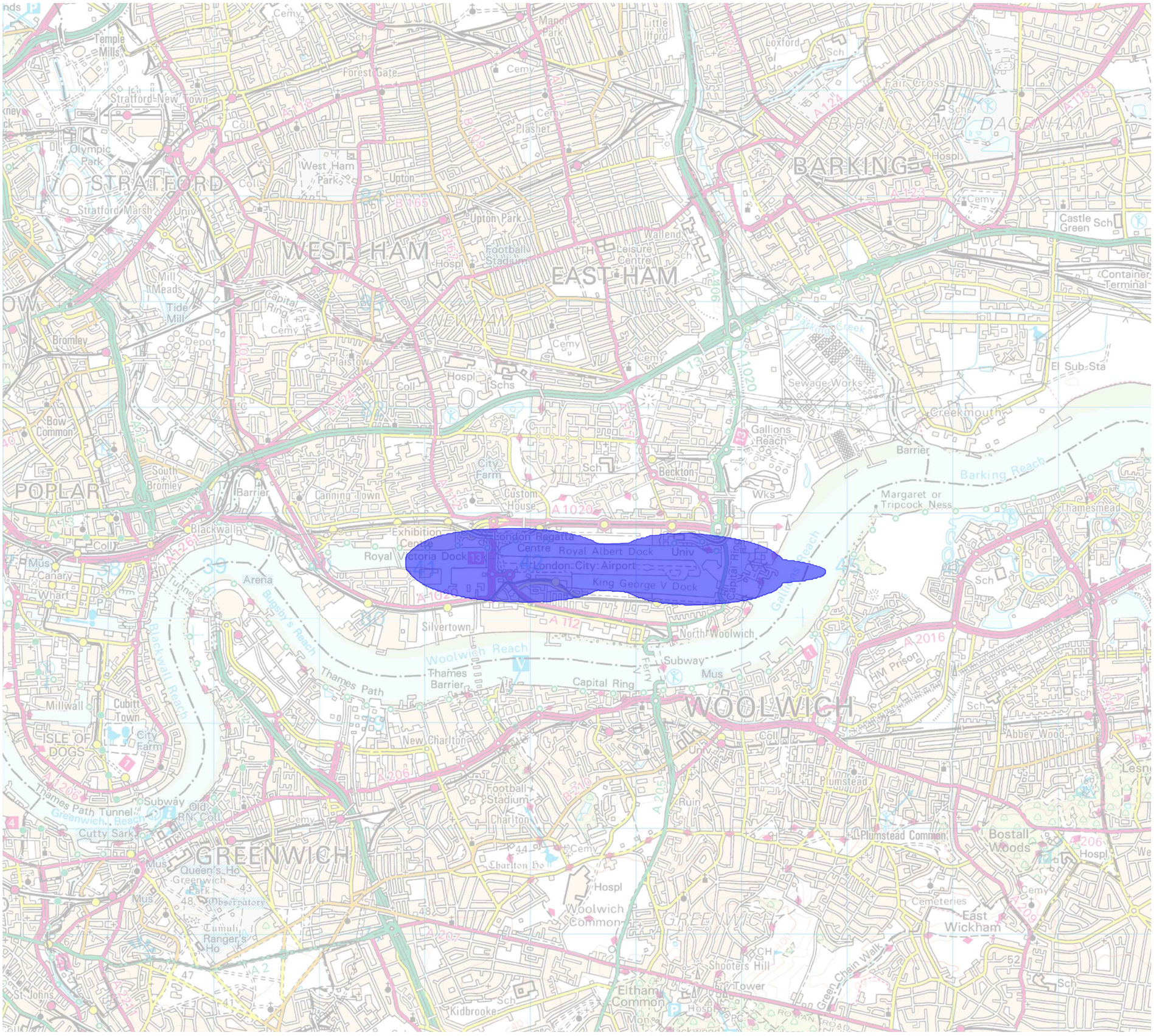
Figure 8.3.58
80 dB LASmax Once Per Night Average Mode Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR058_1.0



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LEGEND:

80 dB LASmax

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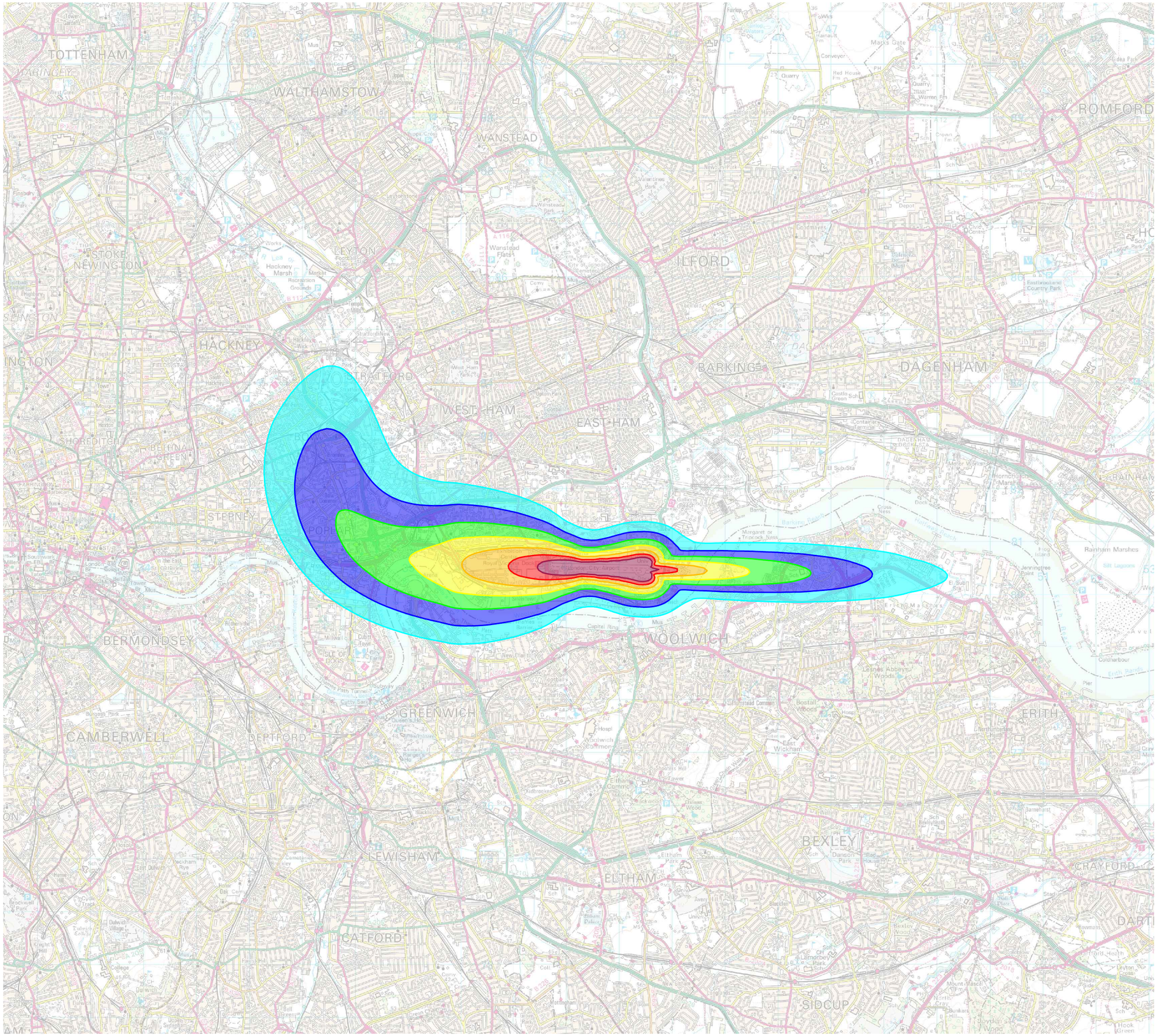
Figure 8.3.59
80 dB LASmax Once Per Night Average Mode Noise Contours - 2031 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR059_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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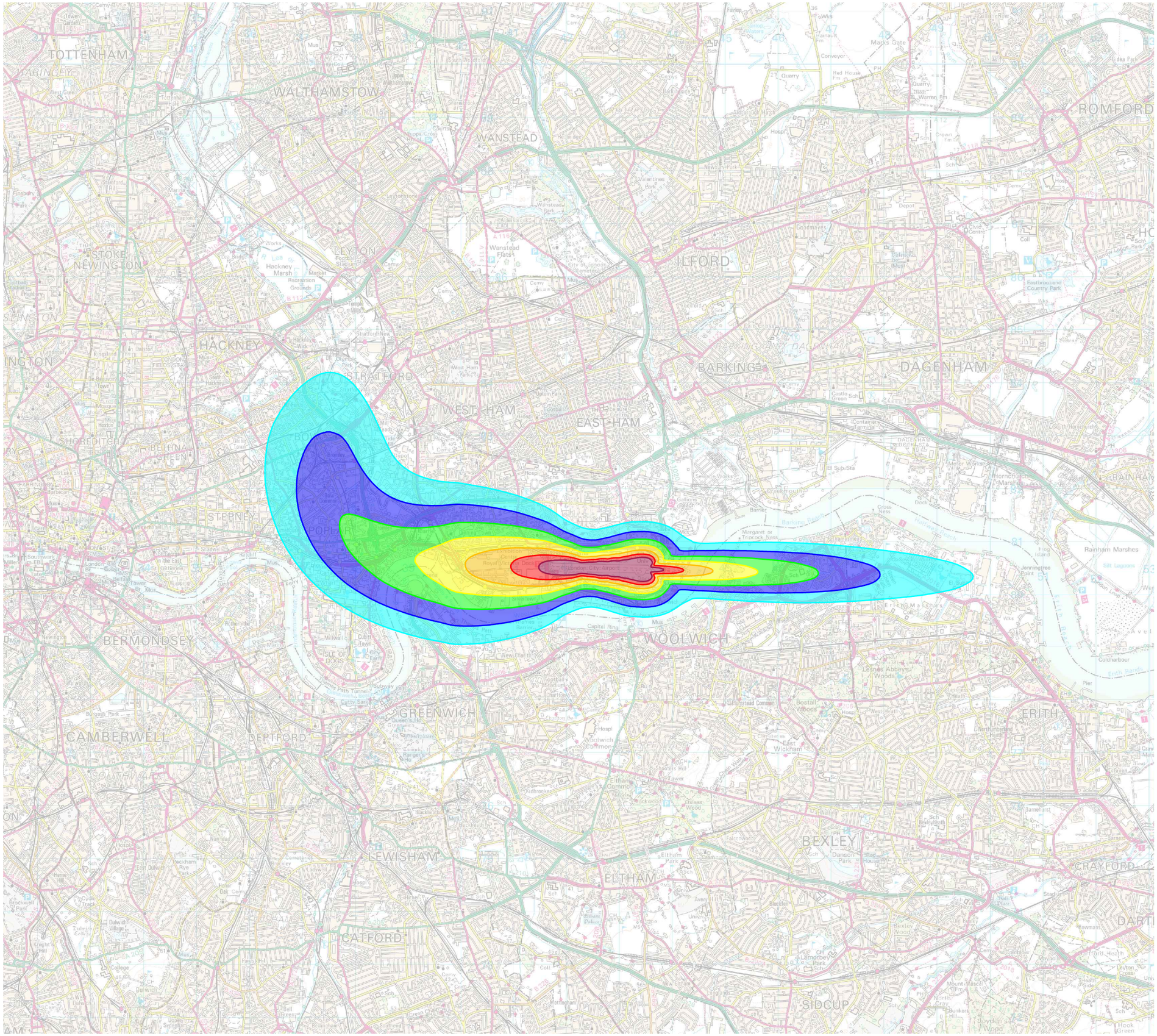
Figure 8.3.60
Westerly Mode Summer Day Noise Contours
2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR060_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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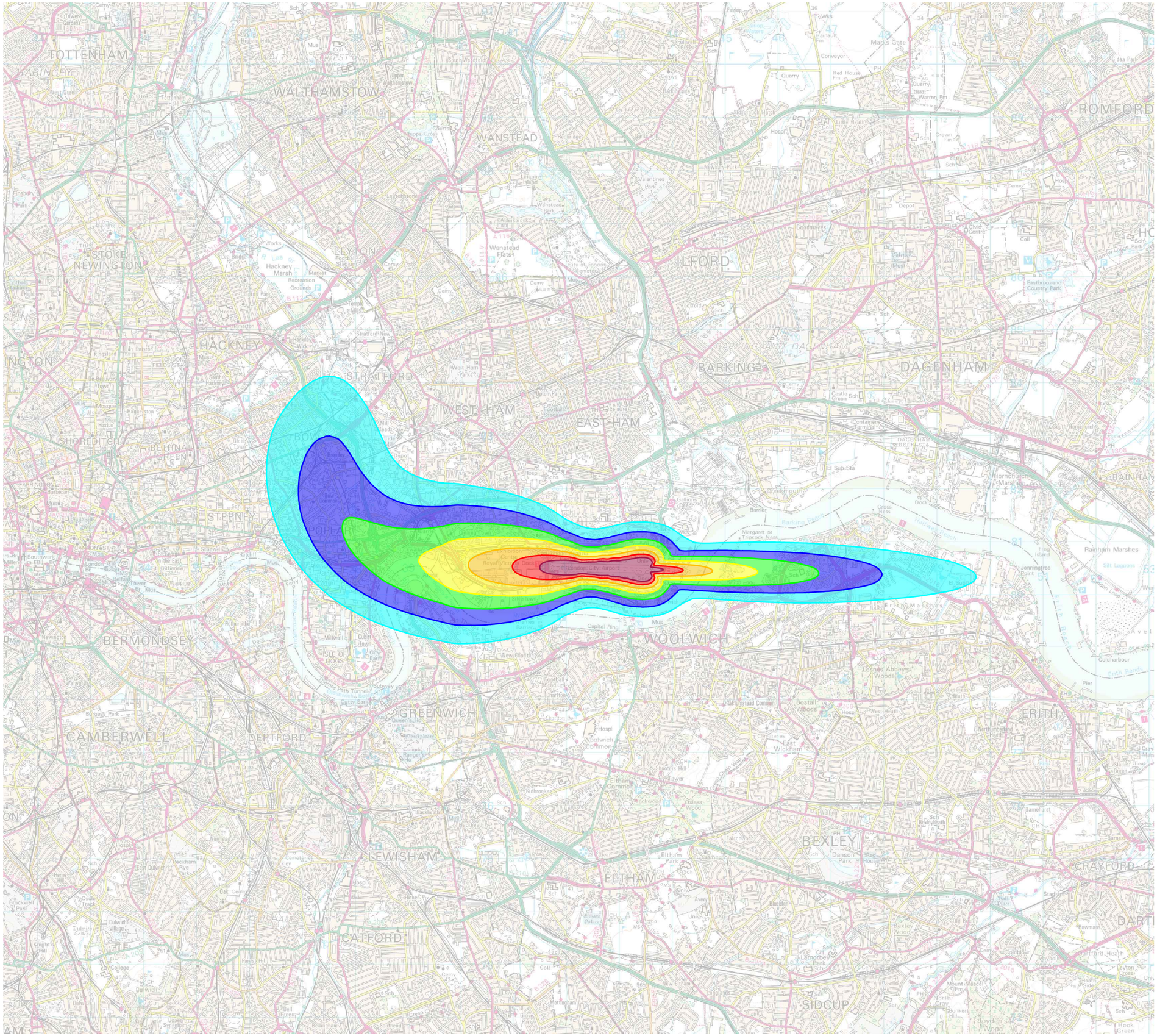
Figure 8.3.61
Westerly Mode Summer Day Noise Contours
2025 DM Scenario

DRAWN: MG
CHECKED: DC

DATE: November 2022
SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR061_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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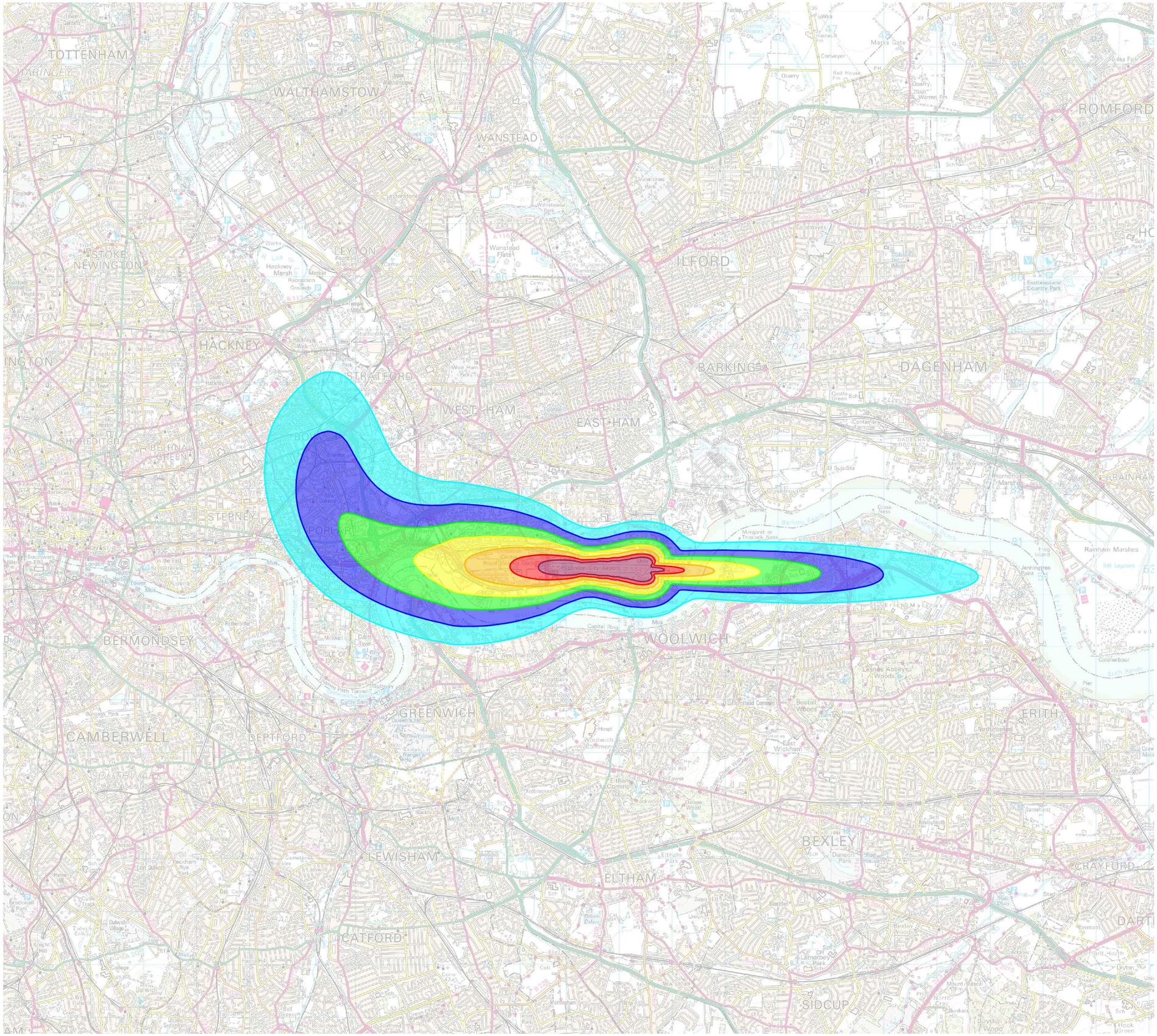
Figure 8.3.62
Westerly Mode Summer Day Noise Contours
2025 DC Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR062_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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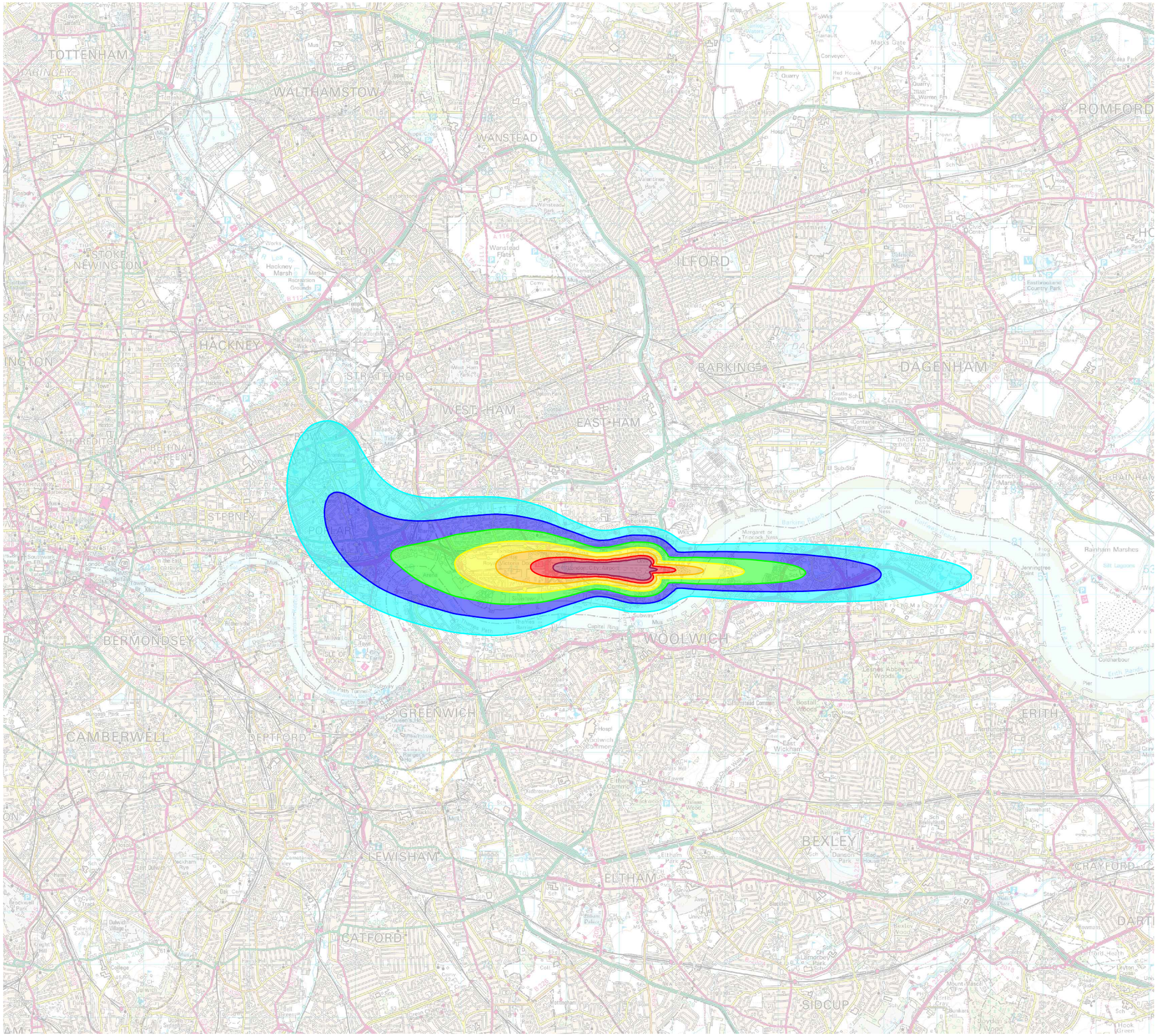
Figure 8.3.63
Westerly Mode Summer Day Noise Contours
2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR063_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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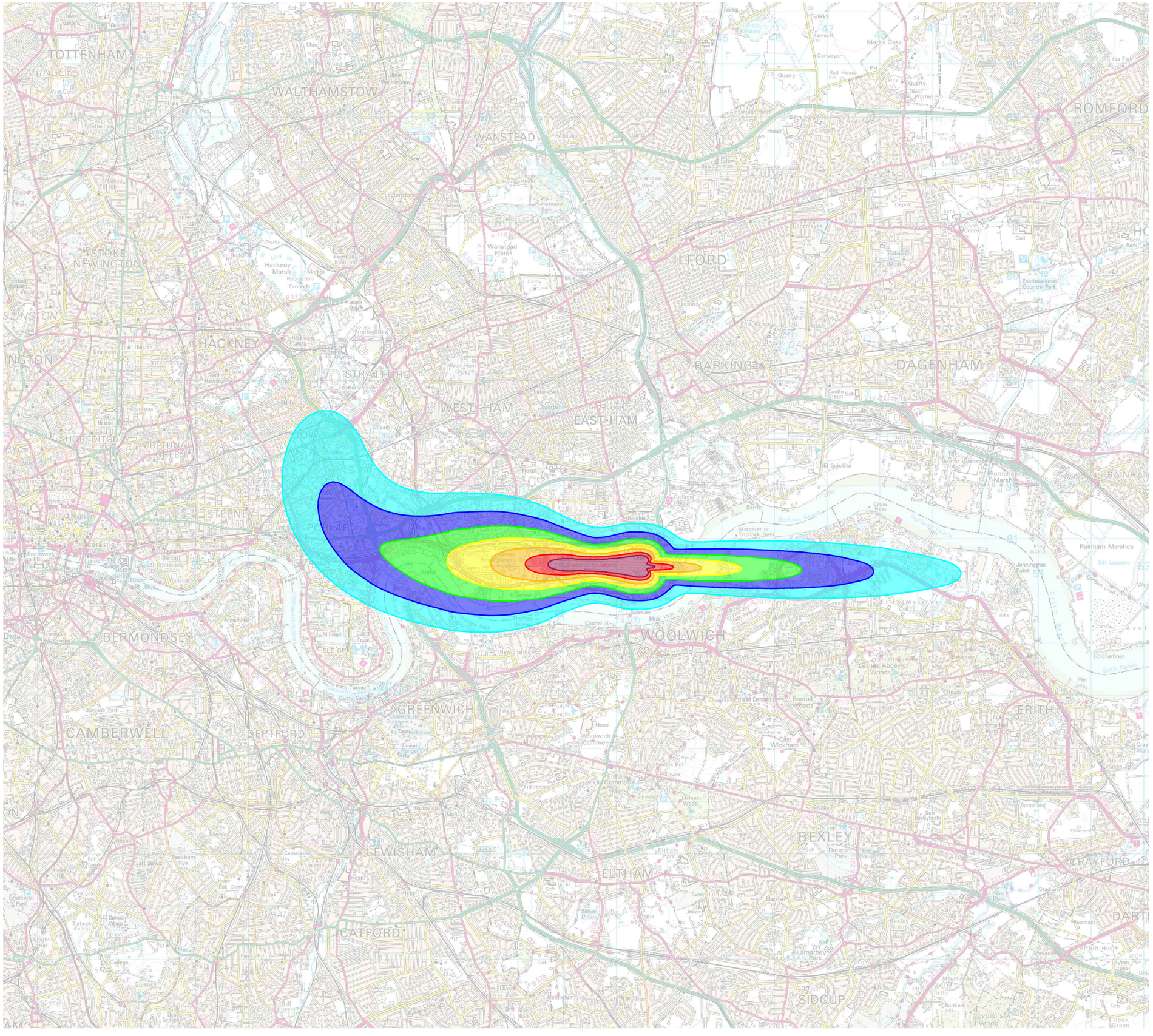
Figure 8.3.64
Westerly Mode Summer Day Noise Contours
2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR064_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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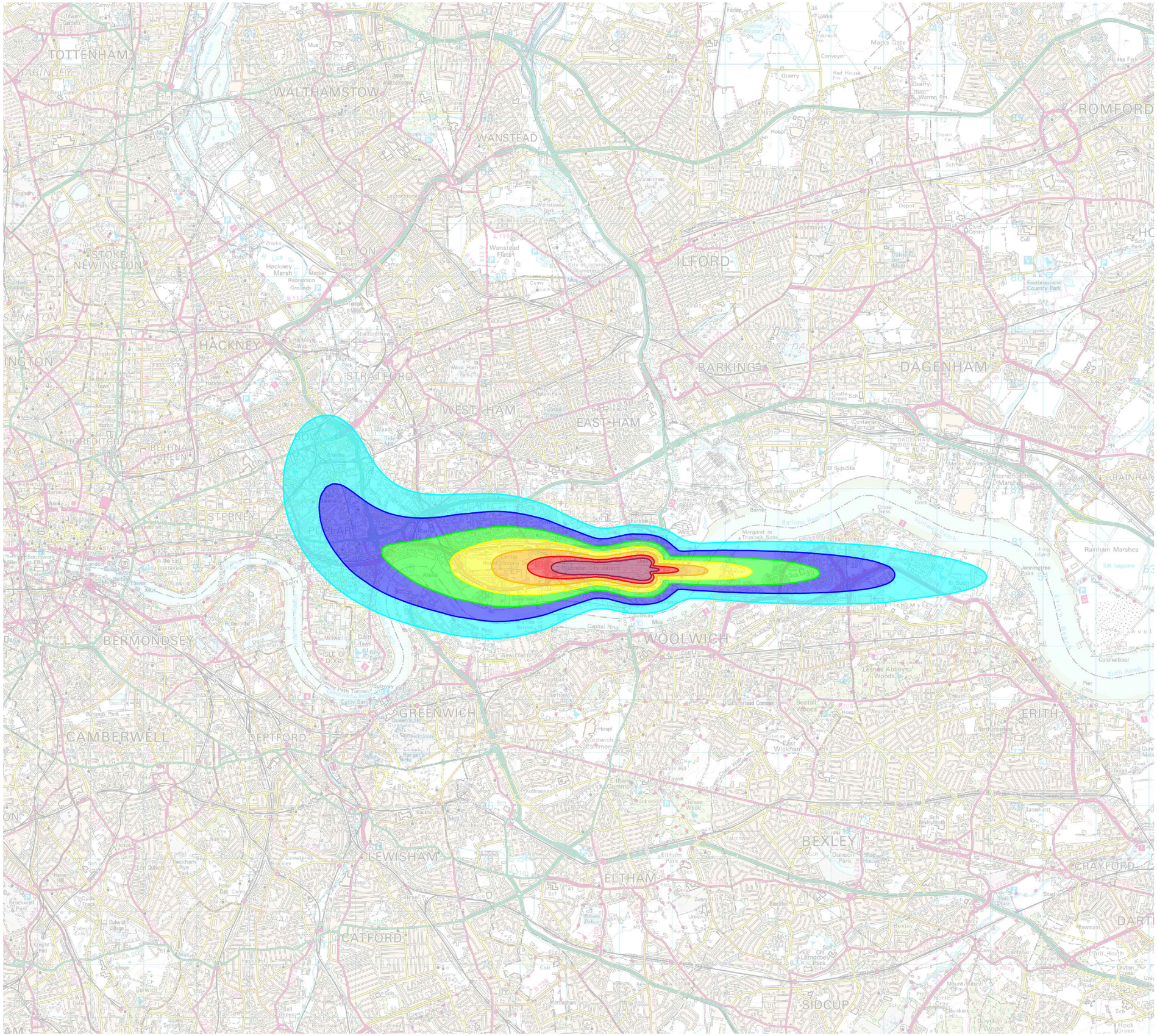
Figure 8.3.65
Westerly Mode Summer Day Noise Contours
2031 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR065_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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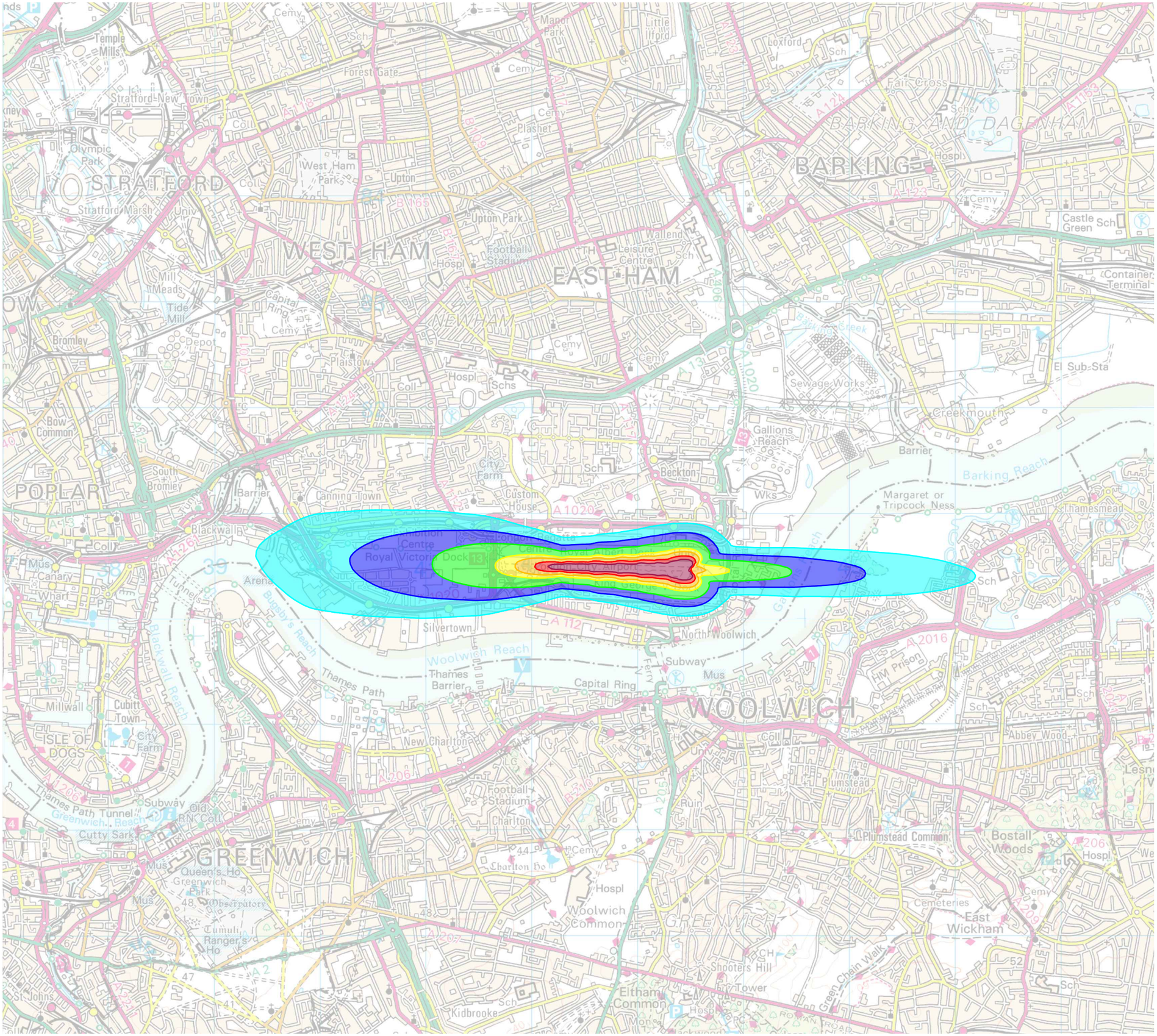
Figure 8.3.66
Westerly Mode Summer Day Noise Contours
2031 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR066_2.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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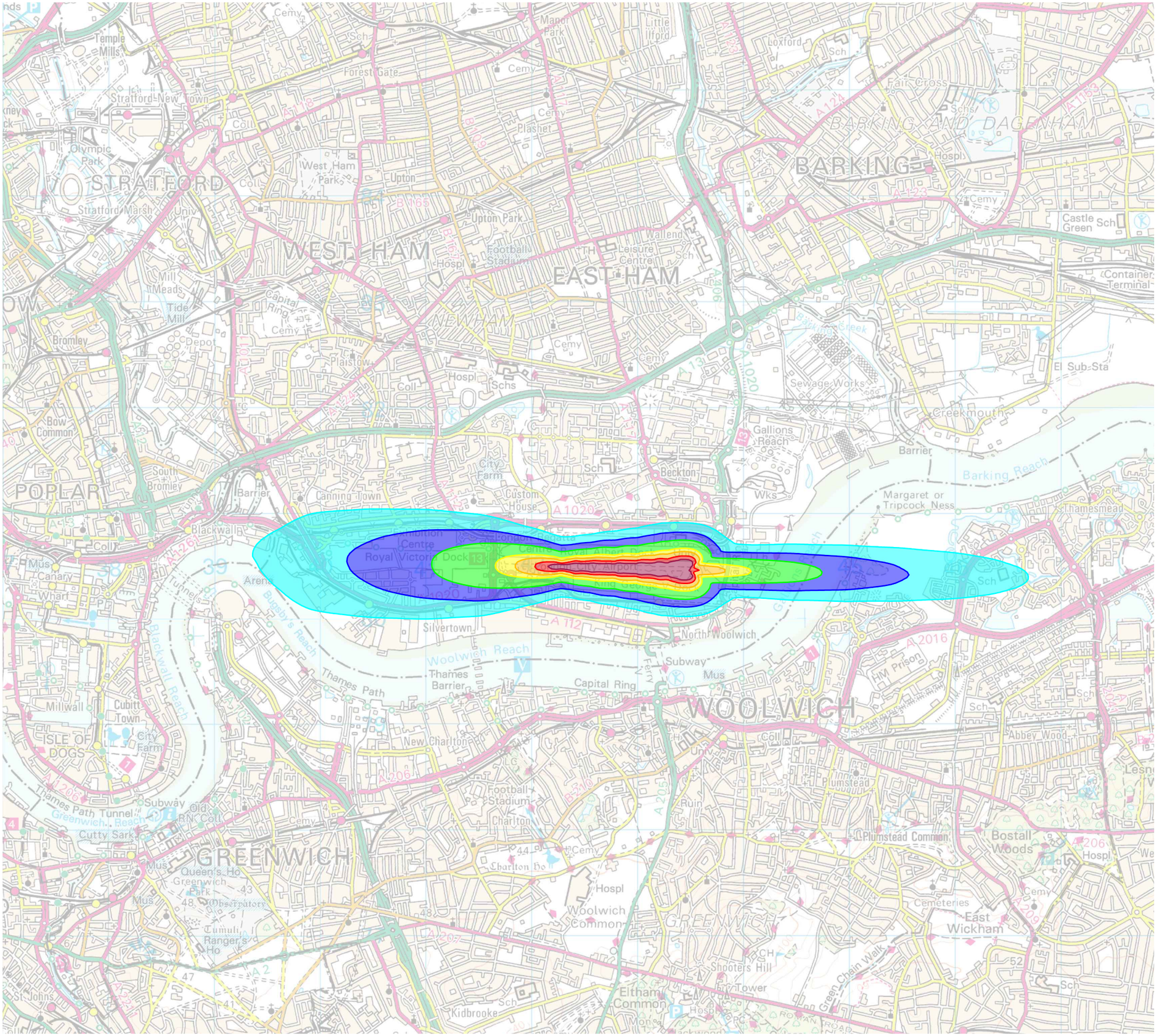
Figure 8.3.67
Westerly Mode Summer Night Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR067_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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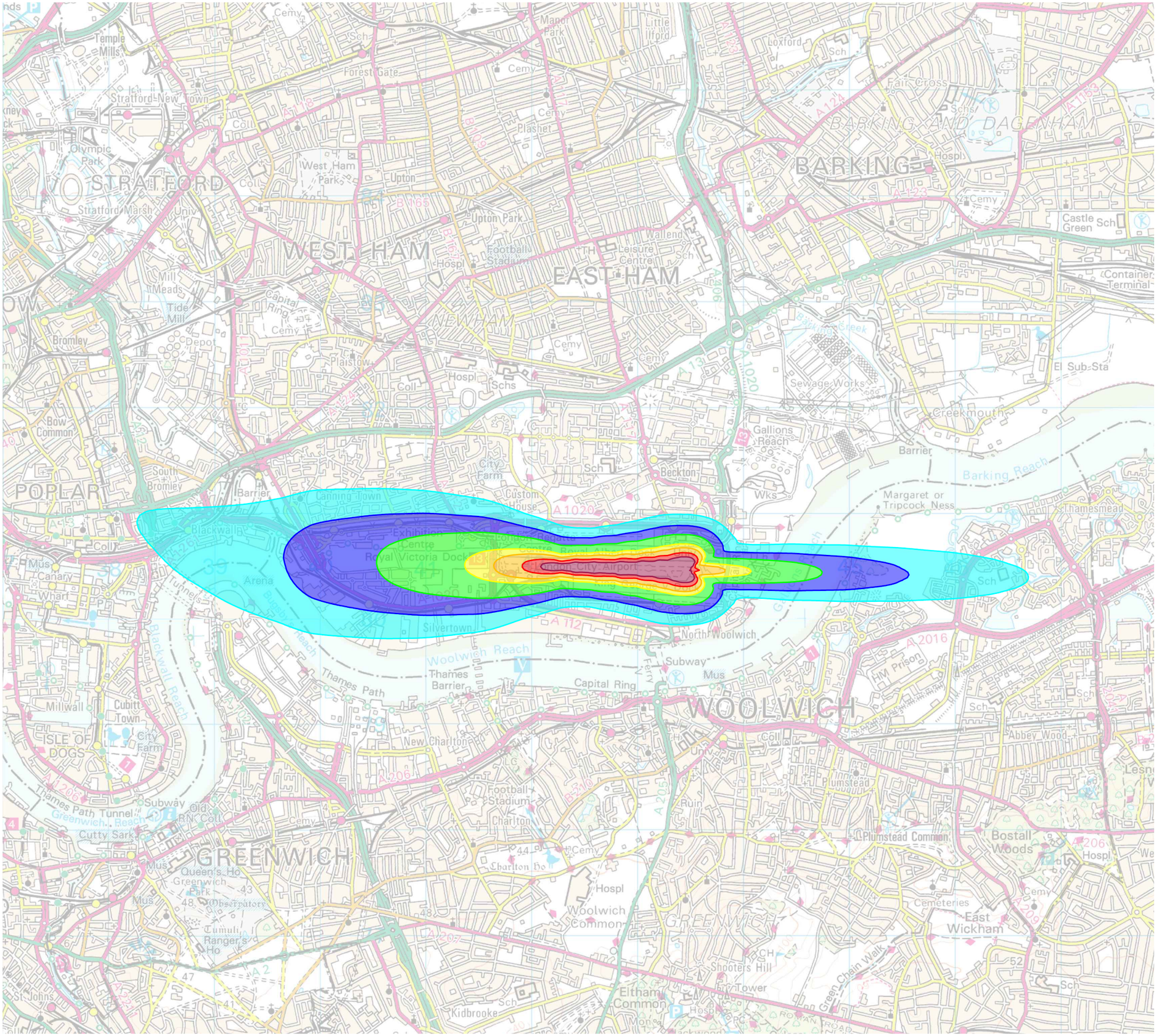
Figure 8.3.68
Westerly Mode Summer Night Noise Contours - 2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR068_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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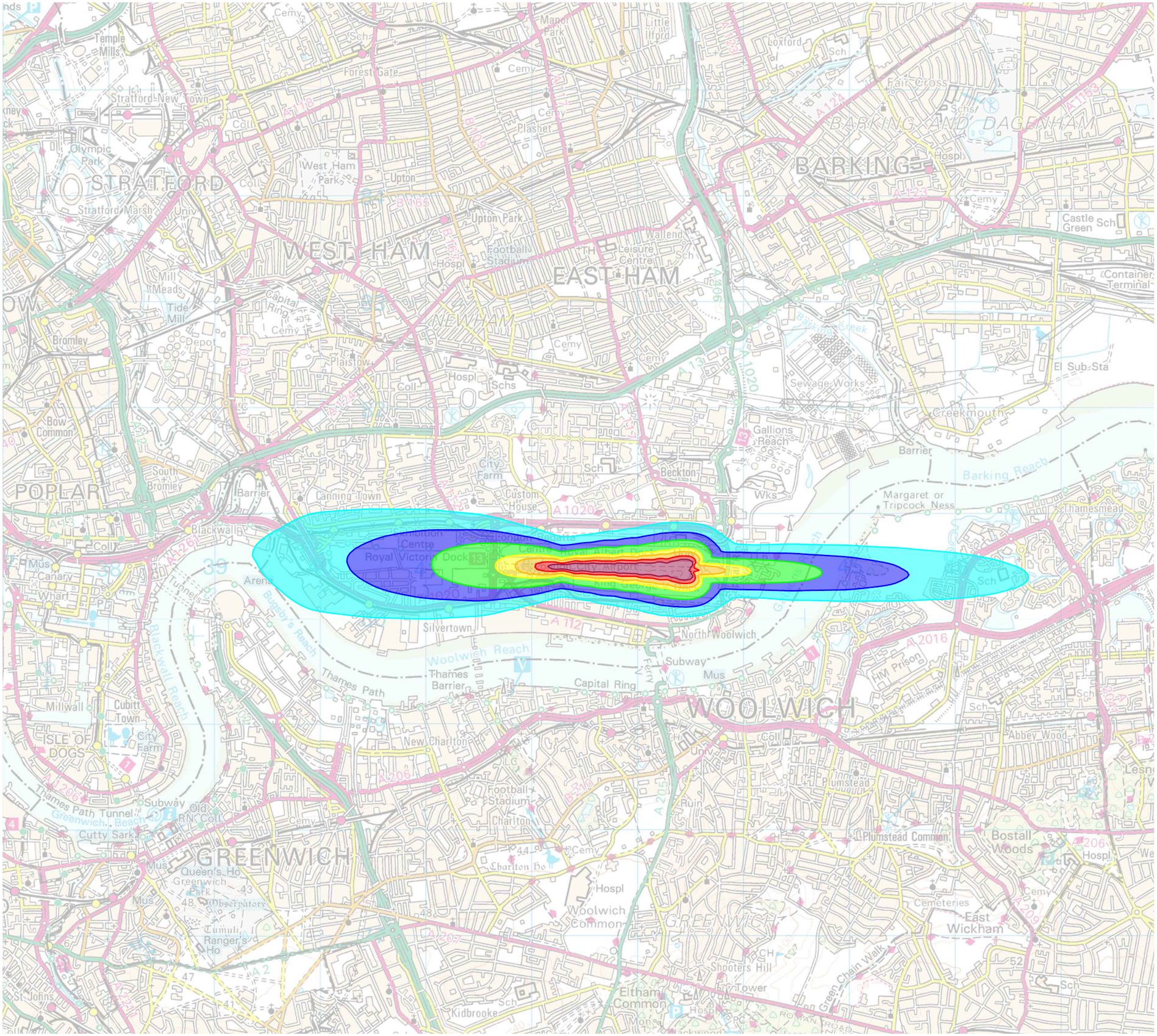
Figure 8.3.69
Westerly Mode Summer Night Noise Contours - 2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR069_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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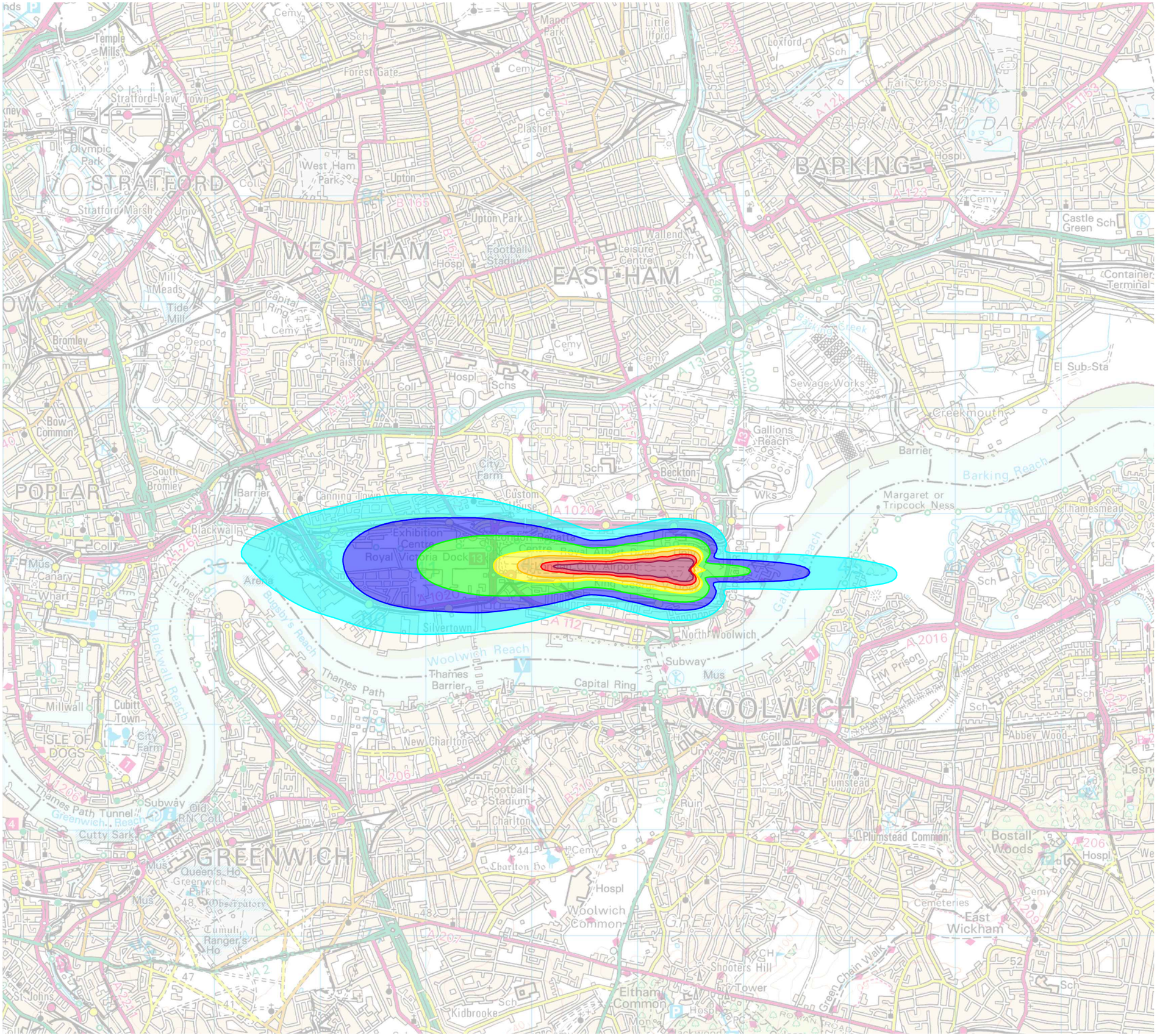
Figure 8.3.70
Westerly Mode Summer Night Noise Contours - 2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR070_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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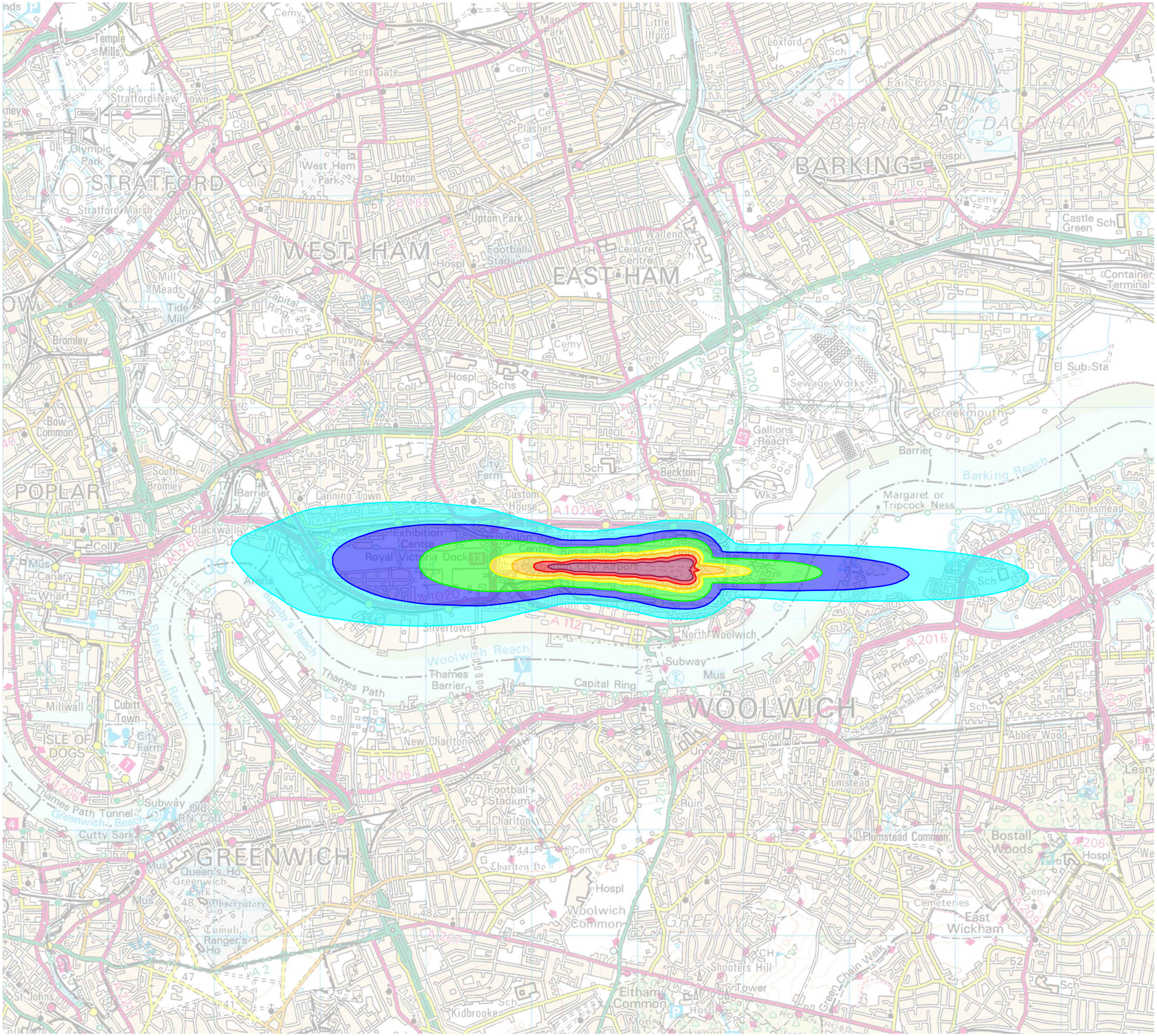
Figure 8.3.71
Westerly Mode Summer Night Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR071_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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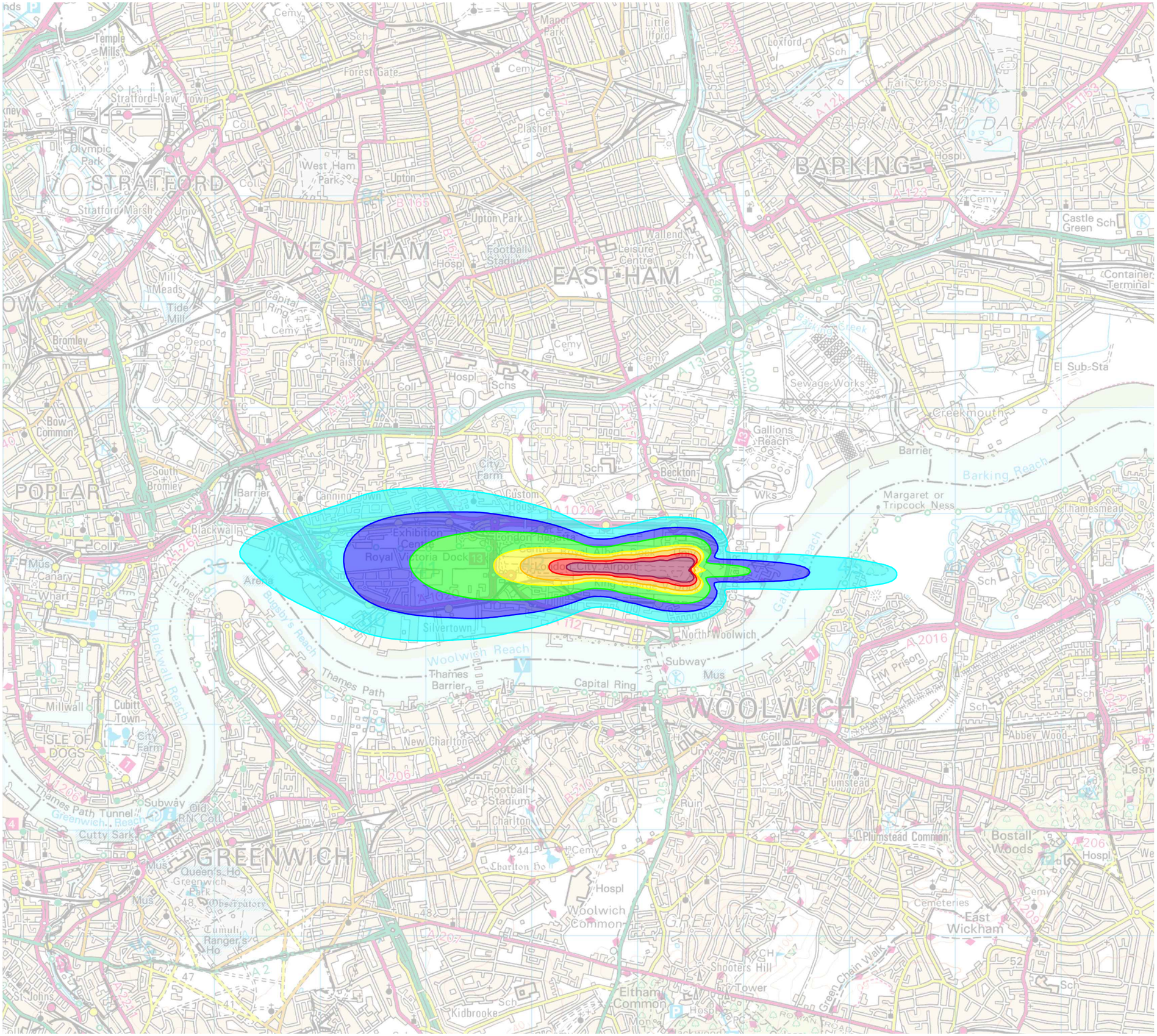
Figure 8.3.72
Westerly Mode Summer Night Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR072_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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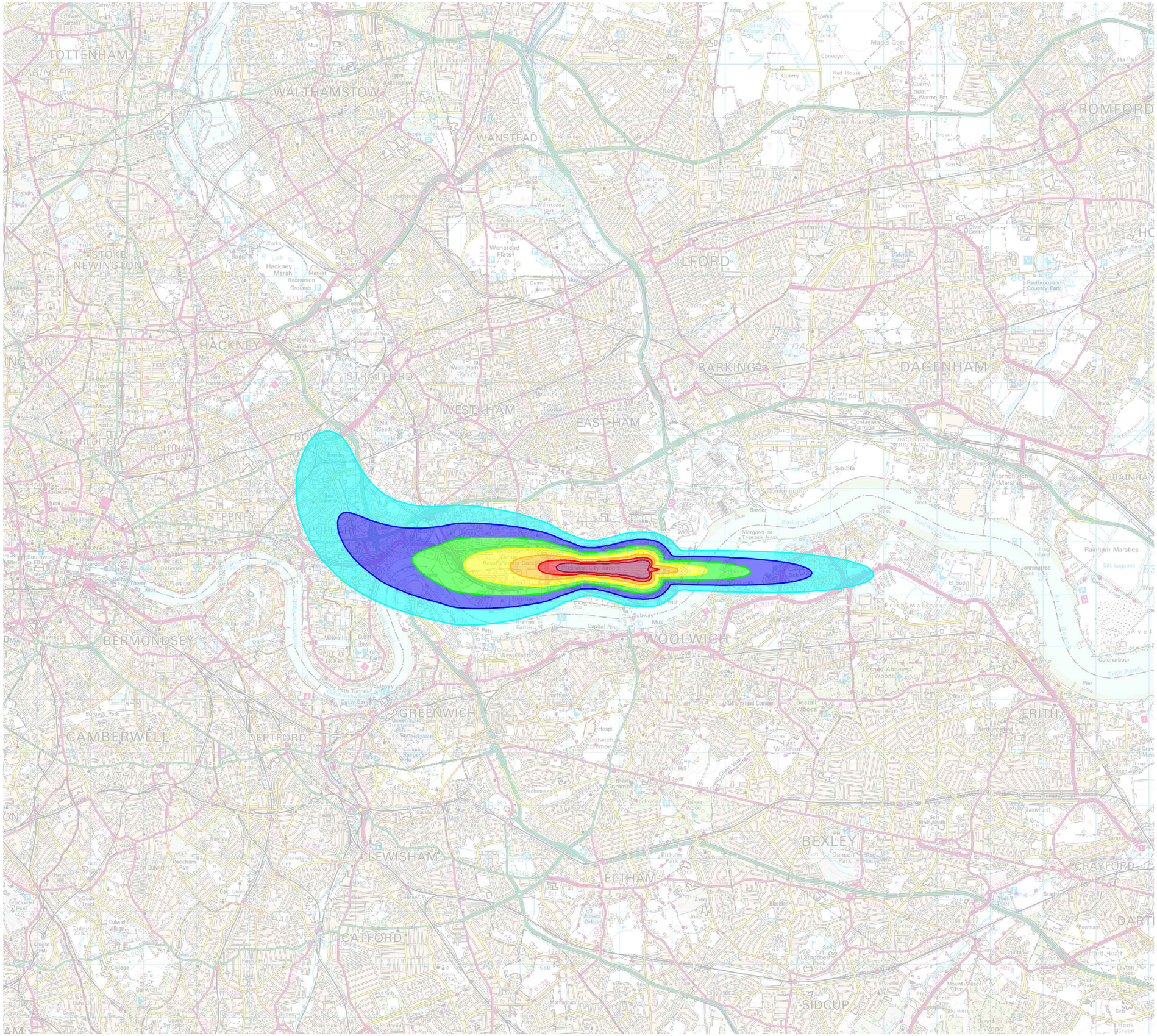
Figure 8.3.73
Westerly Mode Summer Night Noise Contours - 2031 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR073_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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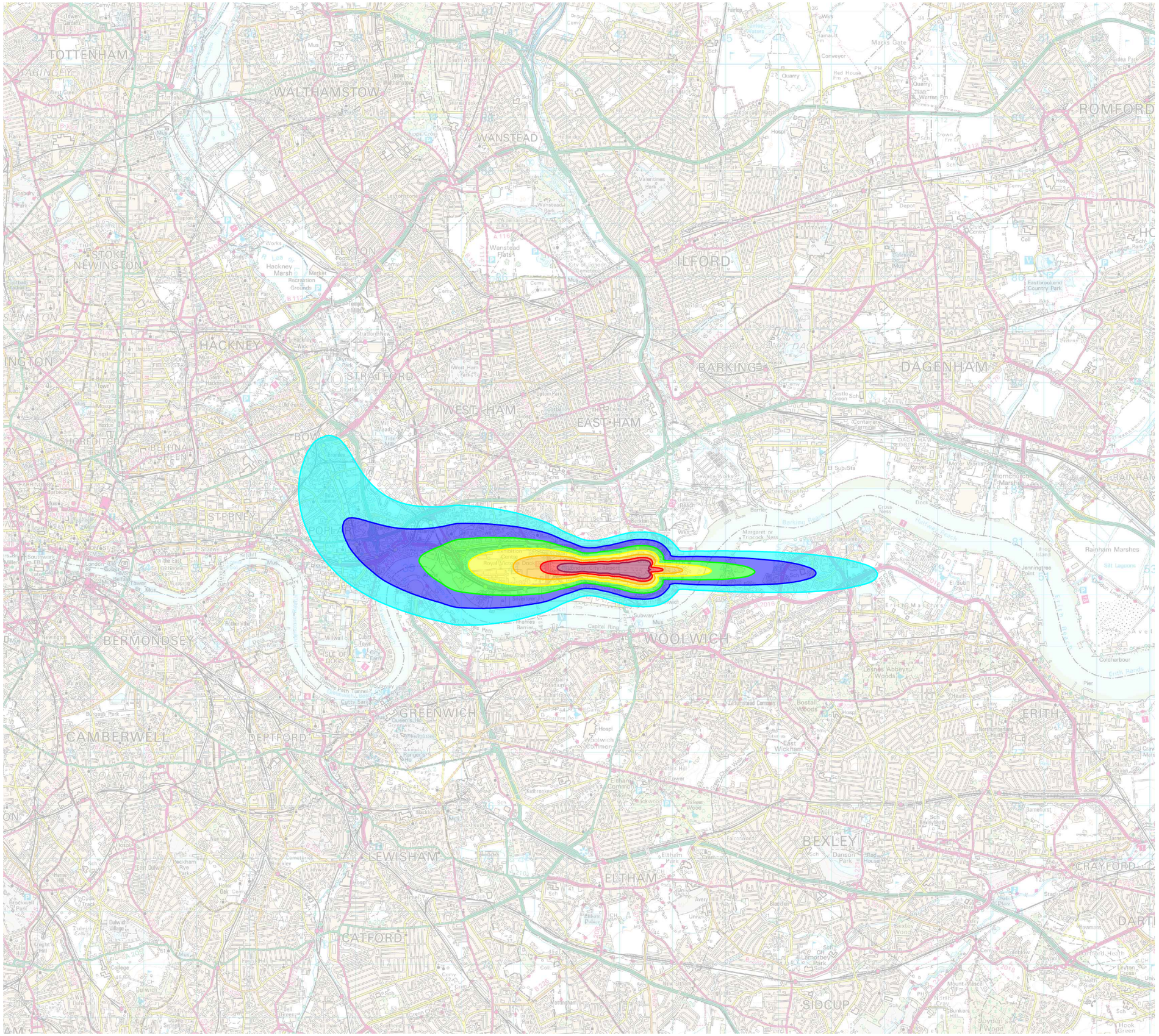
Figure 8.3.74
Westerly Mode Summer Weekend Noise Contours - 2019 Actual

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR074_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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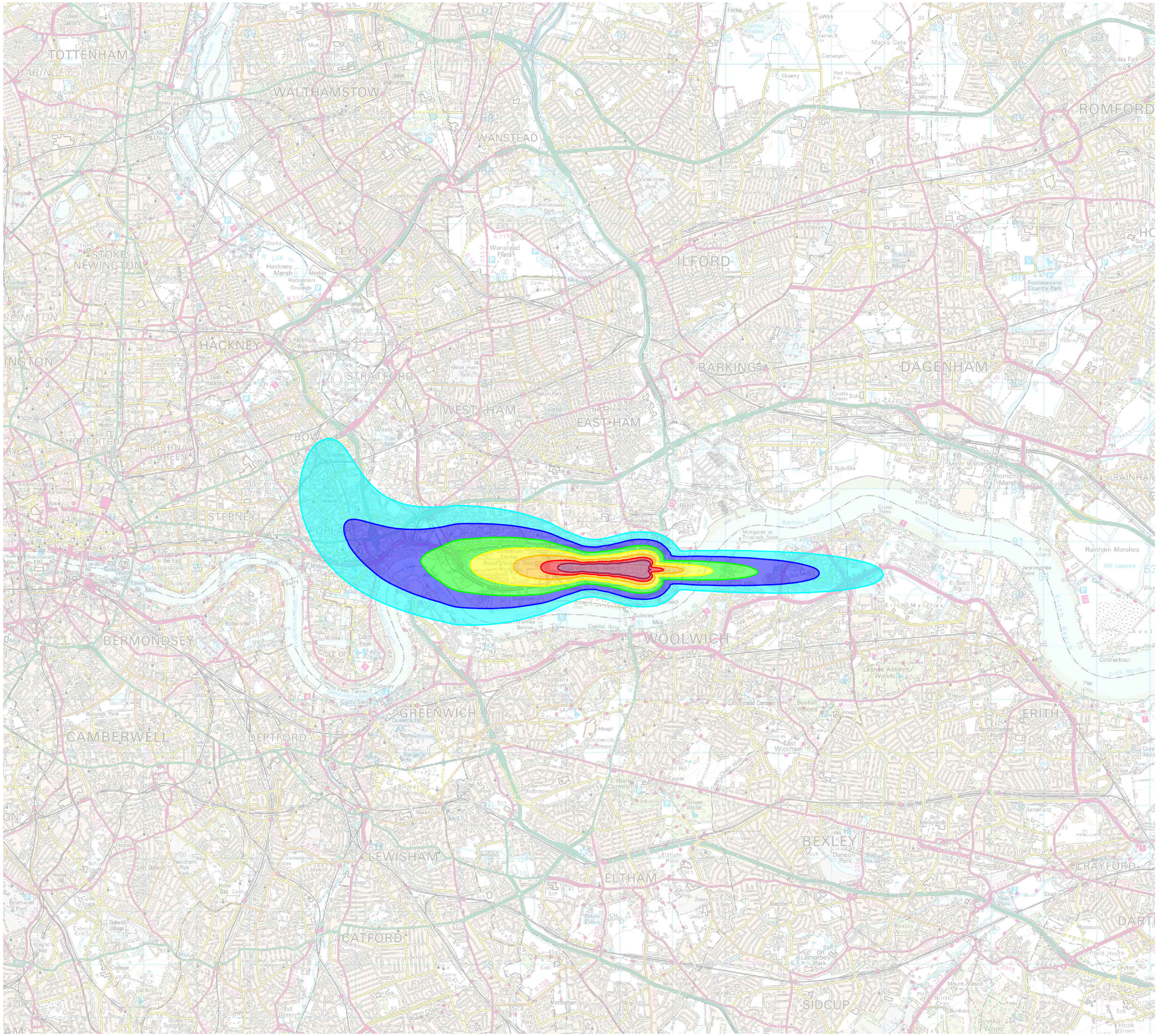
Figure 8.3.75
Westerly Mode Summer Weekend Noise Contours - 2025 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR075_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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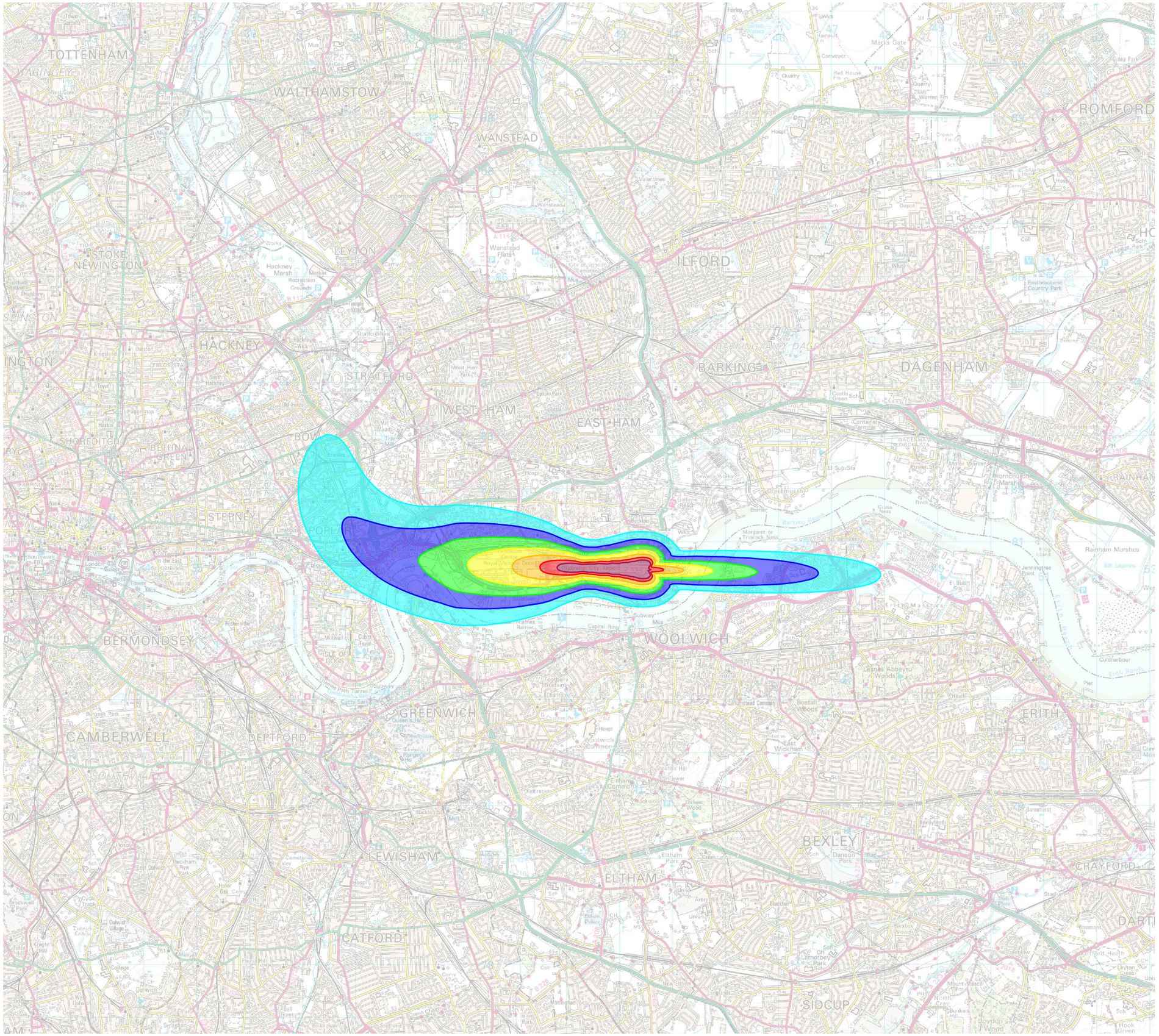
Figure 8.3.76
Westerly Mode Summer Weekend Noise Contours - 2025 DC Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR076_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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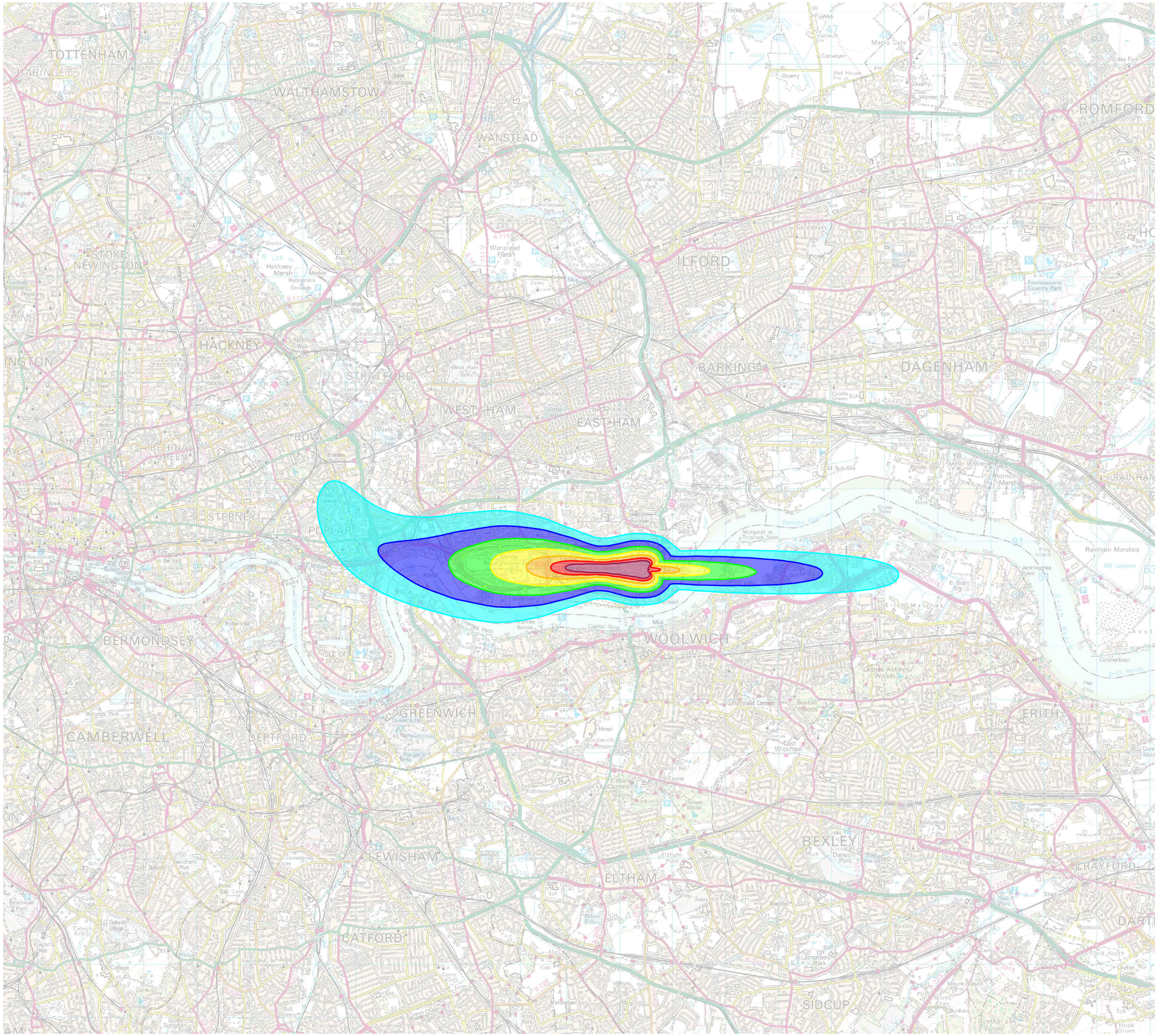
Figure 8.3.77
Westerly Mode Summer Weekend Noise Contours - 2027 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR077_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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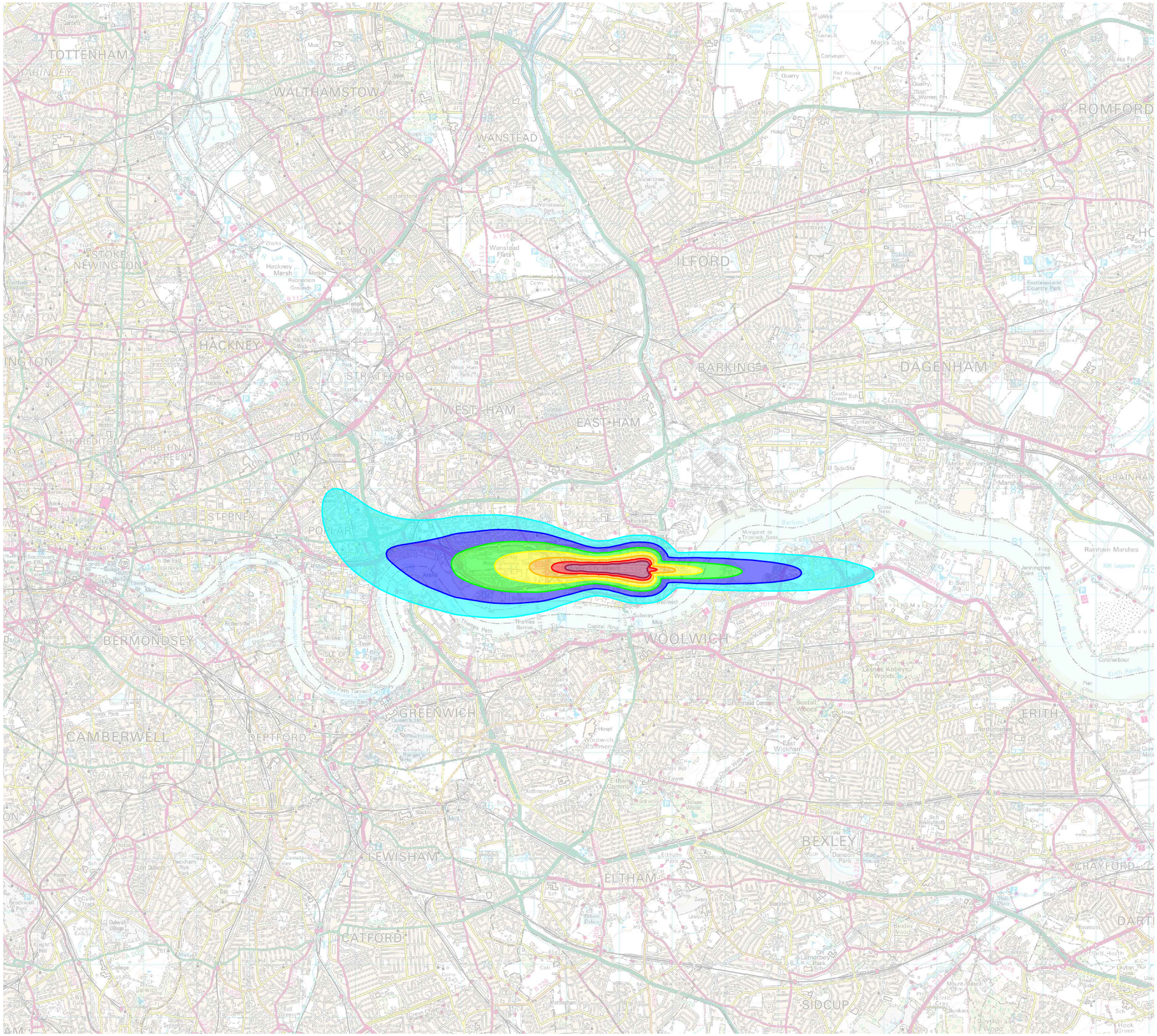
Figure 8.3.78
Westerly Mode Summer Weekend Noise Contours - 2027 DC Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR078_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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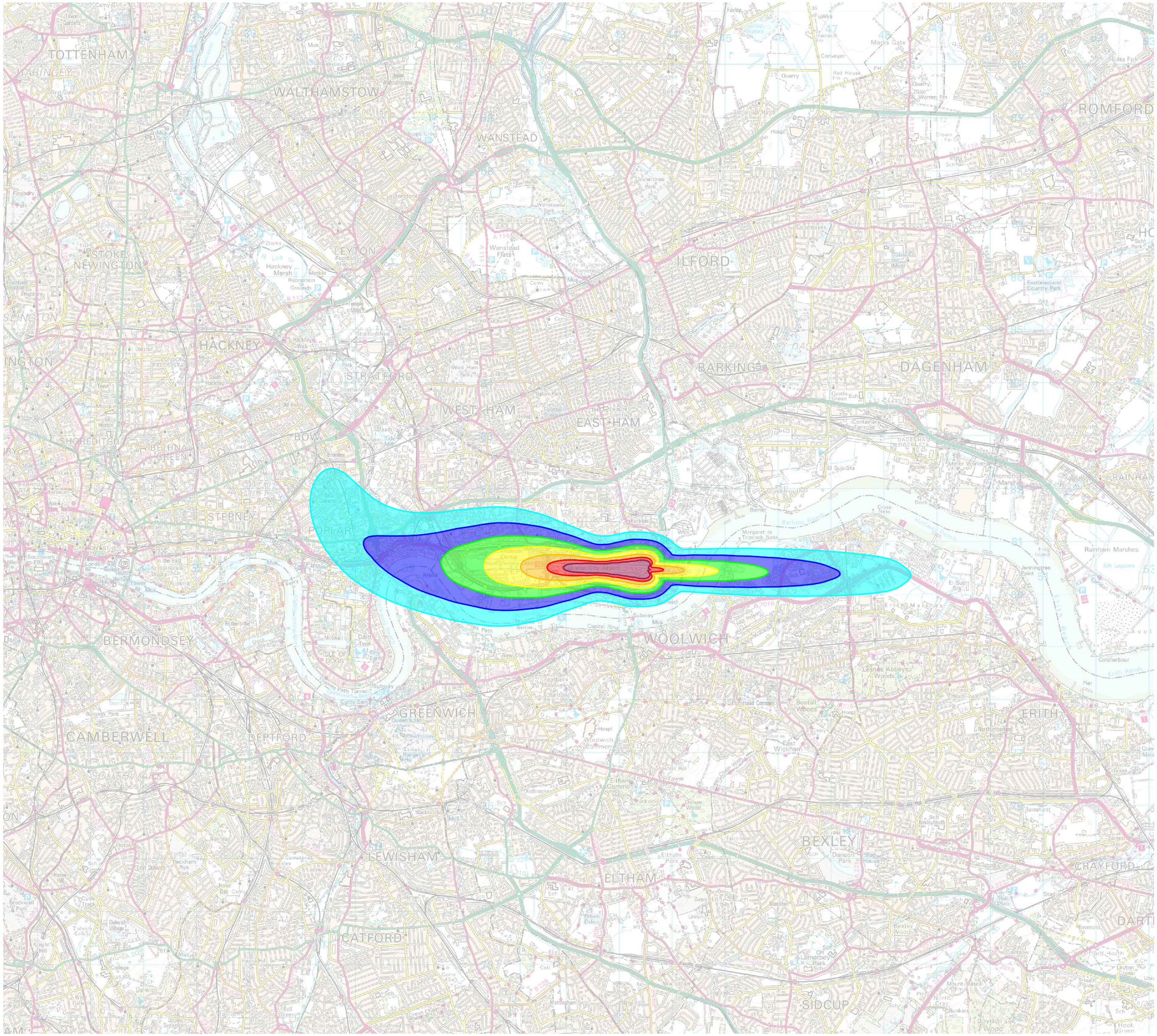
Figure 8.3.79
Westerly Mode Summer Weekend Noise Contours - 2031 DM Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR079_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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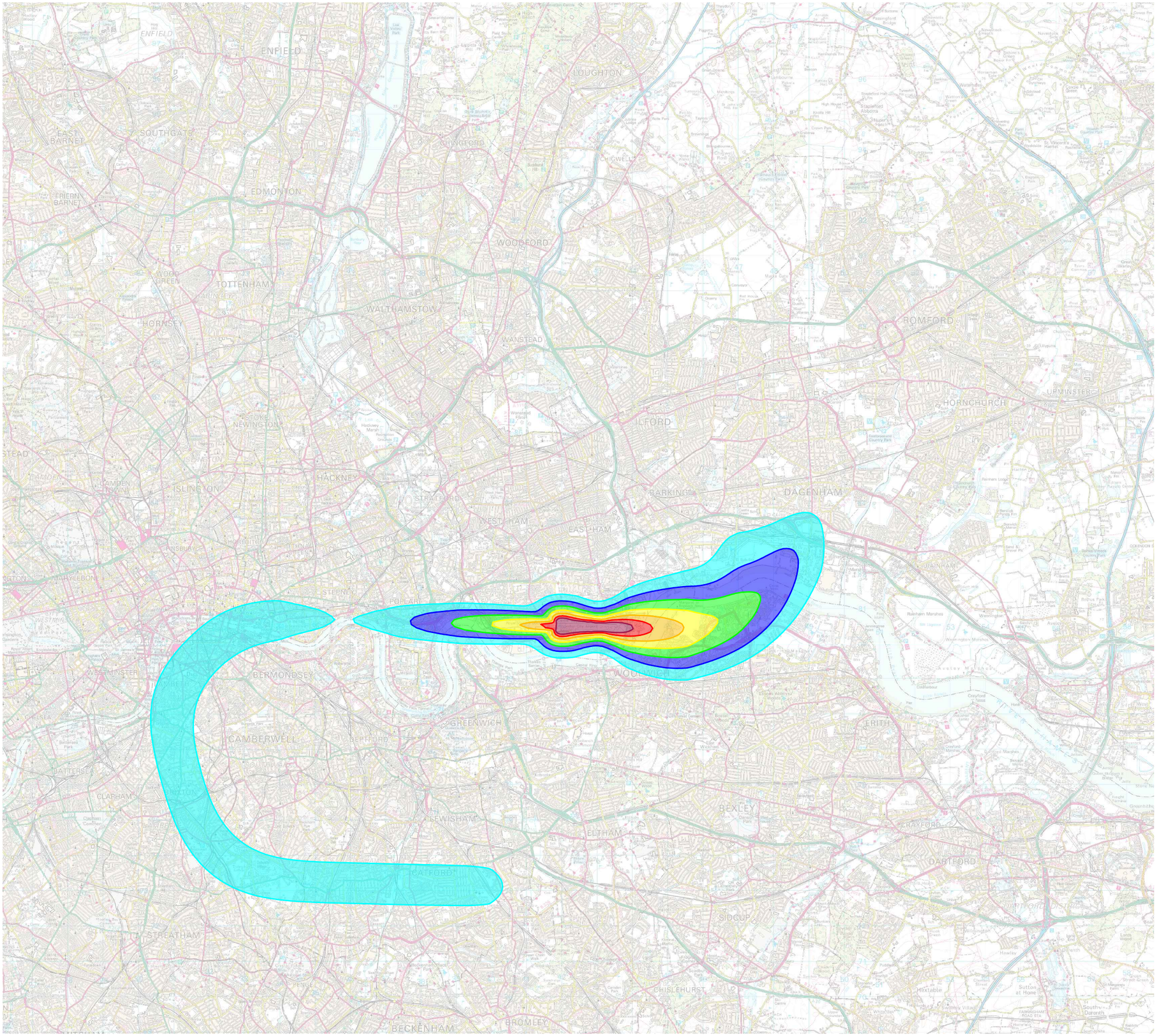
Figure 8.3.80
Westerly Mode Summer Weekend Noise Contours - 2031 DC Scenario

DRAWN: MP | CHECKED: DR

DATE: December 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR080_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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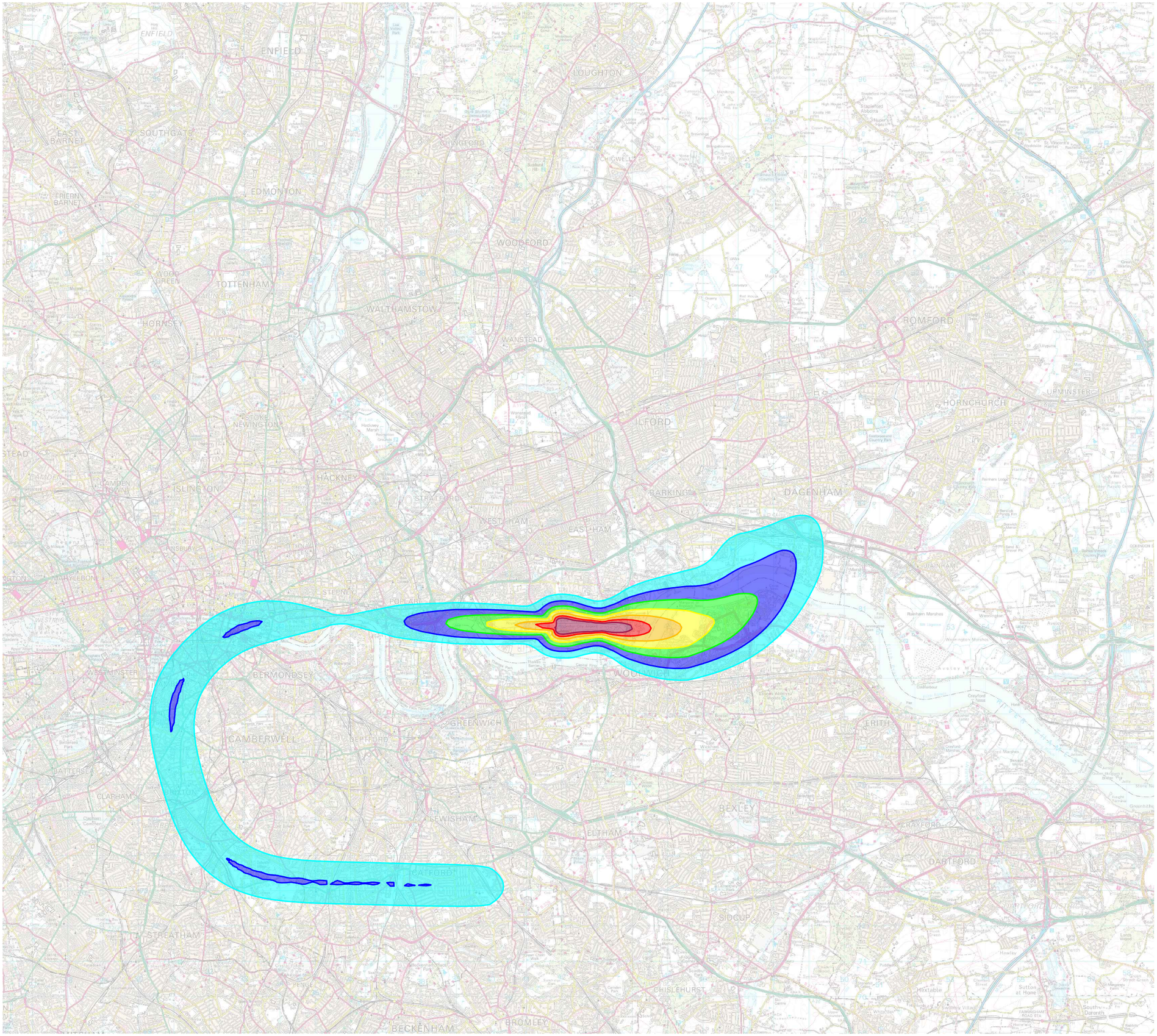
Figure 8.3.81
Easterly Mode Summer Day Noise Contours
2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR081_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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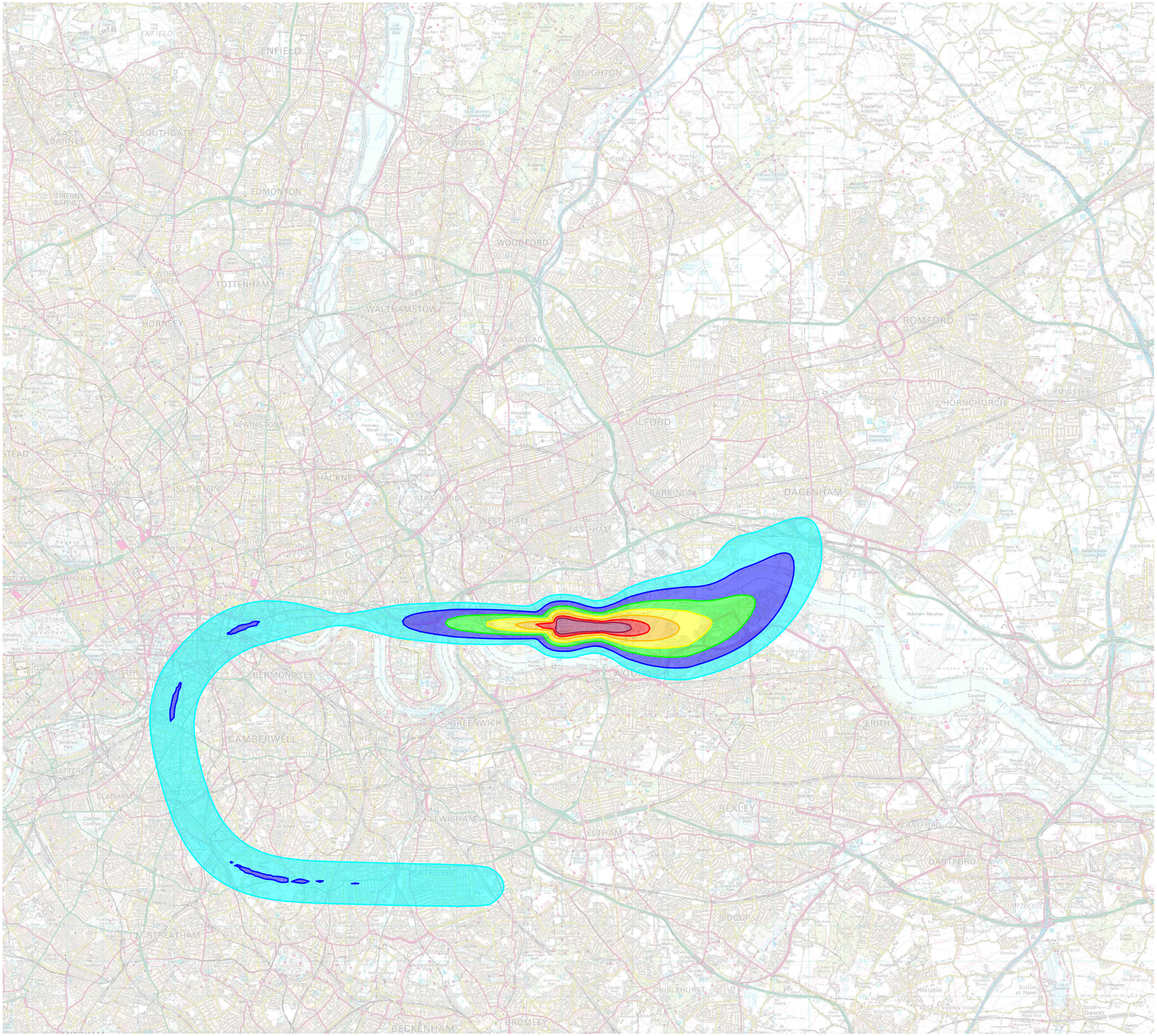
Figure 8.3.82
Easterly Mode Summer Day Noise Contours
2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR082_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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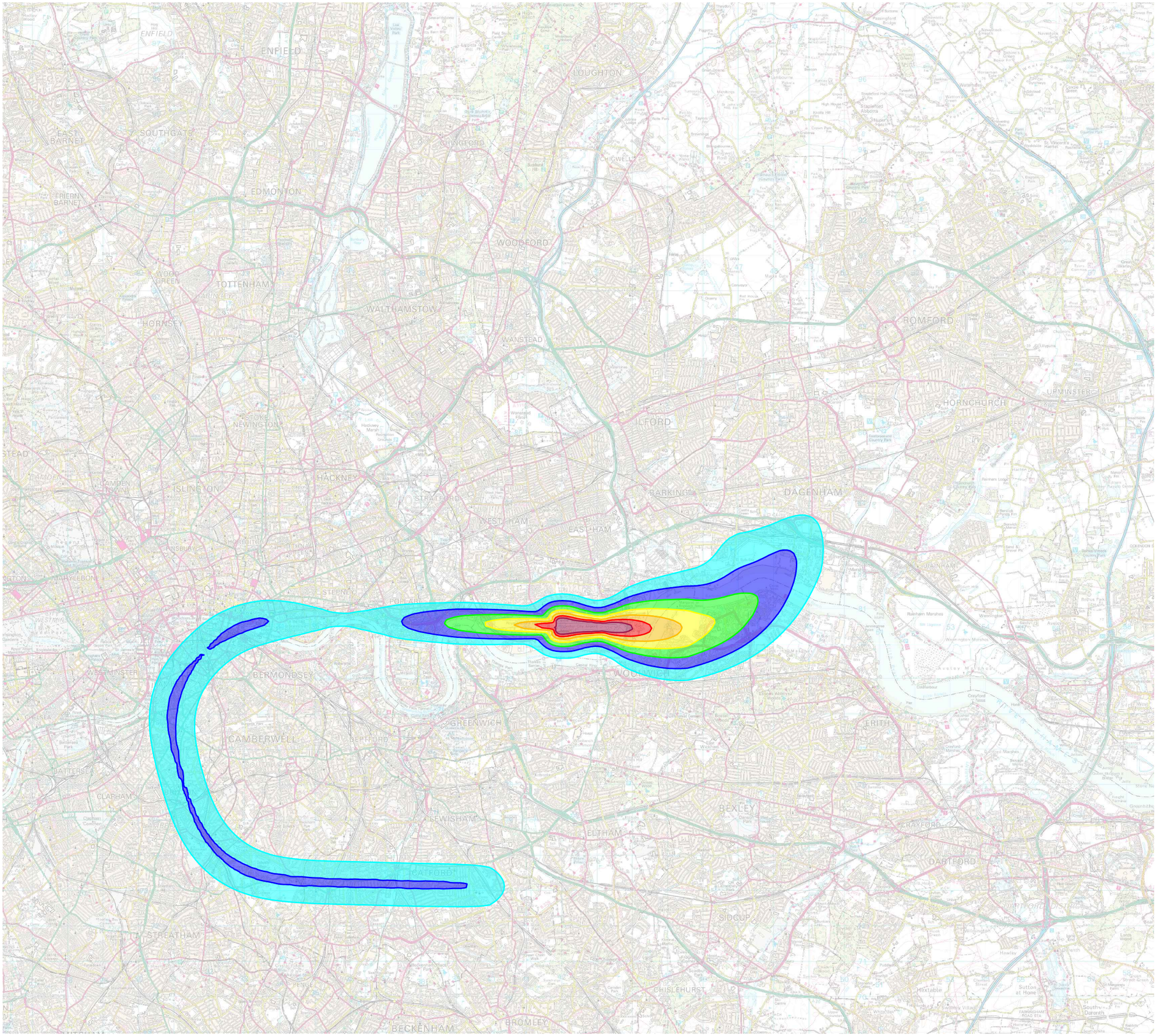
Figure 8.3.83
Easterly Mode Summer Day Noise Contours
2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR083_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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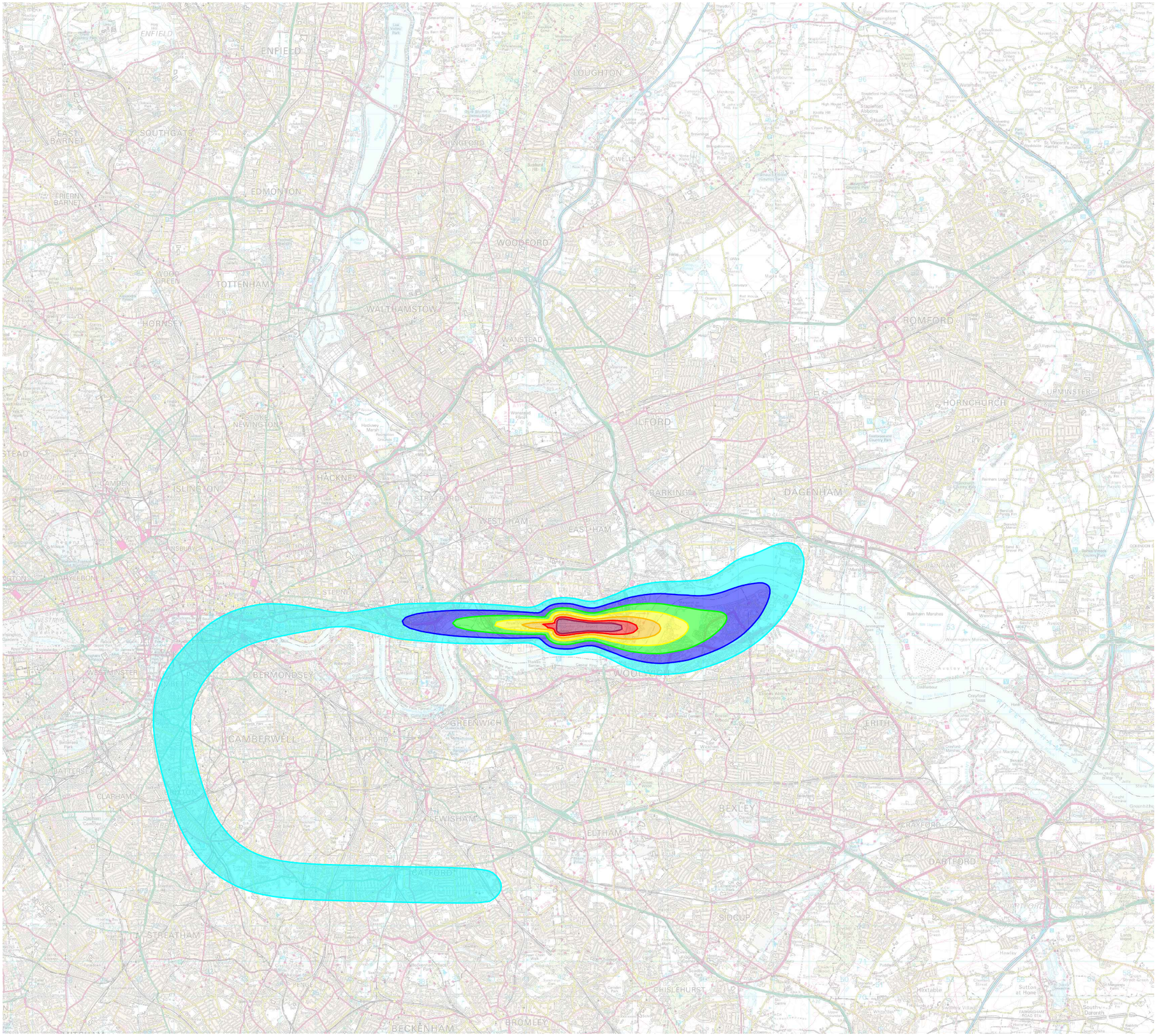
Figure 8.3.84
Easterly Mode Summer Day Noise Contours
2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR084_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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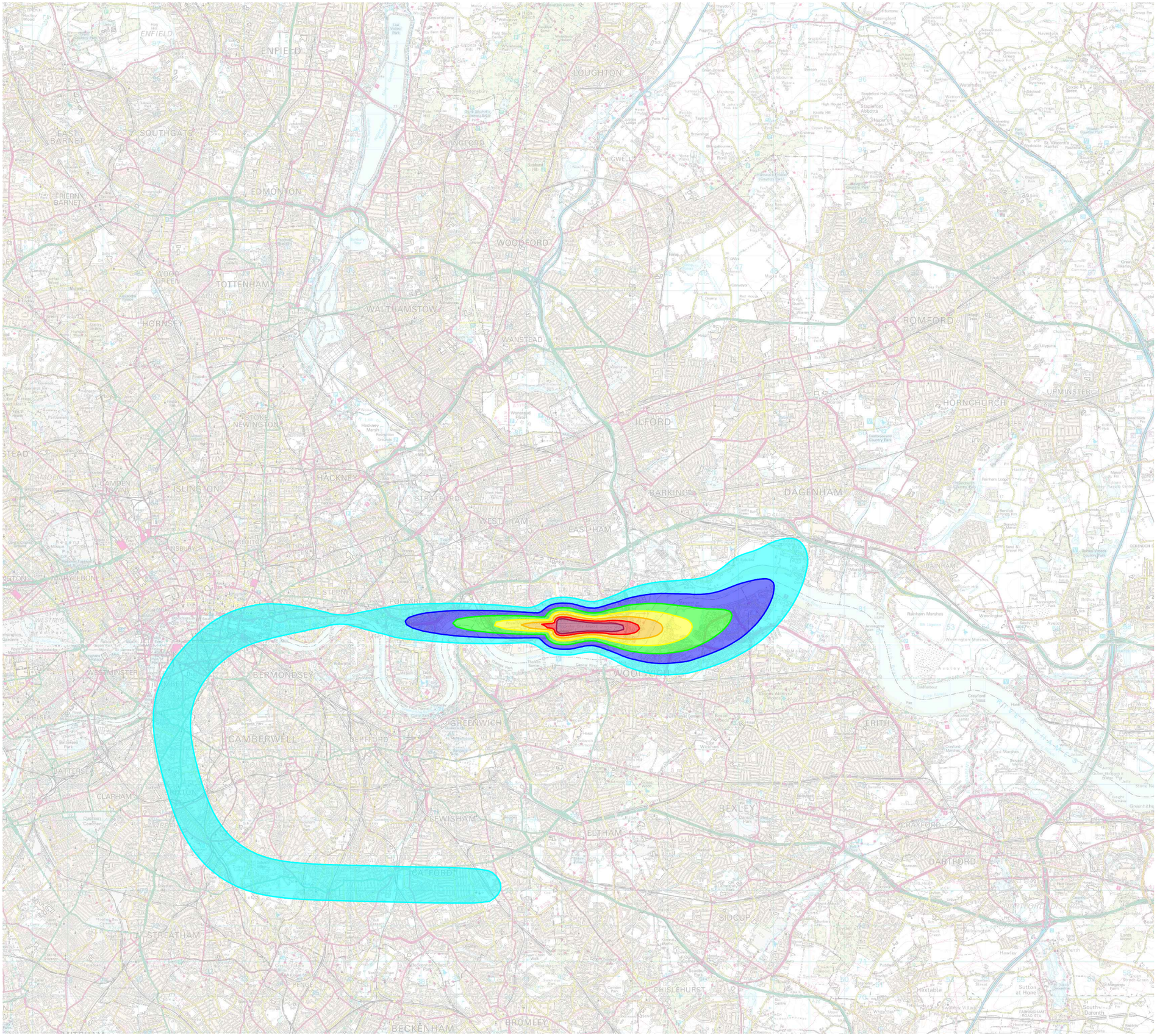
Figure 8.3.85
Easterly Mode Summer Day Noise Contours
2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR085_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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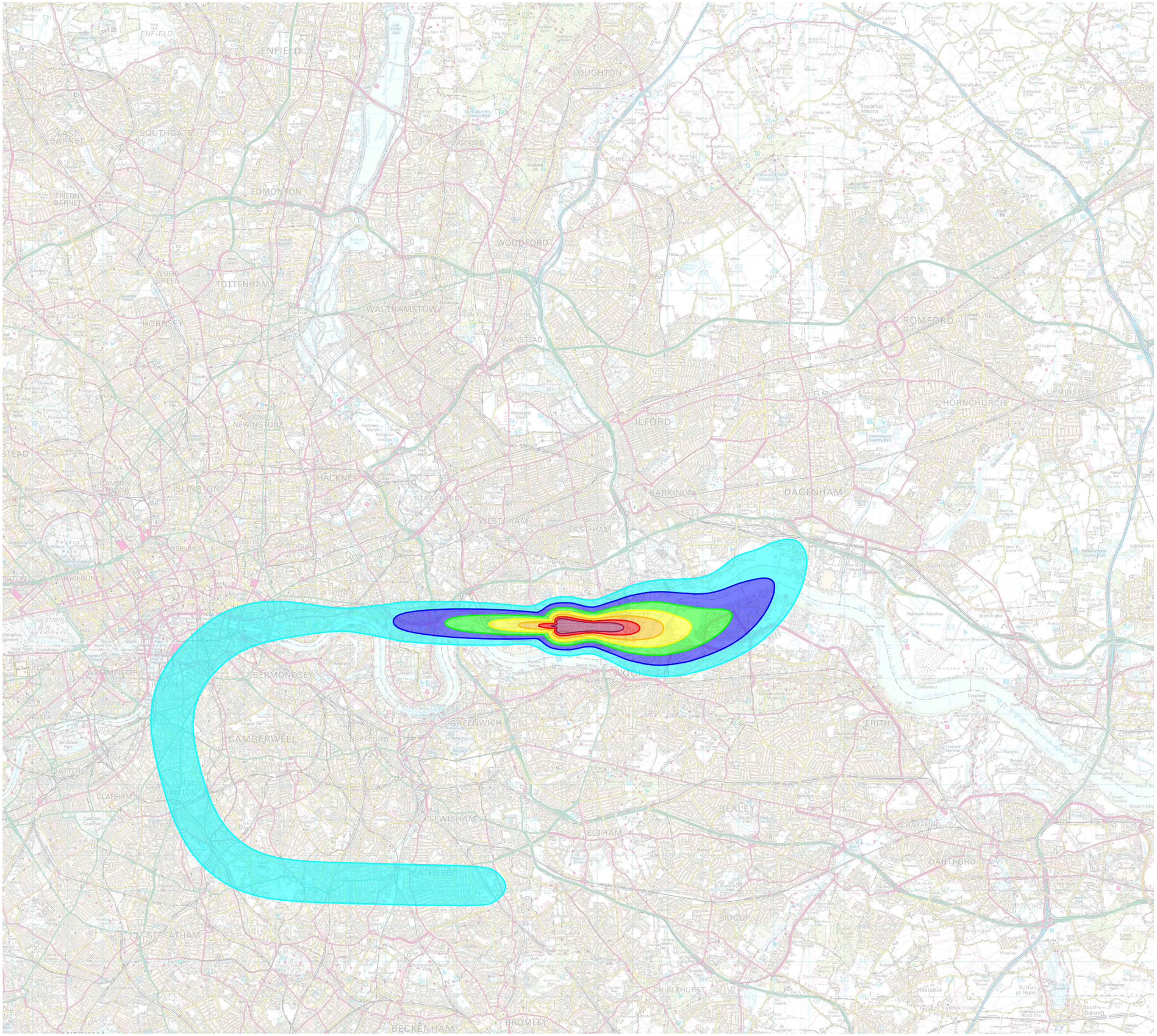
Figure 8.3.86
Easterly Mode Summer Day Noise Contours
2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR086_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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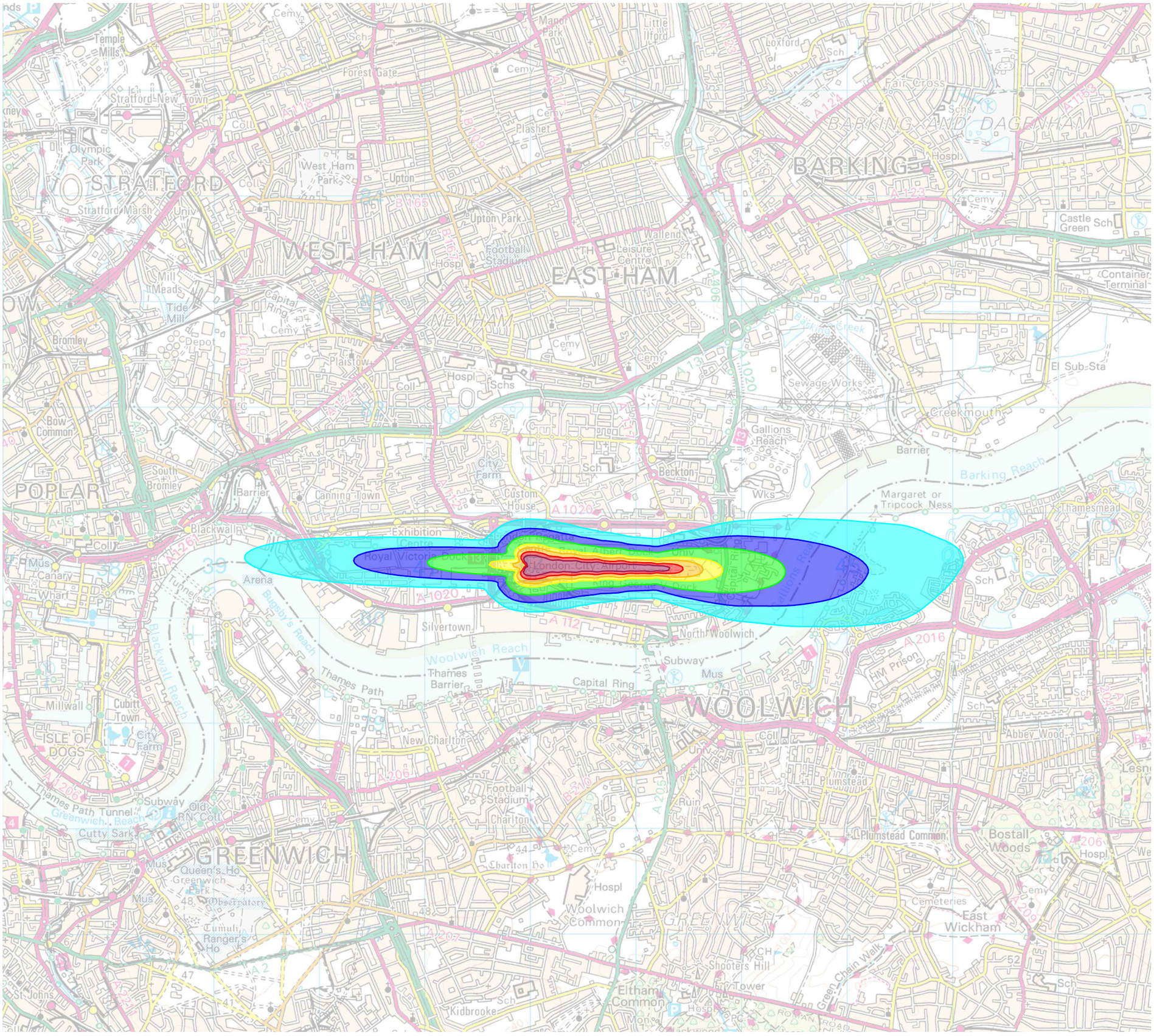
Figure 8.3.87
Easterly Mode Summer Day Noise Contours
2031 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR087_2.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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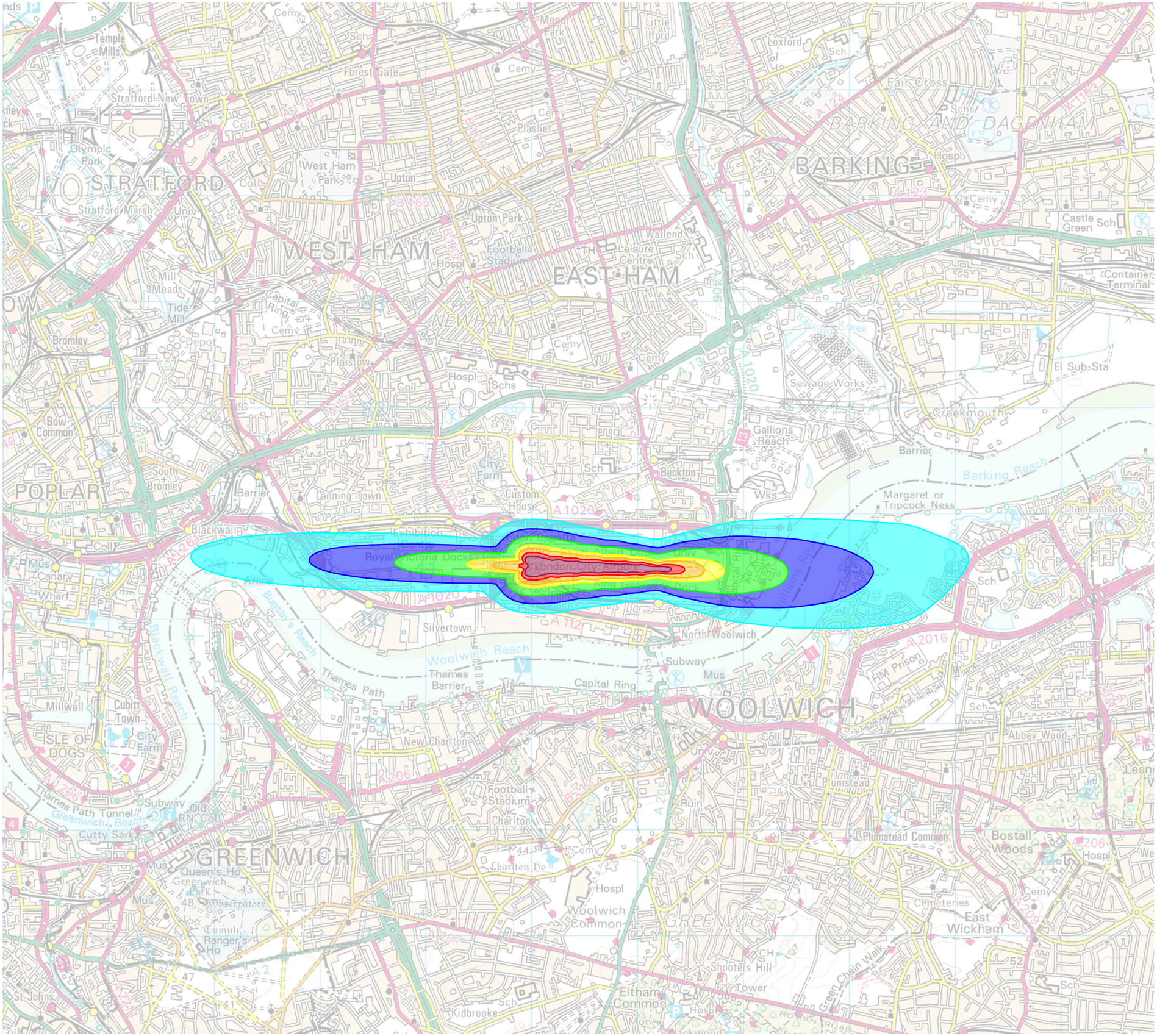
Figure 8.3.88
Easterly Mode Summer Night Noise Contours - 2019 Actual

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR088_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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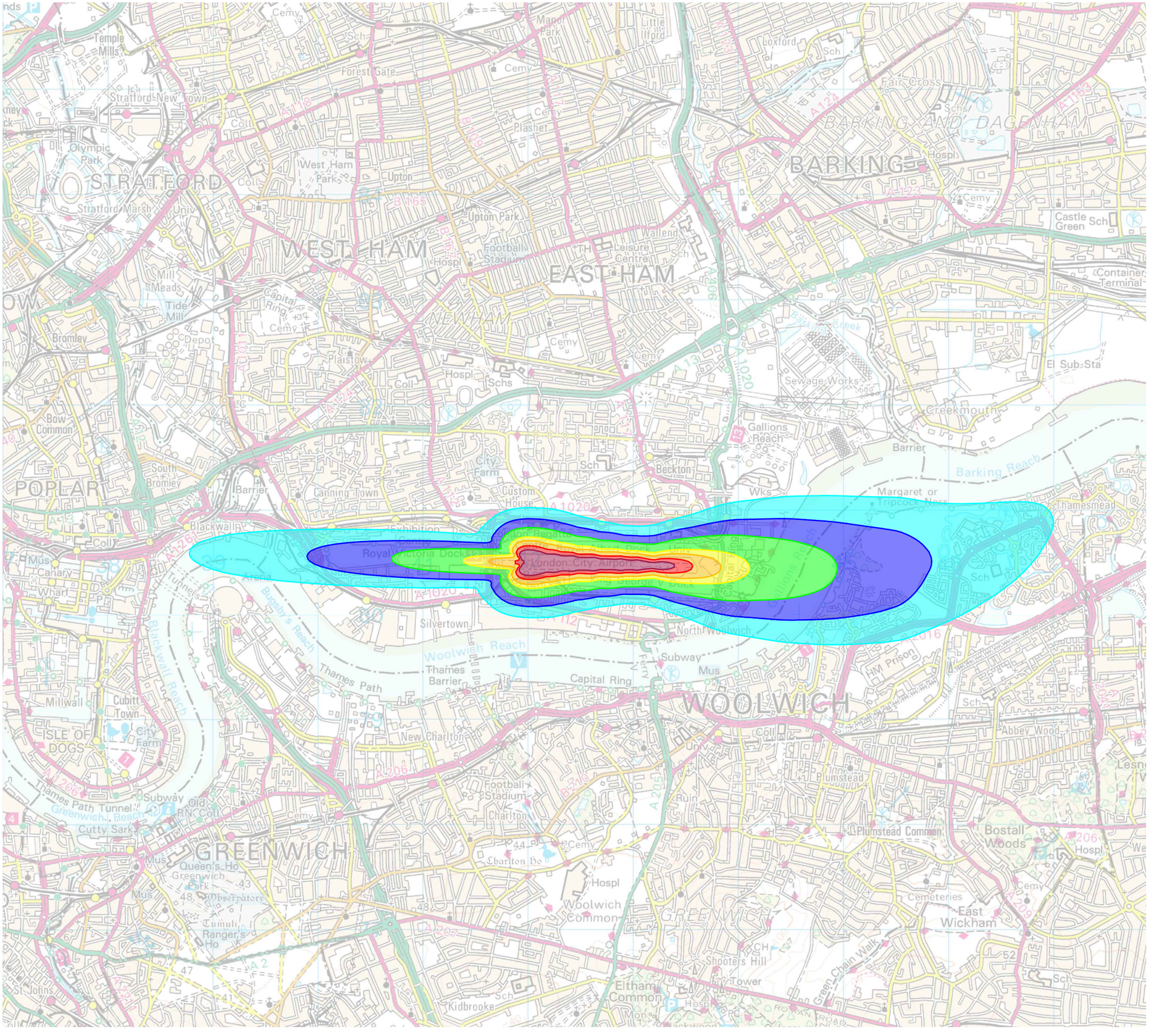
Figure 8.3.89
Easterly Mode Summer Night Noise Contours - 2025 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR089_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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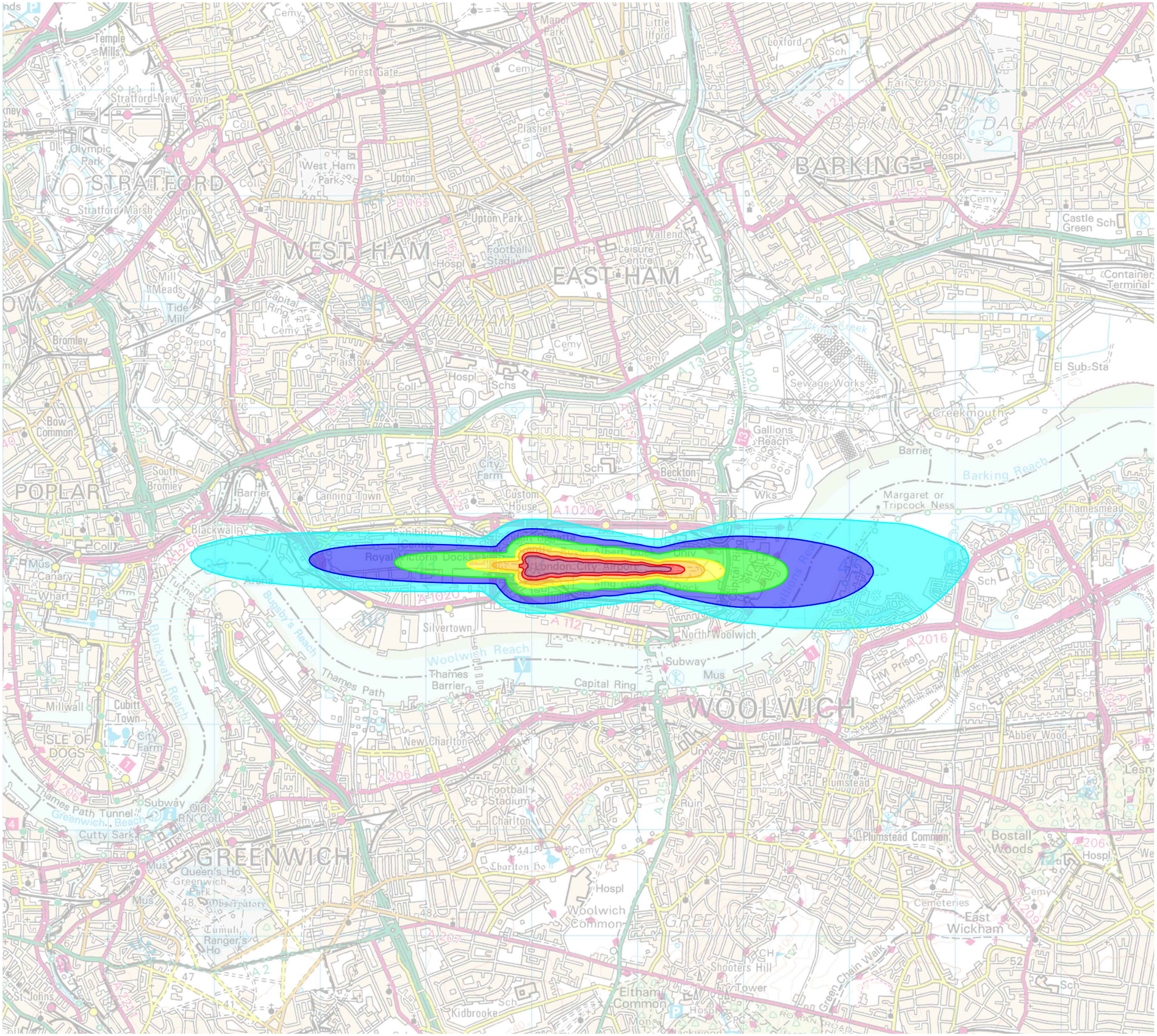
Figure 8.3.90
Easterly Mode Summer Night Noise Contours - 2025 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR090_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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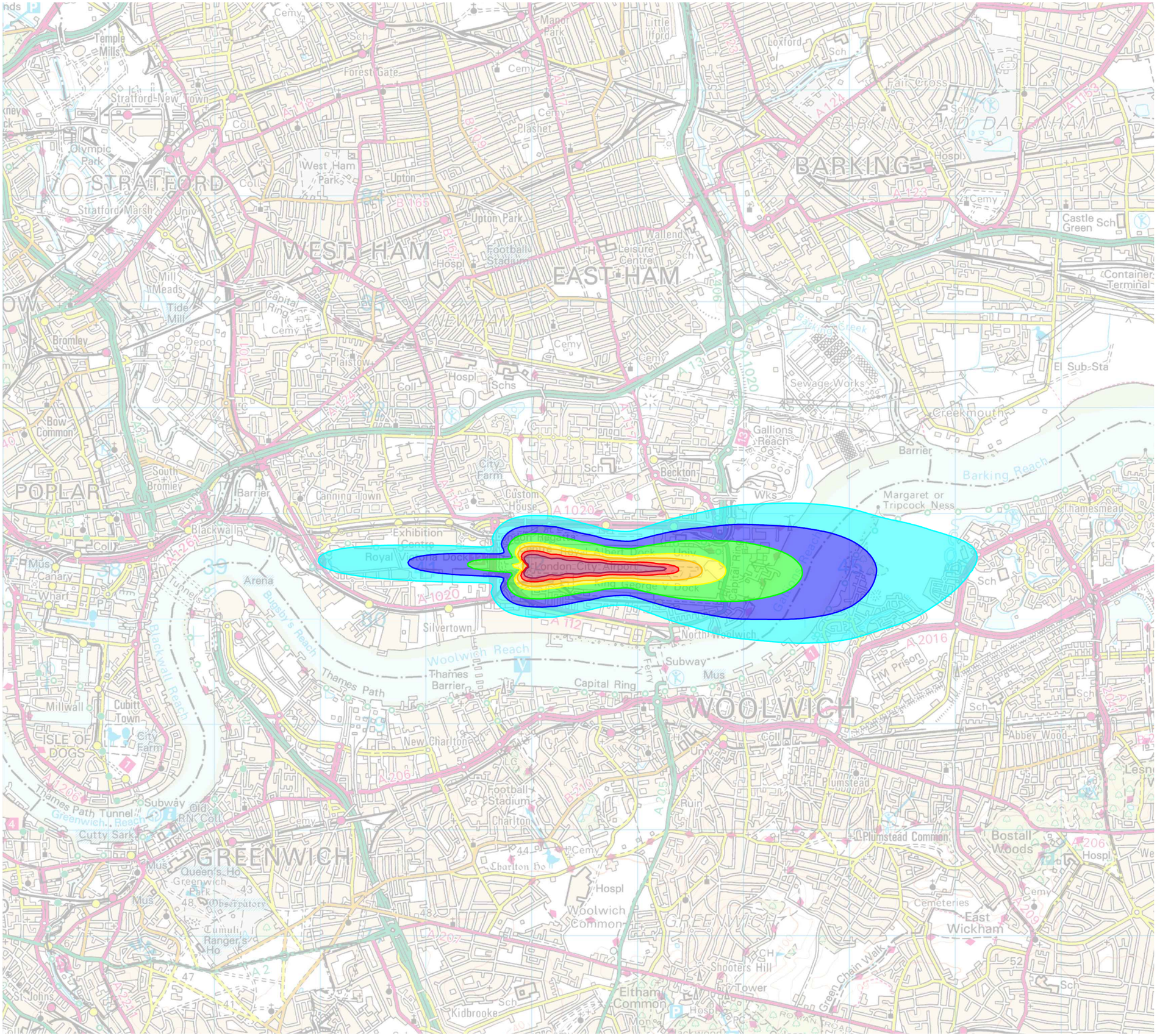
Figure 8.3.91
Easterly Mode Summer Night Noise Contours - 2027 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR091_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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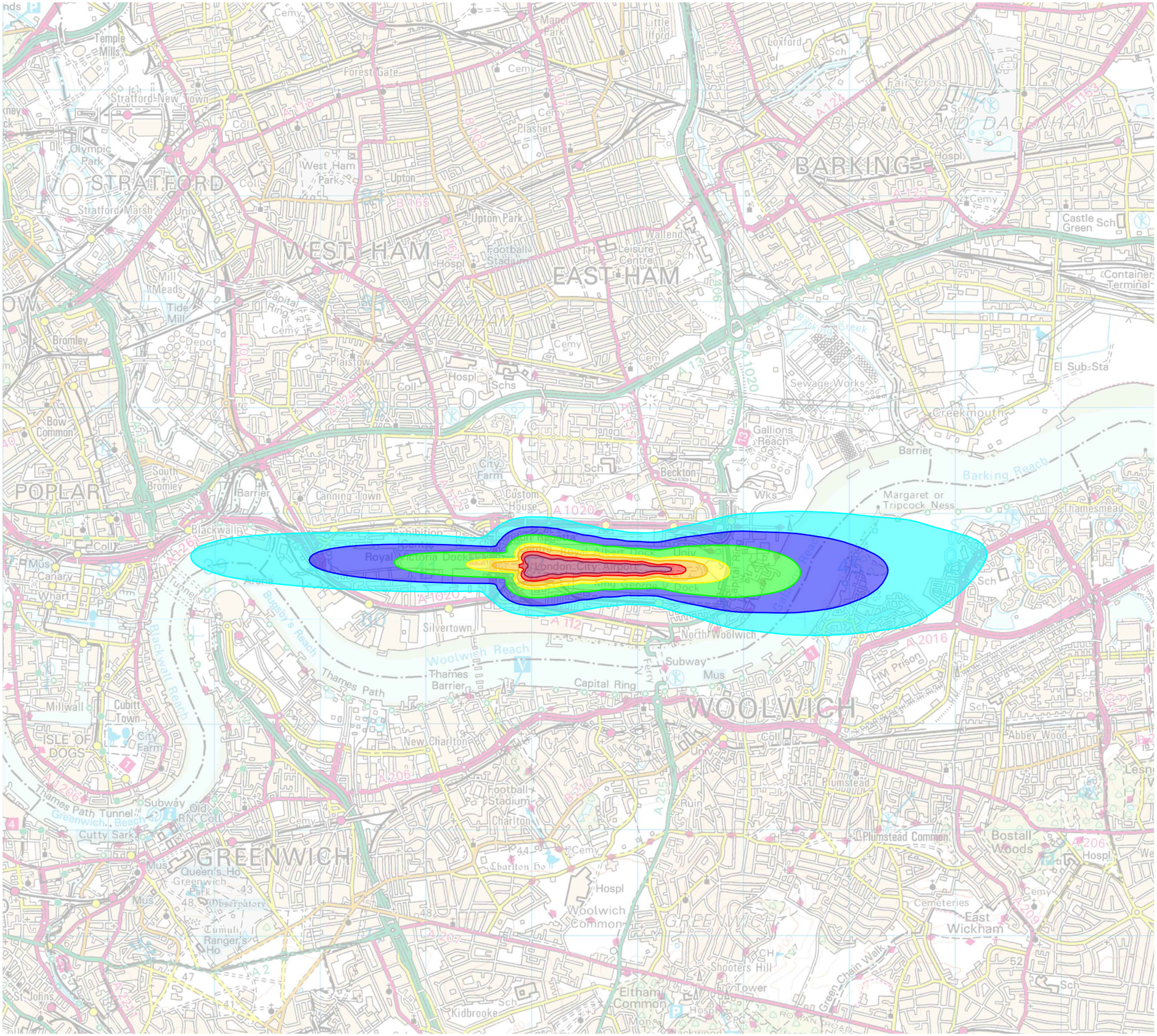
Figure 8.3.92
Easterly Mode Summer Night Noise Contours - 2027 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR092_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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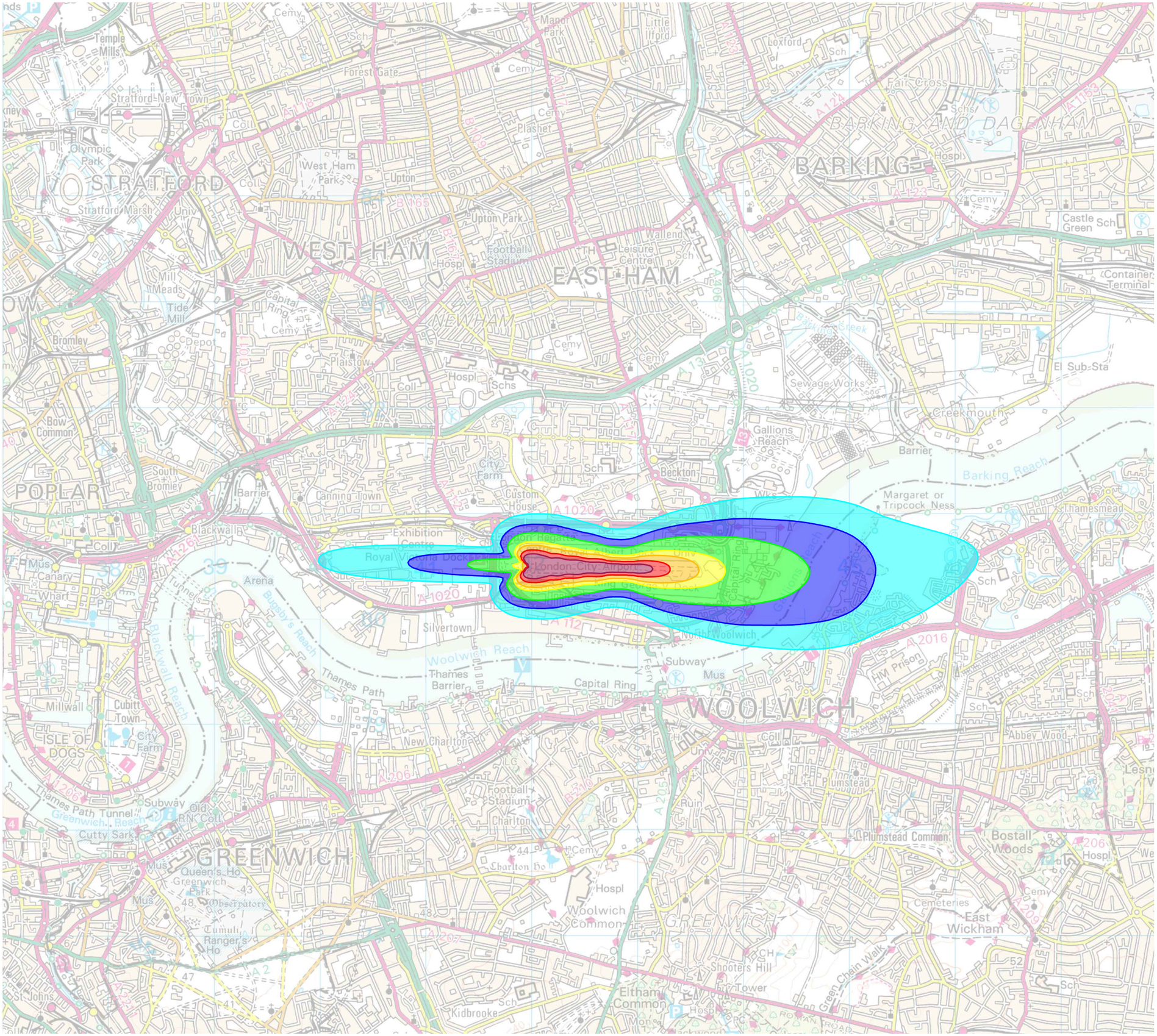
Figure 8.3.93
Easterly Mode Summer Night Noise Contours - 2031 DM Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR093_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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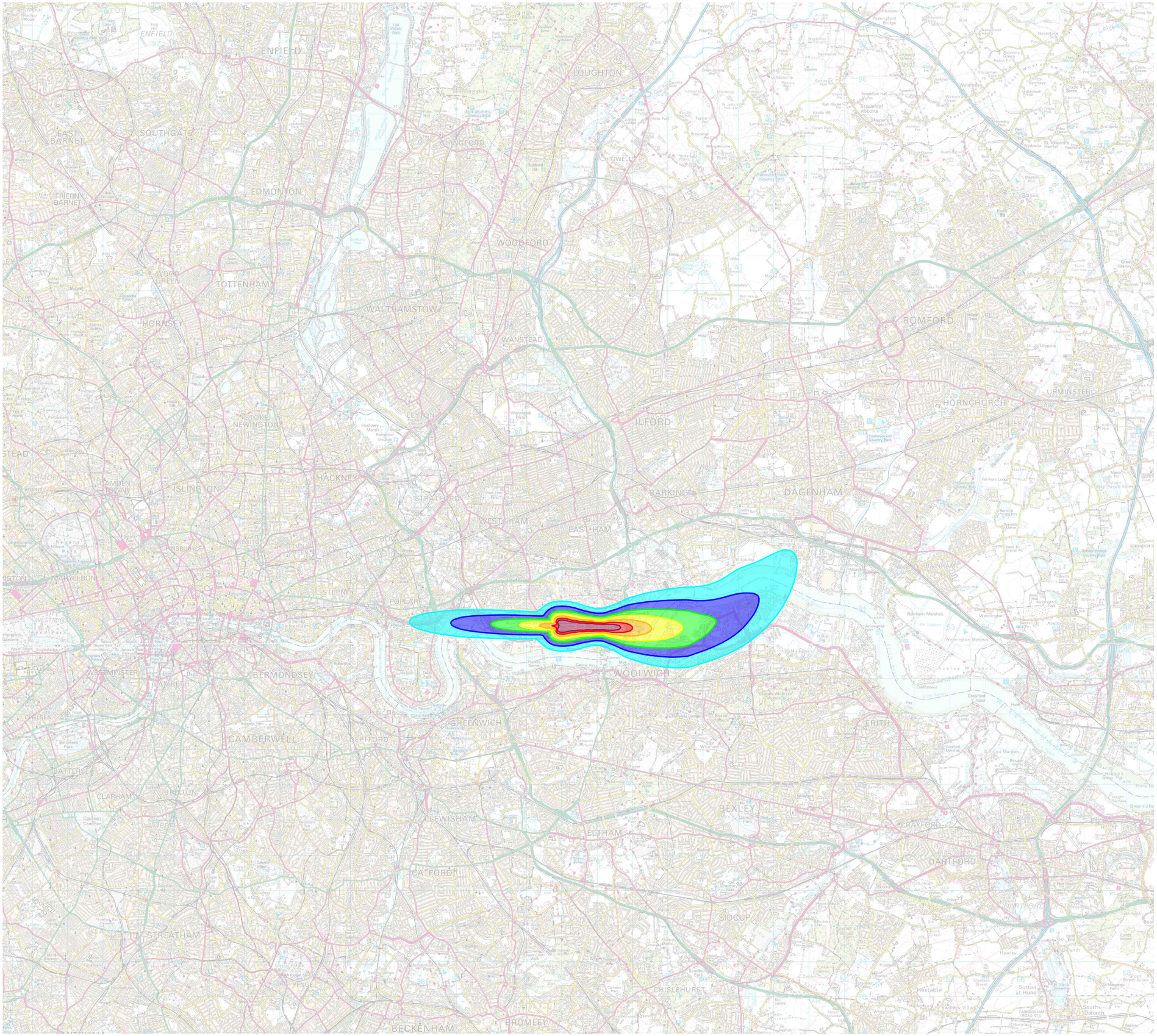
Figure 8.3.94
Easterly Mode Summer Night Noise Contours - 2031 DC Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR094_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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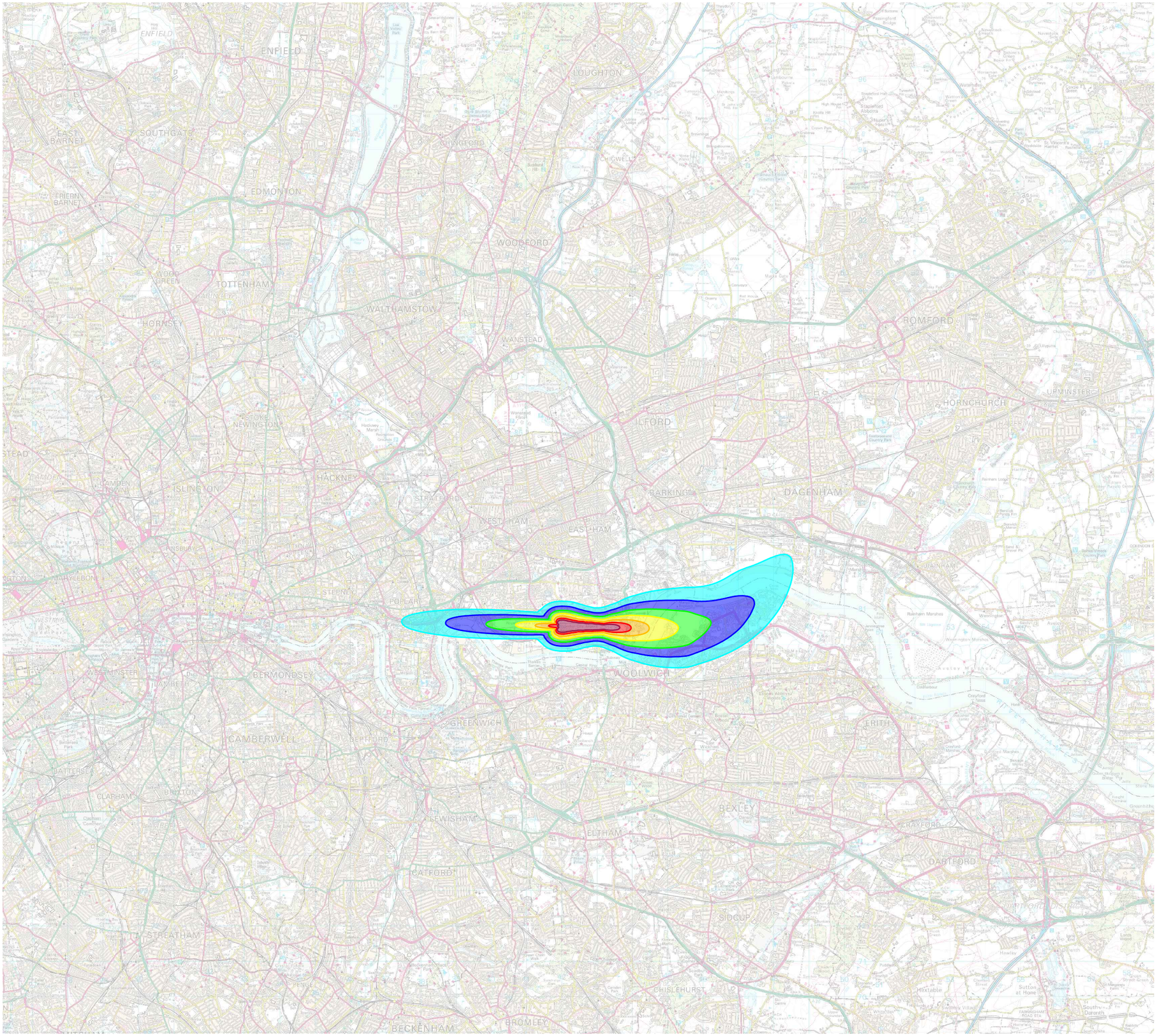
Figure 8.3.95
Easterly Mode Summer Weekend Noise Contours - 2019 Actual

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR095_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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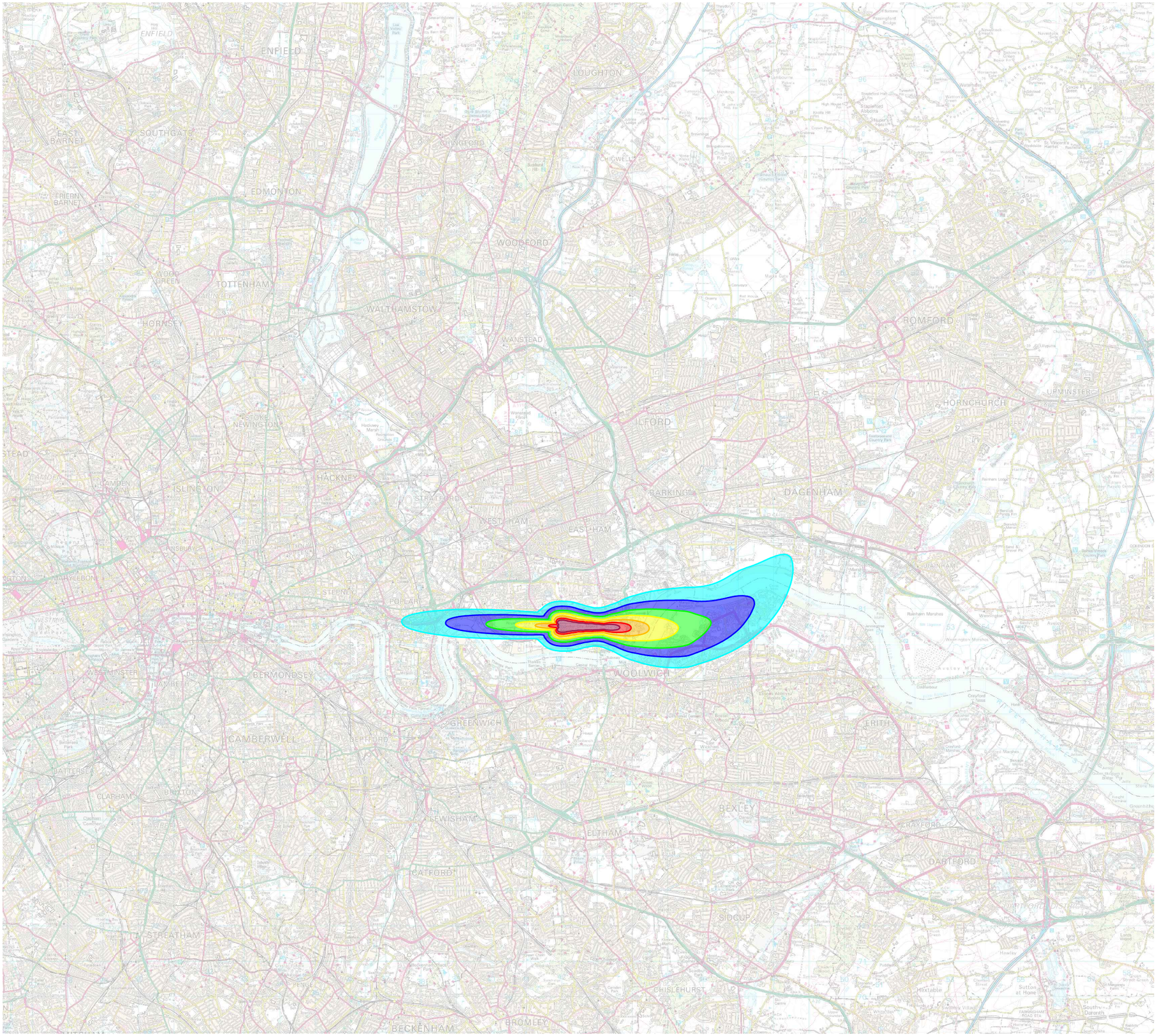
Figure 8.3.96
Easterly Mode Summer Weekend Noise Contours - 2025 DM Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR096_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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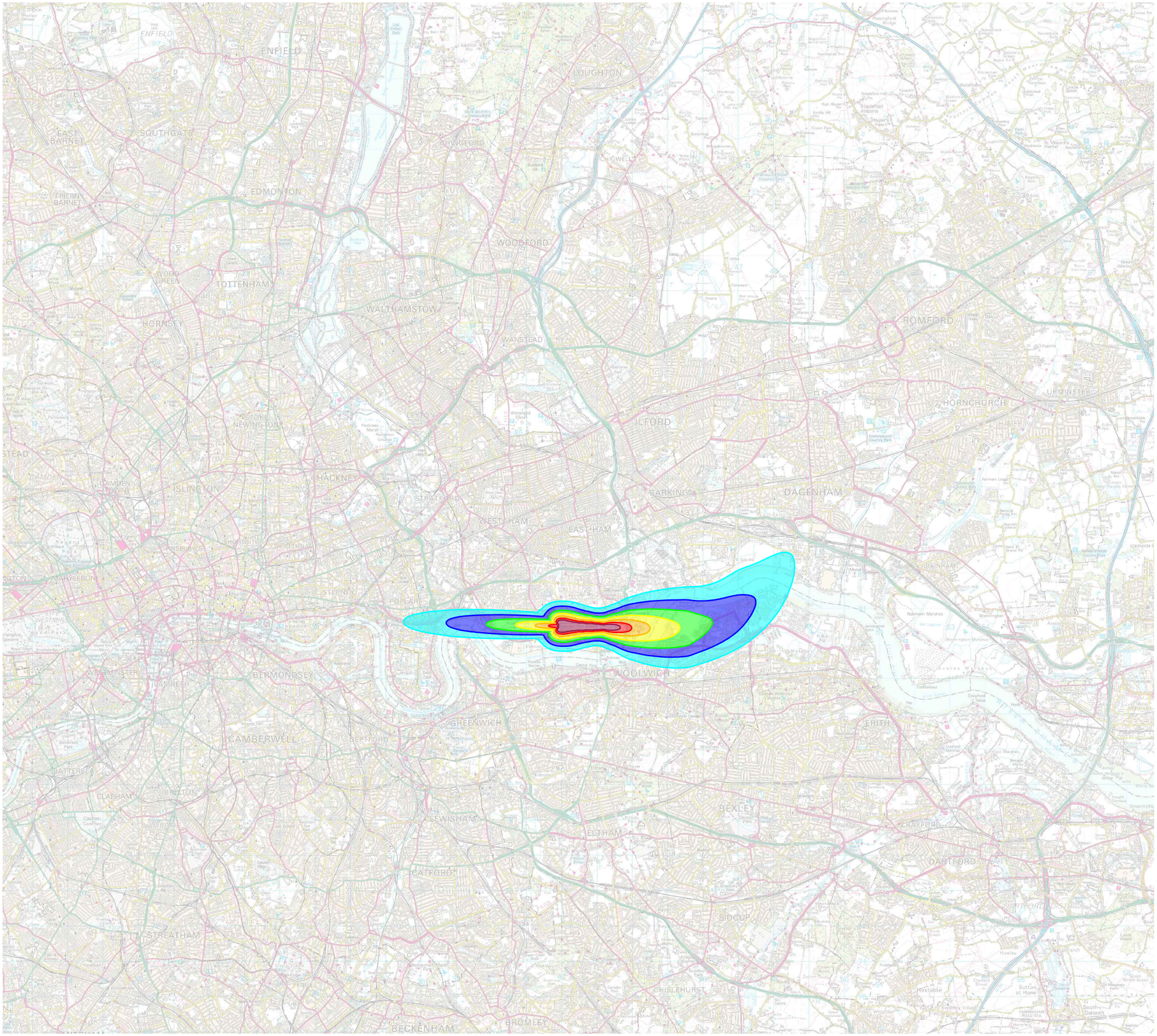
Figure 8.3.97
Easterly Mode Summer Weekend Noise Contours - 2025 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR097_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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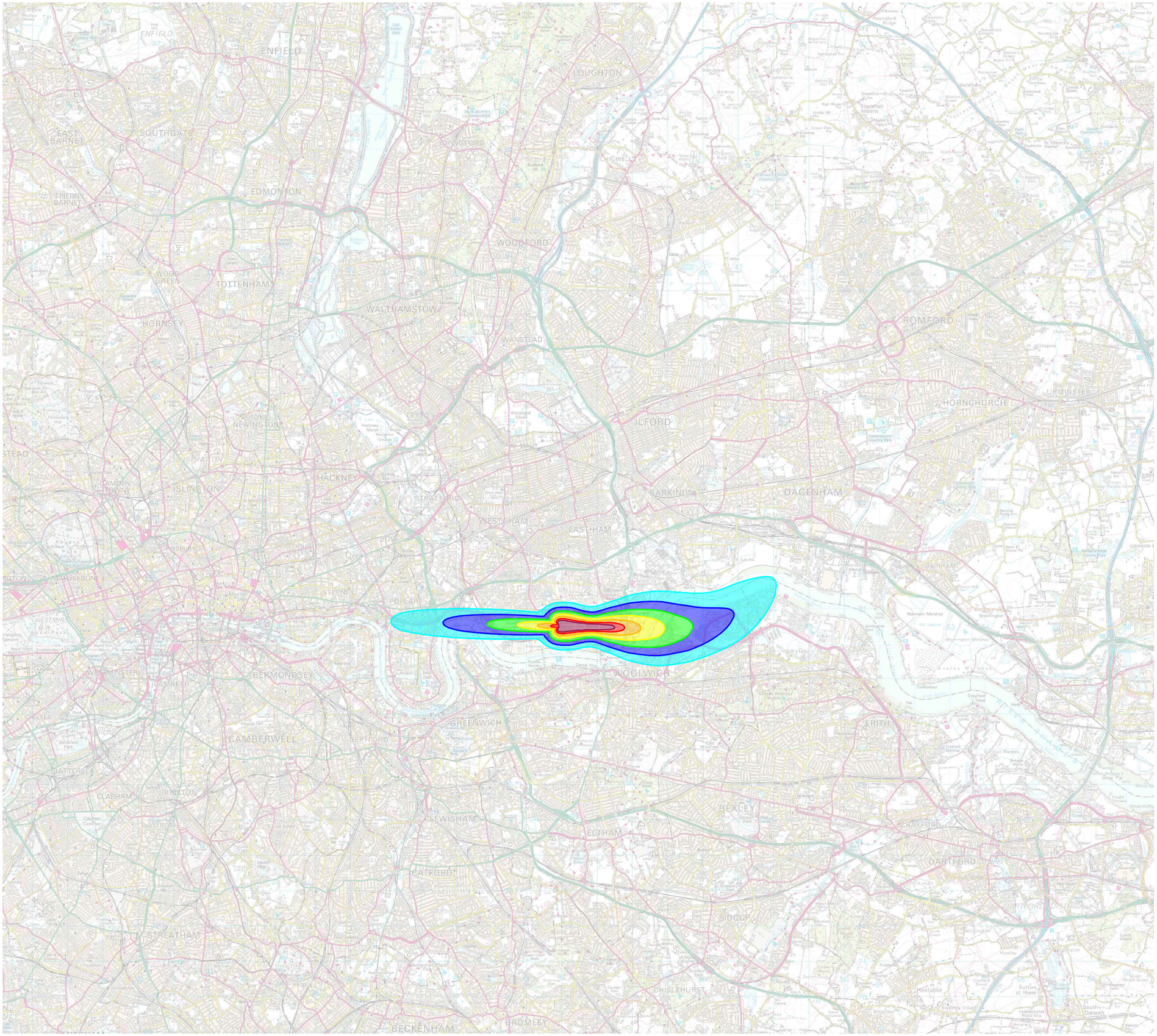
Figure 8.3.98
Easterly Mode Summer Weekend Noise Contours - 2027 DM Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR098_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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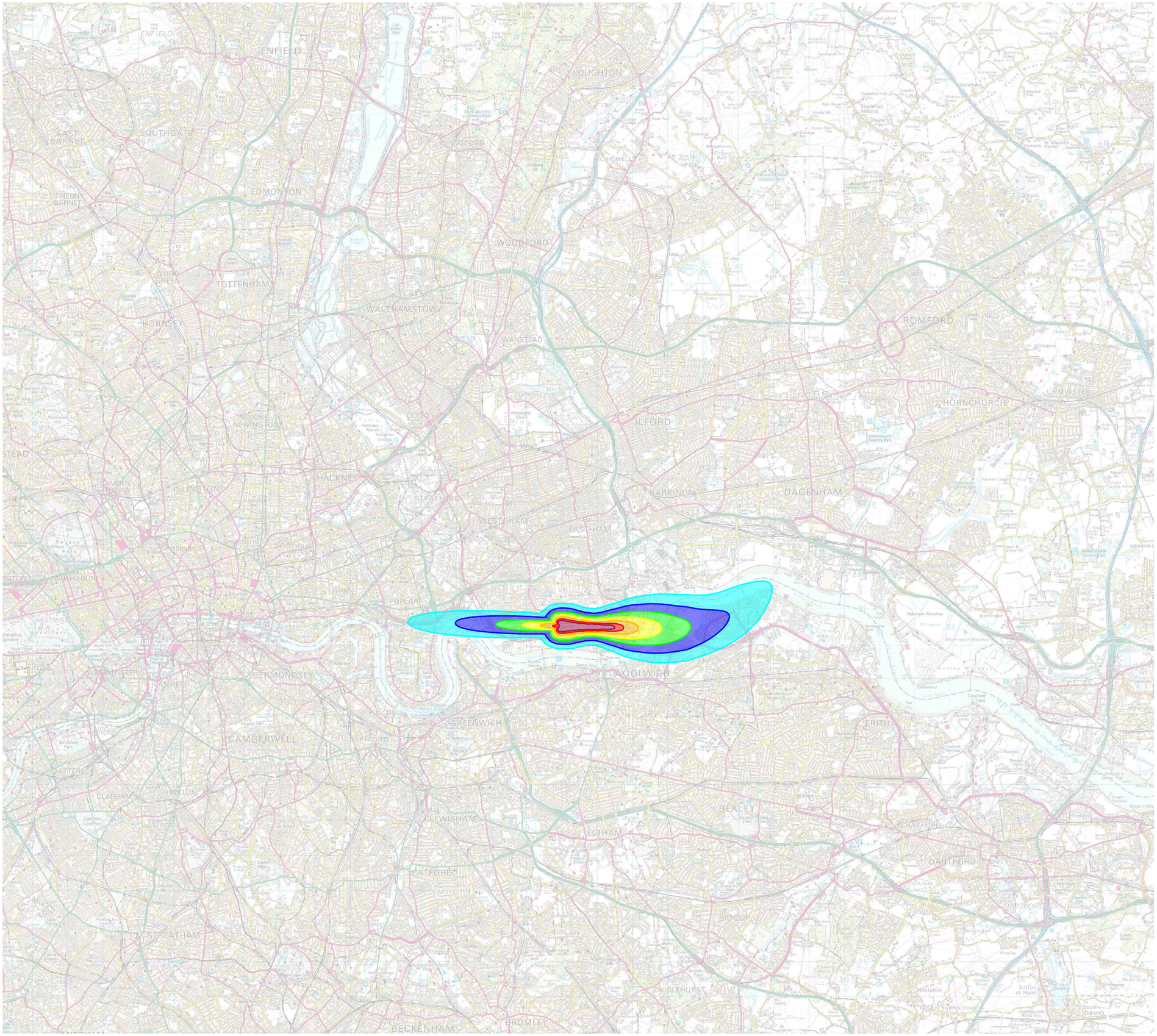
Figure 8.3.99
Easterly Mode Summer Weekend Noise Contours - 2027 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR099_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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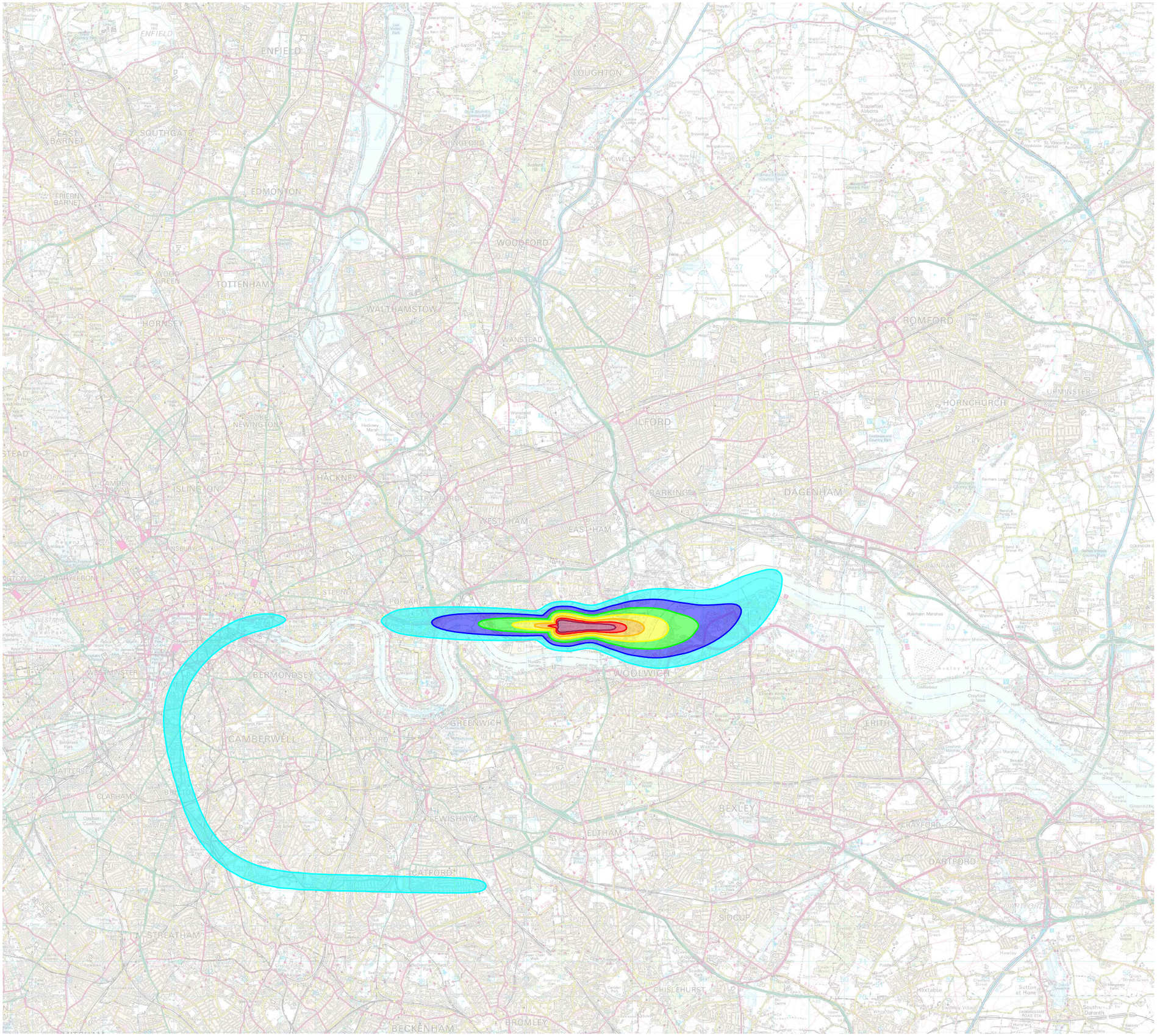
Figure 8.3.100
Easterly Mode Summer Weekend Noise Contours - 2031 DM Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR100_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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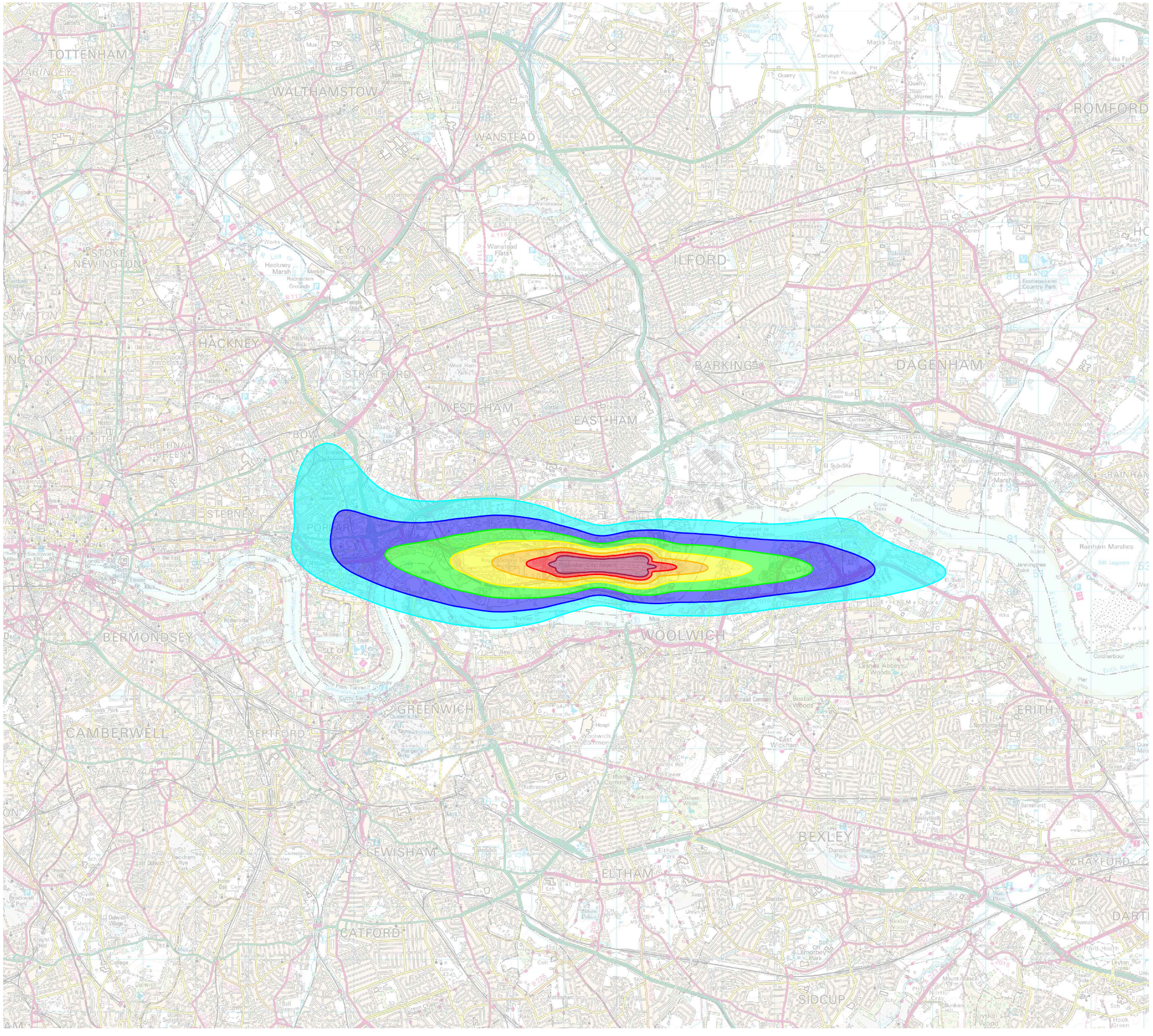
Figure 8.3.101
Easterly Mode Summer Weekend Noise Contours - 2031 DC Scenario

DRAWN: MP CHECKED: DR

DATE: December 2022 SCALE: 1:150,000@A4

FIGURE No:

A11407_09_DR0101_2.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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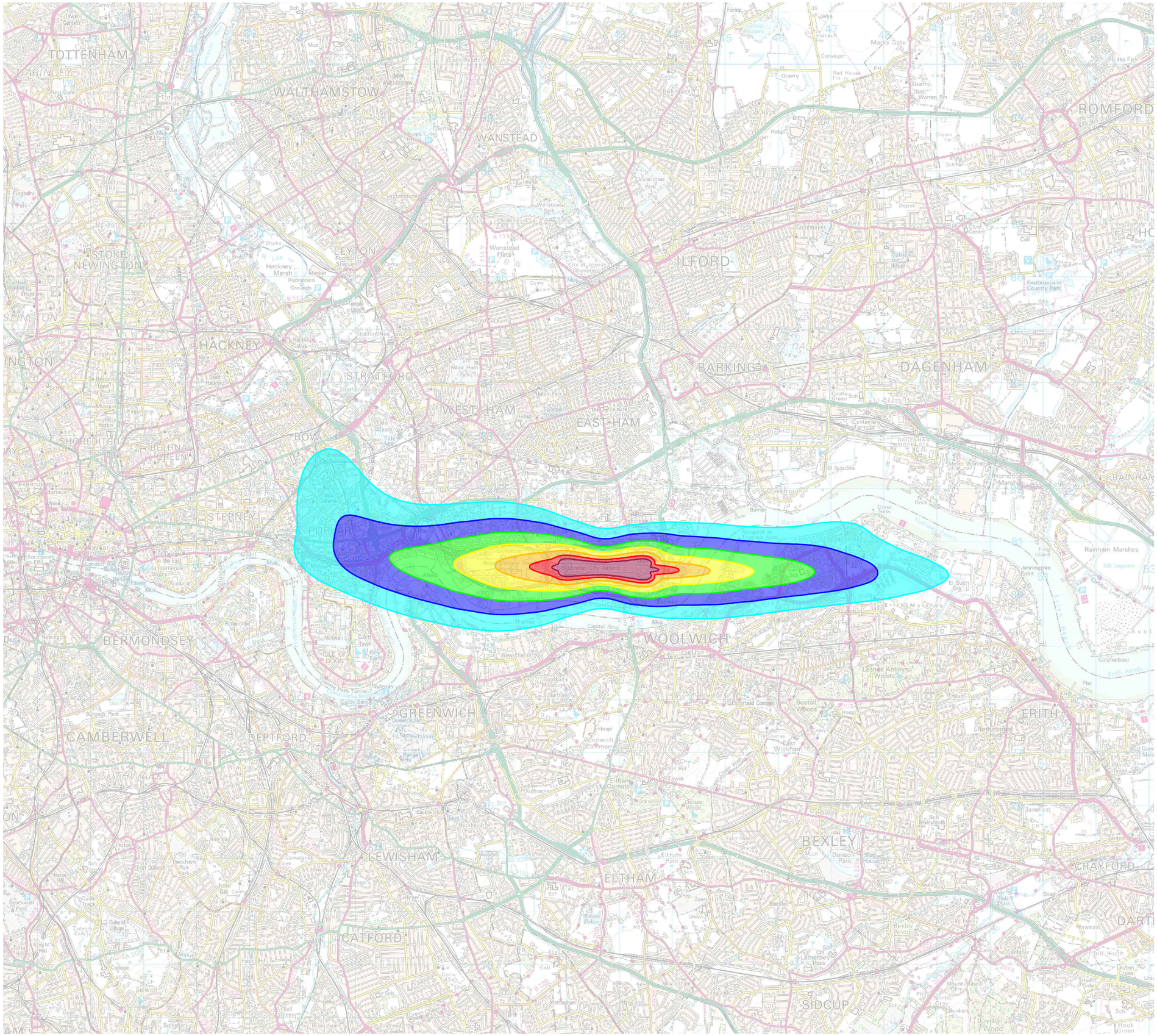
Figure 8.3.102
Average Mode Summer Day Noise Contours
2029 Faster Growth Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR0102_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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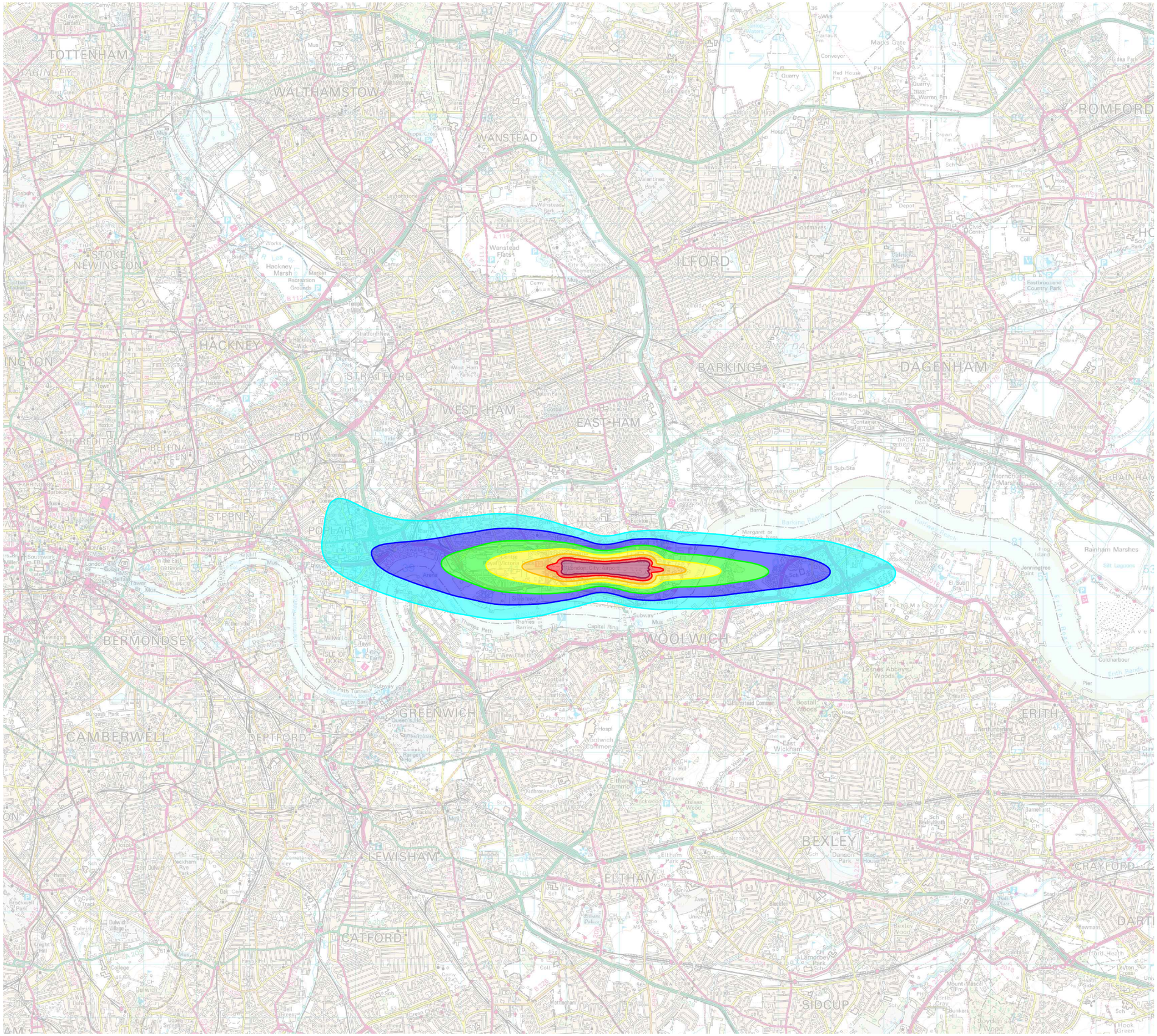
Figure 8.3.103
Average Mode Summer Day Noise Contours
2033 Slower Growth Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR0103_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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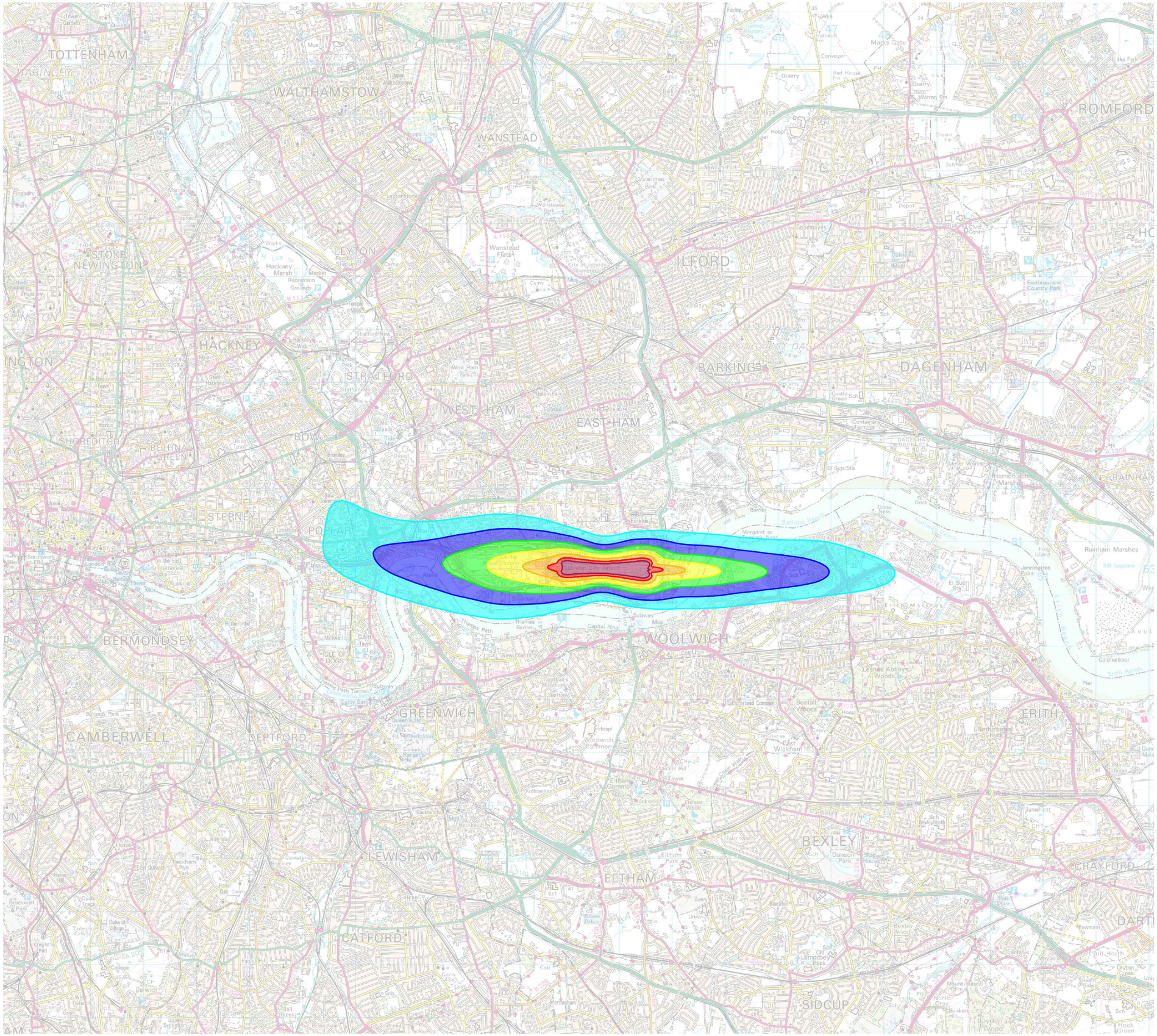
Figure 8.3.104
Average Mode Summer Weekend Noise Contours - 2029 Faster Growth Scenario

DRAWN: MG | CHECKED: DC

DATE: November 2022 | SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR0104_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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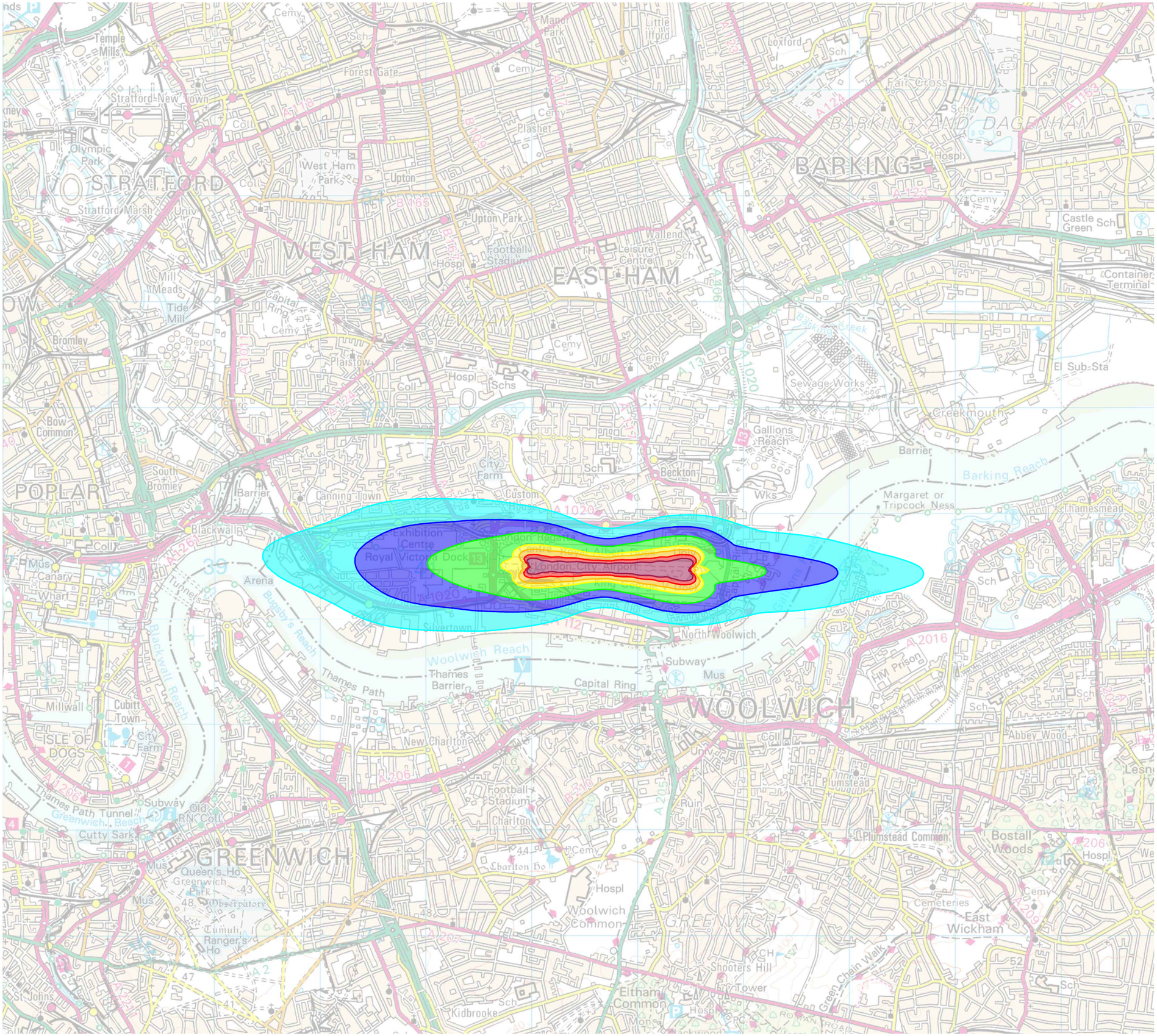
Figure 8.3.105
Average Mode Summer Weekend Noise Contours - 2033 Slower Growth Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR0105_1.0



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LEGEND:

- 45 - 47.9 dB(A) $L_{Aeq,8h}$
- 48 - 50.9 dB(A) $L_{Aeq,8h}$
- 51 - 54.9 dB(A) $L_{Aeq,8h}$
- 55 - 56.9 dB(A) $L_{Aeq,8h}$
- 57 - 59.9 dB(A) $L_{Aeq,8h}$
- 60 - 62.9 dB(A) $L_{Aeq,8h}$
- 63 + dB(A) $L_{Aeq,8h}$

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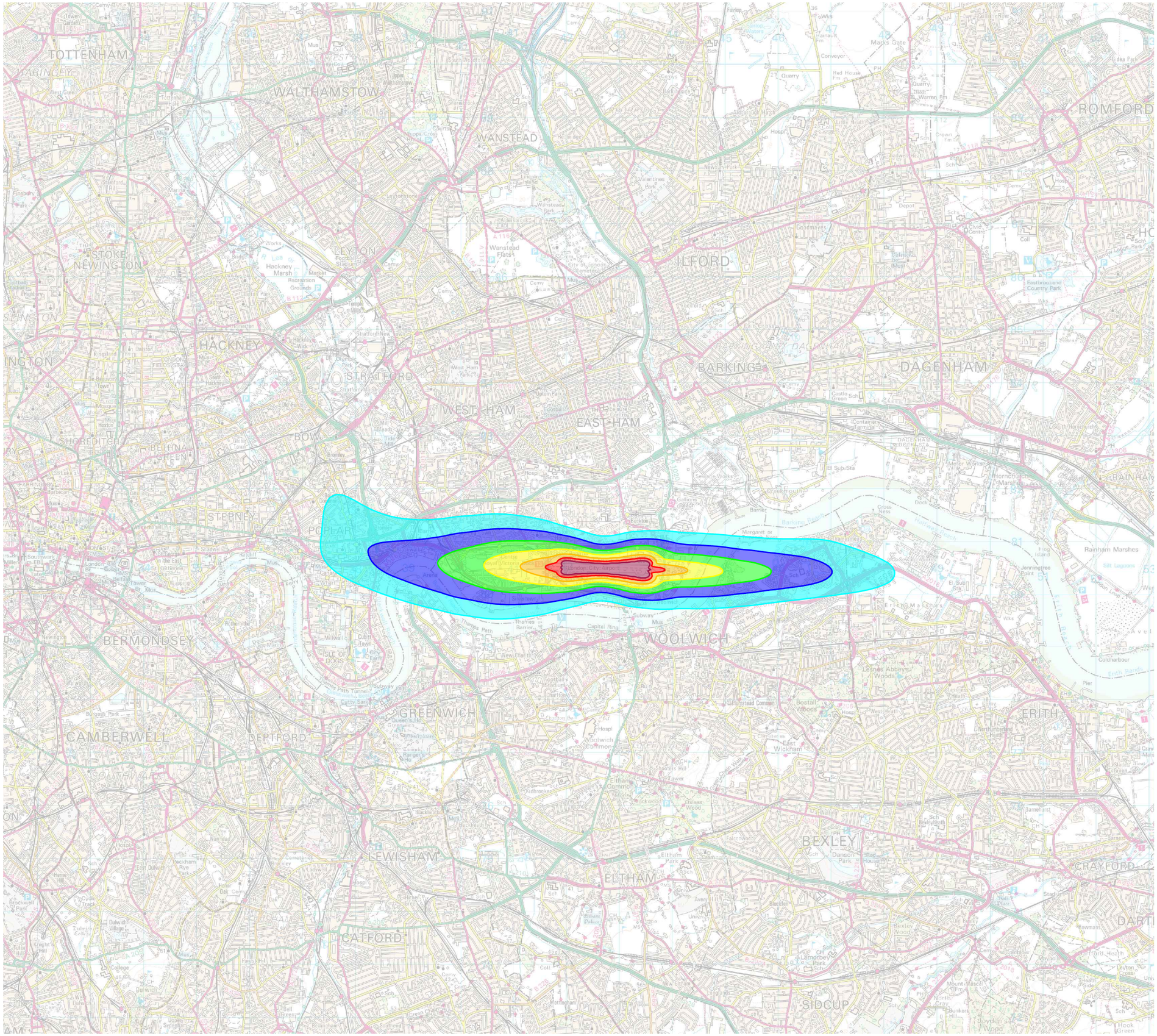
Figure 8.3.106
Average Mode Summer Night Noise Contours - 2031 Proposed Limit Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:50,000@A4

FIGURE No:

A11407_09_DR106_1.0



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LEGEND:

- 51 - 53.9 dB(A) $L_{Aeq,16h}$
- 54 - 56.9 dB(A) $L_{Aeq,16h}$
- 57 - 59.9 dB(A) $L_{Aeq,16h}$
- 60 - 62.9 dB(A) $L_{Aeq,16h}$
- 63 - 65.9 dB(A) $L_{Aeq,16h}$
- 66 - 68.9 dB(A) $L_{Aeq,16h}$
- 69 + dB(A) $L_{Aeq,16h}$

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Figure 8.3.107
Average Mode Summer Weekend Noise Contours - 2031 Alternative Fleet Mix Scenario

DRAWN: MG CHECKED: DC

DATE: November 2022 SCALE: 1:100,000@A4

FIGURE No:

A11407_09_DR0107_2.0