Glasgow Airport Airspace Change Proposal

Stage 3 Full Options Appraisal
Technical appendix

Consultation 20 October 2025 to 25 January 2026
ACP-2019-46

GLASGOW AIRPORT

Document navigation

WebTag Assessment Noise

GLASGOW AIRPORT

Noise Workbook – Option 1

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£10,957,107
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£6,893,216
Net present value of impact on amenity (£, 2024 prices):	£2,893,411
Net present value of impact on AMI (£, 2024 prices):	£5,026
Net present value of impact on stroke (£, 2024 prices):	£464,561
Net present value of impact on dementia (£, 2024 prices):	£700,893

Quantitative results

individuals experiencing increased daytime noise in forecast year:	4707
individuals experiencing reduced daytime noise in forecast year:	16421.84795
individuals experiencing increased night time noise in forecast year:	12454.57895
individuals experiencing reduced night time noise in forecast year:	32592

WebTag Assessment Noise

Noise Workbook – Option 2

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£11,321,318
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£6,988,712
Net present value of impact on amenity (£, 2024 prices):	£3,103,092
Net present value of impact on AMI (£, 2024 prices):	£10,271
Net present value of impact on stroke (£, 2024 prices):	£486,146
Net present value of impact on dementia (£, 2024 prices):	£733,097

Quantitative results

individuals experiencing increased daytime noise in forecast year:	10119.08039
individuals experiencing reduced daytime noise in forecast year:	22727.13231
individuals experiencing increased night time noise in forecast year:	17289.65933
individuals experiencing reduced night time noise in forecast year:	38328.28436

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GLASGOW AIRPORT

Noise Workbook – Option 3

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£15,982,511
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£9,815,598
Net present value of impact on amenity (£, 2024 prices):	£4,331,816
Net present value of impact on AMI (£, 2024 prices):	£6,512
Net present value of impact on stroke (£, 2024 prices):	£729,038
Net present value of impact on dementia (£, 2024 prices):	£1,099,546

Quantitative results

individuals experiencing increased daytime noise in forecast year:	11668.4269
individuals experiencing reduced daytime noise in forecast year:	23869.83772
individuals experiencing increased night time noise in forecast year:	24540.4269
individuals experiencing reduced night time noise in forecast year:	36871.83772

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GLASGOW AIRPORT

Noise Workbook – Option 4

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£16,339,763
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£9,910,300
Net present value of impact on amenity (£, 2024 prices):	£4,537,300
Net present value of impact on AMI (£, 2024 prices):	£11,758
Net present value of impact on stroke (£, 2024 prices):	£749,839
Net present value of impact on dementia (£, 2024 prices):	£1,130,565

<u>Quantitative results</u>

individuals experiencing increased daytime noise in forecast year:	17093.50728
individuals experiencing reduced daytime noise in forecast year:	30108.12207
individuals experiencing increased night time noise in forecast year:	29375.50728
individuals experiencing reduced night time noise in forecast year:	42574.12207

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Noise Workbook – Option 5

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£10,676,929
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£6,754,774
Net present value of impact on amenity (£, 2024 prices):	£2,794,248
Net present value of impact on AMI (£, 2024 prices):	£5,244
Net present value of impact on stroke (£, 2024 prices):	£447,511
Net present value of impact on dementia (£, 2024 prices):	£675,151

Quantitative results

individuals experiencing increased daytime noise in forecast year:	4846
individuals experiencing reduced daytime noise in forecast year:	16110.84795
individuals experiencing increased night time noise in forecast year:	12462.57895
individuals experiencing reduced night time noise in forecast year:	32182

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Noise Workbook – Option 6

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£11,156,944
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£6,901,759
Net present value of impact on amenity (£, 2024 prices):	£3,048,070
Net present value of impact on AMI (£, 2024 prices):	£10,213
Net present value of impact on stroke (£, 2024 prices):	£477,241
Net present value of impact on dementia (£, 2024 prices):	£719,662

Quantitative results

individuals experiencing increased daytime noise in forecast year:	10245.08039
individuals experiencing reduced daytime noise in forecast year:	22504.13231
individuals experiencing increased night time noise in forecast year:	17289.65933
individuals experiencing reduced night time noise in forecast year:	38050.28436

WebTag Assessment Noise

GLASGOW AIRPORT

Noise Workbook – Option 7

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£15,750,714
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£9,684,942
Net present value of impact on amenity (£, 2024 prices):	£4,260,856
Net present value of impact on AMI (£, 2024 prices):	£6,731
Net present value of impact on stroke (£, 2024 prices):	£716,933
Net present value of impact on dementia (£, 2024 prices):	£1,081,252

<u>Quantitative results</u>

individuals experiencing increased daytime noise in forecast year:	11694.4269
individuals experiencing reduced daytime noise in forecast year:	23577.83772
individuals experiencing increased night time noise in forecast year:	24548.4269
individuals experiencing reduced night time noise in forecast year:	36499.83772

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Noise Workbook – Option 8

Proposal Name:	Glasgow Airport ACP
Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road, Rail or Aviation):	aviation

	WebTAG assessment
Net present value of change in noise (£, 2024 prices):	£16,229,349
	*positive value reflects a net benefit (i.e. a reduction in noise)
Net present value of impact on sleep disturbance (£, 2024 prices):	£9,830,547
Net present value of impact on amenity (£, 2024 prices):	£4,514,678
Net present value of impact on AMI (£, 2024 prices):	£11,700
Net present value of impact on stroke (£, 2024 prices):	£746,662
Net present value of impact on dementia (£, 2024 prices):	£1,125,763

Quantitative results

individuals experiencing increased daytime noise in forecast year:	17093.50728
individuals experiencing reduced daytime noise in forecast year:	29971.12207
individuals experiencing increased night time noise in forecast year:	29375.50728
individuals experiencing reduced night time noise in forecast year:	42368.12207

WebTag Assessment Greenhouse Gasses

GLASGOW AIRPORT

Greenhouse Gases Workbook – Option 1

Scheme Name: Glasgow Airport ACP Option 1

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £24,597,919

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -110,558

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -89,146

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,832

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £18,285,765

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8940	-44664	-35541
Non-traded sector	0	0	0	-892	-8571	-11949

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£38,838,090
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,850,157

WebTag Assessment Greenhouse Gasses

GLASGOW AIRPORT

Greenhouse Gases Workbook – Option 2

Scheme Name: Glasgow Airport ACP Option 2

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £24,056,994

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -108,339

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -87,829

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,613

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £18,016,133

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8811	-44012	-35006
Non-traded sector	0	0	0	-802	-8123	-11585

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£37,997,968
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,601,069

WebTag Assessment Greenhouse Gasses

Greenhouse Gases Workbook – Option 3

Scheme Name: Glasgow Airport ACP Option 3

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £23,560,119

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -106,301

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -86,619

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,415

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £17,768,458

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8694	-43414	-34511
Non-traded sector	0	0	0	-721	-7712	-11249

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£37,226,267
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,372,241

WebTag Assessment Greenhouse Gasses

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Greenhouse Gases Workbook – Option 4

Scheme Name: Glasgow Airport ACP Option 4

Present Value Base Year	2024
Current Year	2024
Proposal Opening year:	2027
Project (Road/Rail or Road and Rail):	Road

Unit of account: Market prices

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £23,010,552

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -104,047

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -85,281

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,197

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £17,494,518

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8565	-42752	-33964
Non-traded sector	0	0	0	-632	-7258	-10876

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£36,372,728
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,119,145

WebTag Assessment Greenhouse Gasses

GLASGOW AIRPORT

Greenhouse Gases Workbook – Option 5

Scheme Name: Glasgow Airport ACP Option 5

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £24,069,202

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -108,390

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -87,859

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,618

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £18,022,218

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8814	-44027	-35019
Non-traded sector	0	0	0	-804	-8133	-11593

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£38,016,928
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,606,691

WebTag Assessment Greenhouse Gasses

GLASGOW AIRPORT

Greenhouse Gases Workbook – Option 6

Scheme Name: Glasgow Airport ACP Option 6

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £23,519,634

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -106,135

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -86,520

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,399

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £17,748,278

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8684	-43365	-34471
Non-traded sector	0	0	0	-715	-7679	-11221

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£37,163,389
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,353,596

WebTag Assessment Greenhouse Gasses

GLASGOW AIRPORT

Greenhouse Gases Workbook – Option 7

Scheme Name: Glasgow Airport ACP Option 7

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £23,022,760

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -104,097

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -85,311

Change in carbon dioxide equivalent emissions in opening year (tonnes): -9,202

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £17,500,603

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8568	-42767	-33976
Non-traded sector	0	0	0	-634	-7268	-10885

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£36,391,689
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£10,124,767

WebTag Assessment Greenhouse Gasses

Greenhouse Gases Workbook – Option 8

Scheme Name: Glasgow Airport ACP Option 8

Present Value Base Year	2024	Unit of account	Market prices
Current Year	2024		
Proposal Opening year:	2027		
Project (Road/Rail or Road and Rail):	Road		

Overall Assessment Score:

Net Present Value of carbon dioxide equivalent emissions of proposal (£): £22,473,192

(Sum of traded and non-traded emissions - see note below on accounting for UK allowances in the traded sector)

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Quantitative Assessment:

Change in carbon dioxide equivalent emissions over 60 year appraisal period (tonnes): -101,842

(between 'with scheme' and 'without scheme' scenarios)

*negative value reflects a **net benefit** (CO2e emissions reduction)

Of which Traded -83,972

Change in carbon dioxide equivalent emissions in opening year (tonnes): -8,983

(between 'with scheme' and 'without scheme' scenarios)

Net Present Value of traded sector carbon dioxide equivalent emissions of proposal (£): £17,226,663

*N.B. This value has been adjusted to account for the cost of emissions covered by the UK Emissions Trading Scheme (UK ETS), **under the assumption that all assessed traded emissions are within the scope of the UK ETS**. For further information, including guidance on the valuation of traded emissions outside the scope of the UK ETS, please refer to TAG Unit A3, section 4.1.*

*positive value reflects a **net benefit** (i.e. CO2e emissions reduction)

Change in carbon dioxide equivalent emissions by carbon budget period:

	Carbon Budget 1	Carbon Budget 2	Carbon Budget 3	Carbon Budget 4	Carbon Budget 5	Carbon Budget 6
Traded sector	0	0	0	-8438	-42106	-33428
Non-traded sector	0	0	0	-544	-6813	-10512

Sensitivity Analysis (Traded and non-traded)**:**

Upper Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£35,538,150
Lower Estimate Net Present Value of Carbon dioxide Emissions of Proposal (£):	£9,871,672

Noise Contour Data

Scenario: Without airspace change

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2022	Without airspace change	LAEQ16HR	51	36.9	55900	26500	26	0	12	26	76
			54	18.9	23100	10900	5	0	4	10	29
			57	9.5	5200	2500	0	0	0	2	9
			60	4.8	900	500	0	0	0	1	2
			63	2.6	<100	<100	0	0	0	0	0
			66	1.5	0	0	0	0	0	0	0
			69	0.9	0	0	0	0	0	0	0
2027	Without airspace change	LAEQ16HR	51	44.7	68700	32400	35	0	14	30	88
			54	23.0	31000	14700	11	0	5	17	35
			57	11.8	8600	4000	2	0	0	4	13
			60	5.8	1500	800	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.7	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Without airspace change	LAEQ16HR	51	47.6	72600	34200	37	0	15	34	91
			54	24.9	34500	16300	14	0	6	19	36
			57	12.7	10400	4900	4	0	0	5	14
			60	6.3	1900	1000	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: Without airspace change

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2022	Without airspace change	LAEQ8HR	45	67.8	89200	42000	47	0	19	45	122
			48	37.1	53800	25500	26	0	12	25	64
			51	18.3	20000	9800	8	0	4	12	26
			54	8.7	2100	1100	0	0	0	2	6
			55	6.9	1000	500	0	0	0	1	5
			57	4.5	<100	<100	0	0	0	0	2
			60	2.6	<100	<100	0	0	0	0	0
			63	1.5	0	0	0	0	0	0	0
2027	Without airspace change	LAEQ8HR	45	71.7	92700	43600	48	0	20	49	128
			48	39.4	56800	27000	28	0	13	26	70
			51	19.5	22800	11100	9	0	5	14	28
			54	9.3	2800	1300	0	0	0	2	6
			55	7.4	1400	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.7	<100	<100	0	0	0	0	0
			63	1.5	0	0	0	0	0	0	0
2036	Without airspace change	LAEQ8HR	45	75.5	97200	45600	48	0	21	52	132
			48	41.9	59800	28400	29	0	13	26	76
			51	20.9	26300	12700	11	0	5	16	31
			54	10.0	3500	1700	0	0	0	2	6
			55	7.9	1700	900	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0

Noise Contour Data

Scenario: Without airspace change

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2022	Without airspace change	N65	5	116.2	133000	63300	57	0	29	71	340
			10	87.3	106500	50000	51	0	24	58	146
			20	63.5	84700	39800	46	0	19	45	121
			50	34.1	47200	22000	19	0	11	24	73
			100	3.4	<100	<100	0	0	0	0	3
2027	Without airspace change	N65	5	133.9	148100	70600	59	0	32	76	429
			10	101.3	114100	53900	52	0	26	59	192
			20	72.3	92000	43100	49	0	21	47	129
			50	41.0	55600	26100	23	0	12	31	88
			100	10.5	11300	5200	3	0	0	5	16
			200	0.6	0	0	0	0	0	0	0
2036	Without airspace change	N65	5	138.6	150500	71600	60	0	32	78	438
			10	104.8	117700	55800	52	0	28	60	205
			20	76.0	94800	44500	50	0	21	49	131
			50	43.6	58700	27600	25	0	13	32	89
			100	13.2	16800	7600	4	0	1	7	20
			200	0.8	0	0	0	0	0	0	0

Noise Contour Data

Scenario: Without airspace change

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2022	Without airspace change	N60	5	124.7	138700	66900	59	0	30	77	386
			10	70.2	88400	41800	48	0	20	44	125
			20	5.9	500	300	0	0	0	0	4
2027	Without airspace change	N60	5	132.0	144500	69700	62	0	30	83	445
			10	74.9	98400	46700	50	0	20	50	140
			20	11.5	3000	1400	1	0	0	0	5
2036	Without airspace change	N60	5	136.7	146900	70700	63	0	30	84	461
			10	81.8	101800	48300	50	0	22	52	147
			20	13.4	4400	2100	6	0	0	1	6

Noise Contour Data

Scenario: Without airspace change

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2022	Without airspace change	Overflights_Day	5	476.6	398000	186100	172	2	66	218	1359
			10	231.9	236200	108700	108	1	46	136	456
			20	126.7	151200	69300	63	1	33	84	262
			50	22.0	22700	10500	11	0	2	9	40
2027	Without airspace change	Overflights_Day	5	591.9	518300	243600	217	5	83	285	1742
			10	288.5	267900	123100	124	1	52	155	524
			20	158.8	181200	82900	78	1	41	98	314
			50	35.0	32000	15200	13	0	4	16	55
			100	2.7	5400	2400	1	0	0	0	2
2036	Without airspace change	Overflights_Day	5	630.2	554700	260200	234	8	90	301	1920
			10	312.4	275200	126400	128	1	55	157	562
			20	167.3	188300	86400	82	1	43	102	333
			50	37.3	34400	16400	13	0	4	16	59
			100	5.6	8500	3700	4	0	1	3	8

Noise Contour Data

Scenario: Without airspace change

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2022	Without airspace change	Overflights_Night	5	51.9	44500	21300	16	0	11	23	164
			10	20.3	19200	9000	9	0	4	7	33
2027	Without airspace change	Overflights_Night	5	57.1	50900	24200	16	0	12	28	176
			10	27.0	25700	12200	12	0	4	11	43
2036	Without airspace change	Overflights_Night	5	60.9	55300	26100	20	0	13	35	190
			10	29.2	27600	13100	13	0	4	12	45

Noise Contour Data

Scenario: DS_Option_1

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 1	LAEQ16HR	51	41.1	64200	30300	33	0	14	30	83
			54	22.0	27800	13200	10	0	6	16	32
			57	11.7	7900	3700	2	0	0	3	11
			60	5.9	1600	800	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 1	LAEQ16HR	51	43.9	70700	33400	38	0	15	31	86
			54	23.5	31700	15000	12	0	7	17	40
			57	12.6	9700	4500	3	0	0	4	14
			60	6.3	1800	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_1

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 1	LAEQ8HR	45	66.2	92800	43800	45	0	21	47	111
			48	34.2	53100	25200	24	0	12	23	56
			51	18.3	19600	9600	6	0	5	10	24
			54	9.3	2800	1400	0	0	0	2	6
			55	7.4	1400	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 1	LAEQ8HR	45	70.3	96600	45600	46	0	21	51	129
			48	36.6	56800	26800	29	0	12	24	61
			51	19.5	22300	10900	6	0	5	12	25
			54	10.0	3300	1600	0	0	0	2	6
			55	7.9	1700	900	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_1

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 1	N65	5	175.3	147400	70400	59	0	36	81	452
			10	108.5	115600	54600	54	0	25	61	256
			20	67.4	92600	43500	50	0	21	47	160
			50	36.6	52100	24400	20	0	12	29	83
			100	10.1	9800	4600	3	0	0	5	15
			200	0.6	0	0	0	0	0	0	0
2036	Option 1	N65	5	182.2	151200	72200	59	0	37	82	490
			10	113.6	120000	56800	54	0	25	62	265
			20	70.0	95100	44700	50	0	21	48	163
			50	38.4	55400	26000	21	0	12	30	87
			100	12.8	15600	7100	3	0	1	7	19
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_1

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 1	N60	5	115.2	140800	67900	61	0	28	79	362
			10	58.1	95800	45600	48	0	21	49	117
			20	11.6	3100	1400	1	0	0	0	5
2036	Option 1	N60	5	119.8	143600	69300	61	0	28	79	370
			10	64.0	100600	47900	50	0	22	50	126
			20	13.6	4500	2200	6	0	0	1	6

Noise Contour Data

Scenario: DS_Option_1

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 1	Overflights_Day	5	713.9	573700	268400	249	10	104	308	2027
			10	338.6	265400	121000	117	1	63	155	713
			20	158.2	129200	58500	56	0	35	65	370
			50	26.6	30600	14700	12	0	5	16	63
			100	3.6	4700	2100	1	0	0	1	1
2036	Option 1	Overflights_Day	5	753.9	621800	290800	261	11	113	342	2265
			10	357.4	283500	129400	122	1	66	162	786
			20	177.4	146400	66300	61	0	40	76	412
			50	28.7	33100	16000	13	0	6	16	67
			100	5.8	7900	3600	2	0	0	1	6

Noise Contour Data

Scenario: DS_Option_1

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 1	Overflights_Night	5	61.3	43700	21000	15	0	10	19	87
			10	9.8	16600	8200	6	0	4	8	16
2036	Option 1	Overflights_Night	5	65.2	46100	22100	16	0	10	19	90
			10	12.0	18800	9200	8	0	4	9	17
			20	<0.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_2

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 2	LAEQ16HR	51	40.8	66500	31400	33	0	13	29	80
			54	21.7	27100	12900	10	0	6	15	32
			57	11.6	7700	3600	2	0	0	4	13
			60	5.8	1400	700	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 2	LAEQ16HR	51	43.6	70900	33500	36	0	14	32	85
			54	23.2	30900	14700	12	0	7	18	39
			57	12.5	9300	4400	3	0	0	5	13
			60	6.3	1700	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_2

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 2	LAEQ8HR	45	66.5	93200	43800	45	0	20	46	106
			48	34.1	52800	25200	28	0	12	23	55
			51	18.2	19100	9400	6	0	5	11	24
			54	9.2	2600	1300	0	0	0	2	6
			55	7.4	1300	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 2	LAEQ8HR	45	70.6	96300	45400	47	0	20	51	129
			48	36.5	59400	28200	31	0	12	24	59
			51	19.4	21900	10800	6	0	5	13	24
			54	9.9	3300	1600	0	0	0	2	6
			55	7.9	1600	800	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_2

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 2	N65	5	179.0	148700	70700	62	0	36	84	431
			10	109.5	117500	55300	54	0	26	62	255
			20	67.1	92000	43200	50	0	21	48	158
			50	36.4	51200	24100	20	0	12	28	80
			100	9.9	9100	4300	3	0	0	5	14
			200	0.6	0	0	0	0	0	0	0
2036	Option 2	N65	5	185.6	152900	72700	63	0	37	85	443
			10	114.8	120500	56800	54	0	26	63	264
			20	69.6	94400	44400	50	0	21	49	164
			50	38.2	54800	25800	22	0	12	30	83
			100	12.1	13700	6200	3	0	1	7	18
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_2

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 2	N60	5	114.8	140400	67700	61	0	28	79	362
			10	56.6	95700	45500	48	0	21	49	117
			20	11.6	3100	1400	1	0	0	0	5
2036	Option 2	N60	5	119.5	143100	69100	61	0	28	79	369
			10	63.4	100200	47700	49	0	22	51	124
			20	13.6	4500	2200	6	0	0	1	6

Noise Contour Data

Scenario: DS_Option_2

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 2	Overflights_Day	5	718.3	581300	271500	249	10	102	310	2027
			10	339.4	269100	122500	119	1	63	156	708
			20	157.5	128000	58000	59	0	34	66	365
			50	25.9	29500	14100	12	0	5	15	62
			100	1.9	3400	1500	0	0	0	1	1
2036	Option 2	Overflights_Day	5	757.2	628400	293500	261	11	111	344	2267
			10	358.3	289700	132200	124	1	67	164	778
			20	176.7	146000	66200	65	0	38	79	406
			50	28.1	31900	15300	13	0	6	15	66
			100	4.8	6300	2900	2	0	0	1	3

Noise Contour Data

Scenario: DS_Option_2

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 2	Overflights_Night	5	60.5	42000	20300	14	0	9	19	85
			10	8.1	14500	7200	6	0	4	8	14
2036	Option 2	Overflights_Night	5	64.4	44800	21600	15	0	10	22	90
			10	10.3	17300	8500	8	0	4	9	16
			20	<0.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_3

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 3	LAEQ16HR	51	40.9	63900	30200	34	0	13	30	115
			54	21.4	26700	12700	7	0	5	13	26
			57	11.3	6900	3200	2	0	0	3	11
			60	5.8	1600	800	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 3	LAEQ16HR	51	43.7	71300	33600	38	0	15	32	146
			54	23.0	30700	14500	9	0	5	13	39
			57	12.2	8400	3900	2	0	0	4	14
			60	6.2	1800	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_3

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 3	LAEQ8HR	45	66.7	95500	45000	46	0	21	49	191
			48	33.9	51100	24400	24	0	12	23	57
			51	17.4	16100	7800	6	0	0	6	19
			54	8.9	2400	1200	0	0	0	2	6
			55	7.2	1400	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 3	LAEQ8HR	45	70.9	99800	47100	48	0	21	53	196
			48	36.2	56200	26600	28	0	12	23	63
			51	18.5	19000	9100	6	0	4	8	21
			54	9.5	2700	1400	0	0	0	2	6
			55	7.7	1700	900	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_3

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 3	N65	5	186.9	149300	71300	61	0	34	83	463
			10	108.4	117000	55200	54	0	25	61	269
			20	67.2	95200	44900	52	0	20	50	213
			50	35.4	48100	22500	18	0	12	29	80
			100	10.1	9800	4600	3	0	0	5	15
			200	0.6	0	0	0	0	0	0	0
2036	Option 3	N65	5	193.5	152700	72900	61	0	34	83	492
			10	114.2	121500	57500	54	0	25	62	281
			20	69.9	98000	46000	52	0	21	51	214
			50	37.2	51700	24300	21	0	12	29	84
			100	12.8	15600	7100	3	0	1	7	19
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_3

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 3	N60	5	100.3	138400	66700	61	0	27	77	348
			10	55.0	93800	44700	48	0	20	49	116
			20	11.6	3100	1400	1	0	0	0	5
2036	Option 3	N60	5	107.2	140200	67600	61	0	27	77	356
			10	60.7	99200	47500	50	0	21	50	126
			20	13.6	4500	2200	7	0	0	1	6

Noise Contour Data

Scenario: DS_Option_3

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 3	Overflights_Day	5	739.4	584300	273000	251	10	105	309	2108
			10	355.6	276000	126000	122	1	63	160	820
			20	163.9	134300	60800	60	0	33	64	367
			50	20.4	23400	11300	6	0	2	11	41
			100	3.3	4200	1900	1	0	0	0	1
2036	Option 3	Overflights_Day	5	778.5	632200	295500	263	11	114	344	2349
			10	374.3	294100	134500	127	1	65	166	899
			20	184	151800	68800	66	0	39	75	408
			50	22.4	26300	12900	6	0	2	11	67
			100	4.9	6100	2700	1	0	0	0	4

Noise Contour Data

Scenario: DS_Option_3

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 3	Overflights_Night	5	58.2	44300	21500	14	0	9	22	202
			10	6.7	8100	3700	1	0	0	1	4
2036	Option 3	Overflights_Night	5	61.8	46000	22200	16	0	10	22	204
			10	10.0	12200	5800	1	0	1	2	17

Noise Contour Data

Scenario: DS_Option_4

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 4	LAEQ16HR	51	40.6	66200	31300	34	0	12	29	112
			54	21.2	25900	12300	7	0	5	12	26
			57	11.2	6700	3200	2	0	0	4	11
			60	5.8	1400	700	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.7	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 4	LAEQ16HR	51	43.4	71400	33700	36	0	14	33	145
			54	22.7	30000	14200	9	0	5	14	38
			57	12.1	8000	3700	2	0	0	5	13
			60	6.2	1700	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_4

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 4	LAEQ8HR	45	67.0	96000	45100	46	0	20	48	186
			48	33.7	50800	24300	28	0	12	23	54
			51	17.3	15700	7700	6	0	0	7	19
			54	8.9	2300	1200	0	0	0	2	6
			55	7.2	1300	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 4	LAEQ8HR	45	71.2	99500	46800	49	0	20	53	196
			48	36.1	58800	27900	30	0	12	23	61
			51	18.4	18600	9000	6	0	4	9	20
			54	9.4	2700	1400	0	0	0	2	6
			55	7.7	1600	800	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_4

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 4	N65	5	190.5	150600	71700	64	0	34	86	442
			10	109.4	118900	55900	54	0	26	62	268
			20	66.9	94700	44600	52	0	20	51	211
			50	35.1	47200	22200	18	0	12	28	77
			100	9.9	9100	4300	3	0	0	5	14
			200	0.6	0	0	0	0	0	0	0
2036	Option 4	N65	5	196.9	154500	73500	65	0	34	86	445
			10	115.3	122000	57500	54	0	26	63	280
			20	69.6	97300	45700	52	0	21	52	215
			50	36.9	51100	24000	22	0	12	29	80
			100	12.1	13700	6200	3	0	1	7	18
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_4

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 4	N60	5	99.9	138000	66500	61	0	27	77	348
			10	53.5	93700	44600	48	0	20	49	116
			20	11.6	3100	1400	1	0	0	0	5
2036	Option 4	N60	5	106.9	139600	67400	61	0	27	77	355
			10	60.2	98800	47300	49	0	21	51	124
			20	13.6	4500	2200	7	0	0	1	6

Noise Contour Data

Scenario: DS_Option_4

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 4	Overflights_Day	5	744.7	593500	277000	251	10	103	311	2111
			10	356.2	279600	127500	124	1	63	161	815
			20	163.2	133000	60300	63	0	32	65	362
			50	19.8	22300	10800	6	0	2	10	40
			100	1.7	2900	1300	0	0	0	0	1
2036	Option 4	Overflights_Day	5	785.1	641500	299500	263	11	112	346	2352
			10	375.0	300400	137200	129	1	66	168	891
			20	183.3	151400	68700	70	0	37	78	402
			50	21.7	25000	12300	6	0	2	10	66
			100	4.0	4400	2000	1	0	0	0	1

Noise Contour Data

Scenario: DS_Option_4

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 4	Overflights_Night	5	57.5	42500	20700	13	0	8	22	200
			10	5.0	5900	2800	1	0	0	1	2
2036	Option 4	Overflights_Night	5	61.0	44700	21700	15	0	10	25	204
			10	8.3	10600	5100	1	0	1	2	16

Noise Contour Data

Scenario: DS_Option_5

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 5	LAEQ16HR	51	41.1	64400	30400	33	0	14	30	83
			54	22.0	27800	13200	10	0	6	16	32
			57	11.8	8000	3700	2	0	0	3	11
			60	5.9	1600	800	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 5	LAEQ16HR	51	43.9	71000	33500	38	0	15	31	88
			54	23.5	31600	15000	12	0	7	17	40
			57	12.6	9800	4600	3	0	0	5	14
			60	6.3	1800	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_5

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 5	LAEQ8HR	45	66.3	92800	43700	45	0	21	47	111
			48	34.2	53100	25300	24	0	12	23	58
			51	18.3	19500	9600	6	0	5	10	24
			54	9.3	2800	1300	0	0	0	2	6
			55	7.4	1400	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 5	LAEQ8HR	45	70.4	96900	45700	46	0	21	51	129
			48	36.6	56900	26900	29	0	12	24	61
			51	19.5	22200	10800	6	0	5	12	25
			54	10.0	3300	1600	0	0	0	2	6
			55	7.9	1700	900	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	<100	<100	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_5

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 5	N65	5	174.5	147700	70500	59	0	36	81	453
			10	107.6	116100	54800	54	0	25	61	257
			20	69.6	93000	43700	50	0	21	47	160
			50	36.7	52100	24400	20	0	12	28	85
			100	10.1	9800	4600	3	0	0	5	15
			200	0.6	0	0	0	0	0	0	0
2036	Option 5	N65	5	181.1	151200	72200	59	0	37	82	490
			10	112.5	120000	56800	54	0	25	62	267
			20	72.1	95700	44900	50	0	21	48	163
			50	38.7	55700	26200	22	0	13	30	87
			100	12.7	15500	7100	3	0	1	7	19
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_5

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 5	N60	5	121.6	140800	67900	61	0	28	79	363
			10	57.6	95800	45500	48	0	21	49	116
			20	11.6	3100	1400	1	0	0	0	6
2036	Option 5	N60	5	126.6	143500	69200	61	0	28	79	369
			10	63.5	100300	47700	50	0	22	50	124
			20	13.6	4500	2200	6	0	0	1	6

Noise Contour Data

Scenario: DS_Option_5

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 5	Overflights_Day	5	568	435600	205300	189	3	87	244	1232
			10	340.9	231700	106000	102	0	59	135	788
			20	156.9	113500	51900	43	0	32	55	308
			50	41.5	34000	16100	13	0	5	17	67
			100	2.7	4100	1900	1	0	0	1	1
2036	Option 5	Overflights_Day	5	611.2	476100	225000	206	3	91	283	1436
			10	358.5	247400	113300	108	0	61	141	801
			20	169.2	120600	55300	48	0	33	61	377
			50	51.2	44000	20600	15	0	7	19	74
			100	5.1	7000	3200	2	0	0	1	5

Noise Contour Data

Scenario: DS_Option_5

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 5	Overflights_Night	5	90.7	64600	30200	22	0	15	25	92
			10	9.1	15900	7900	6	0	4	8	16
2036	Option 5	Overflights_Night	5	98.5	70800	32800	26	0	15	28	100
			10	11.2	18300	9000	8	0	4	9	17
			20	<0.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_6

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 6	LAEQ16HR	51	40.8	66800	31600	33	0	13	29	80
			54	21.8	27300	13000	10	0	6	15	32
			57	11.6	7800	3700	2	0	0	4	13
			60	5.8	1400	700	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 6	LAEQ16HR	51	43.6	71000	33500	36	0	14	33	85
			54	23.2	30900	14700	12	0	7	18	39
			57	12.5	9300	4400	3	0	0	5	13
			60	6.3	1700	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_6

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 6	LAEQ8HR	45	66.6	93400	44000	45	0	20	46	107
			48	34.1	52800	25200	28	0	12	23	55
			51	18.2	19100	9400	6	0	5	11	24
			54	9.2	2600	1300	0	0	0	2	6
			55	7.4	1300	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 6	LAEQ8HR	45	70.7	96300	45400	47	0	20	51	129
			48	36.5	59500	28300	31	0	12	24	59
			51	19.4	21900	10800	6	0	5	13	24
			54	9.9	3300	1600	0	0	0	2	6
			55	7.9	1600	800	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_6

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 6	N65	5	177.8	148800	70700	62	0	36	84	431
			10	108.6	117700	55400	54	0	26	62	256
			20	69.2	92600	43400	50	0	21	48	158
			50	36.4	51500	24100	20	0	12	27	79
			100	9.8	9000	4300	3	0	0	5	13
			200	0.6	0	0	0	0	0	0	0
2036	Option 6	N65	5	184.3	153000	72700	63	0	37	85	443
			10	113.7	120500	56800	54	0	26	63	265
			20	71.8	94800	44600	50	0	21	49	164
			50	38.4	55300	26000	22	0	13	30	86
			100	12.0	13500	6200	3	0	1	7	18
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_6

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 6	N60	5	121.3	140800	67900	61	0	28	79	362
			10	56.3	95600	45400	48	0	21	49	116
			20	11.6	3100	1400	1	0	0	0	5
2036	Option 6	N60	5	126.3	143000	69000	61	0	28	79	371
			10	62.9	100000	47600	49	0	22	51	124
			20	13.6	4500	2200	6	0	0	1	6

Noise Contour Data

Scenario: DS_Option_6

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 6	Overflights_Day	5	572.6	443200	208500	189	3	85	246	1232
			10	341.2	234900	107300	104	0	58	136	782
			20	156.2	112700	51600	46	0	31	57	300
			50	40.8	33000	15700	13	0	5	15	66
			100	1.5	2700	1300	0	0	0	1	1
2036	Option 6	Overflights_Day	5	615.0	482800	227800	206	3	89	285	1439
			10	359.1	253400	115900	111	0	62	143	793
			20	168.6	120600	55400	51	0	31	63	367
			50	50.6	42700	20000	15	0	7	19	74
			100	4.0	5800	2700	2	0	0	1	3

Noise Contour Data

Scenario: DS_Option_6

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 6	Overflights_Night	5	89.9	63000	29500	21	0	14	24	92
			10	7.8	13800	7000	6	0	4	8	14
2036	Option 6	Overflights_Night	5	97.6	69600	32300	25	0	15	31	97
			10	9.4	16500	8200	8	0	4	9	15
			20	<0.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_7

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 7	LAEQ16HR	51	40.9	64100	30300	34	0	13	30	115
			54	21.4	26600	12700	7	0	5	13	26
			57	11.4	6900	3200	2	0	0	3	11
			60	5.8	1600	800	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 7	LAEQ16HR	51	43.7	71500	33700	38	0	15	32	148
			54	23.0	30600	14500	9	0	5	13	39
			57	12.2	8500	3900	2	0	0	5	14
			60	6.2	1800	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_7

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 7	LAEQ8HR	45	66.7	95500	45000	46	0	21	49	191
			48	33.9	51200	24400	24	0	12	23	57
			51	17.4	16100	7800	6	0	0	6	19
			54	8.9	2400	1200	0	0	0	2	6
			55	7.2	1400	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	0	0	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 7	LAEQ8HR	45	71.0	100100	47200	48	0	21	53	196
			48	36.2	56300	26600	28	0	12	23	63
			51	18.5	18900	9100	6	0	4	8	21
			54	9.5	2700	1400	0	0	0	2	6
			55	7.7	1700	900	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_7

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 7	N65	5	186.0	149600	71500	61	0	34	83	464
			10	107.2	117500	55400	54	0	25	61	271
			20	69.2	95700	45100	52	0	20	50	213
			50	35.5	48300	22600	18	0	12	28	82
			100	10.1	9800	4600	3	0	0	5	15
			200	0.6	0	0	0	0	0	0	0
2036	Option 7	N65	5	192.6	152800	73000	61	0	34	83	495
			10	112.9	121700	57600	54	0	25	62	283
			20	71.9	98900	46400	52	0	21	51	214
			50	37.5	51900	24300	22	0	13	29	84
			100	12.7	15500	7100	3	0	1	7	19
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_7

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 7	N60	5	106.5	138300	66700	61	0	27	77	346
			10	54.6	93700	44700	48	0	20	49	115
			20	11.6	3100	1400	1	0	0	0	6
2036	Option 7	N60	5	115	140300	67700	61	0	27	77	353
			10	60.3	98900	47300	50	0	21	50	124
			20	13.6	4500	2200	6	0	0	1	6

Noise Contour Data

Scenario: DS_Option_7

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 7	Overflights_Day	5	592.6	446800	210300	191	3	89	245	1312
			10	358.8	239100	109400	105	0	56	137	810
			20	163.2	120300	55000	48	0	31	57	368
			50	35.4	27000	12900	7	0	2	12	45
			100	2.5	3700	1700	1	0	0	0	1
2036	Option 7	Overflights_Day	5	635.2	487500	230300	208	3	93	285	1541
			10	376.4	255100	116800	111	0	58	142	824
			20	176.2	127300	58300	54	0	33	62	406
			50	44.8	37000	17400	8	0	3	15	74
			100	4.2	5200	2300	1	0	0	0	3

Noise Contour Data

Scenario: DS_Option_7

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 7	Overflights_Night	5	87.5	65600	30800	21	0	14	29	207
			10	6.1	7500	3500	1	0	0	1	4
2036	Option 7	Overflights_Night	5	95.3	71300	33200	24	0	15	31	216
			10	9.3	11600	5600	1	0	1	2	17

Noise Contour Data

Scenario: DS_Option_8

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 8	LAEQ16HR	51	40.5	66500	31400	34	0	12	29	112
			54	21.2	26100	12400	7	0	5	12	26
			57	11.2	6700	3100	2	0	0	4	13
			60	5.8	1400	700	0	0	0	2	4
			63	3.1	<100	<100	0	0	0	0	0
			66	1.8	0	0	0	0	0	0	0
			69	1.0	0	0	0	0	0	0	0
2036	Option 8	LAEQ16HR	51	43.4	71500	33700	36	0	14	34	145
			54	22.7	30000	14200	9	0	5	14	38
			57	12.1	8000	3700	2	0	0	5	13
			60	6.2	1700	900	0	0	0	2	4
			63	3.3	<100	<100	0	0	0	0	0
			66	1.9	0	0	0	0	0	0	0
			69	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_8

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 8	LAEQ8HR	45	67.0	96200	45200	46	0	20	48	187
			48	33.7	50800	24300	28	0	12	23	54
			51	17.3	15700	7700	6	0	0	7	19
			54	8.9	2300	1200	0	0	0	2	6
			55	7.2	1300	700	0	0	0	2	5
			57	4.8	<100	<100	0	0	0	1	3
			60	2.8	<100	<100	0	0	0	0	0
			63	1.6	0	0	0	0	0	0	0
2036	Option 8	LAEQ8HR	45	71.3	99500	46800	49	0	20	53	196
			48	36.1	58900	28000	30	0	12	23	61
			51	18.4	18600	9000	6	0	4	9	20
			54	9.4	2700	1400	0	0	0	2	6
			55	7.7	1600	800	0	0	0	2	5
			57	5.1	100	100	0	0	0	1	3
			60	2.9	<100	<100	0	0	0	0	0
			63	1.7	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_8

Metric: N65

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 8	N65	5	189.3	150700	71700	64	0	34	86	442
			10	108.2	119100	56000	54	0	26	62	270
			20	68.8	95200	44800	52	0	20	51	211
			50	35.2	47700	22300	18	0	12	27	76
			100	9.8	9000	4300	3	0	0	5	13
			200	0.6	0	0	0	0	0	0	0
2036	Option 8	N65	5	195.7	154600	73600	65	0	34	86	448
			10	114.0	122200	57600	54	0	26	63	281
			20	71.6	98000	46100	52	0	21	52	215
			50	37.2	51400	24100	22	0	13	29	83
			100	12.0	13500	6200	3	0	1	7	18
			200	1.1	0	0	0	0	0	0	0

Noise Contour Data

Scenario: DS_Option_8

Metric: N60

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 8	N60	5	106.2	138200	66700	61	0	27	77	345
			10	53.3	93600	44600	48	0	20	49	115
			20	11.6	3100	1400	1	0	0	0	5
2036	Option 8	N60	5	114.7	139900	67500	61	0	27	77	355
			10	59.6	98600	47100	49	0	21	51	124
			20	13.6	4500	2200	6	0	0	1	6

Noise Contour Data

Scenario: DS_Option_8

Metric: Overflights_Day

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 8	Overflights_Day	5	598.2	456200	214400	191	3	87	247	1315
			10	358.9	242300	110700	107	0	55	138	804
			20	162.5	119400	54700	51	0	30	59	360
			50	34.7	26000	12500	7	0	2	10	44
			100	1.2	2300	1100	0	0	0	0	1
2036	Option 8	Overflights_Day	5	642.5	496900	234300	208	3	91	287	1545
			10	376.8	261000	119300	114	0	59	144	816
			20	175.6	127300	58400	57	0	31	64	396
			50	44.2	35700	16800	8	0	3	15	74
			100	3.2	3900	1800	1	0	0	0	1

Noise Contour Data

Scenario: DS_Option_8

Metric: Overflights_Night

Year	Scenario	Metric	Contour	Area (km2)	Total population	Total households	Number of schools	Number of hospitals	Number of care homes	Number of places of worship	Number of listed buildings
2027	Option 8	Overflights_Night	5	86.7	63900	30100	20	0	13	28	207
			10	4.7	5300	2600	1	0	0	1	2
2036	Option 8	Overflights_Night	5	94.4	70100	32700	23	0	15	34	213
			10	7.4	9800	4800	1	0	1	2	15

Tranquility Data

Scenario: Without airspace change

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	LAEQ16HR	51	0	0	0	0	4	1.0	0	0	0	0	6	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2027	Without airspace change	LAEQ16HR	51	0	0	0	0	4	1.2	0	0	1	<0.1	10	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	5	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Without airspace change	LAEQ16HR	51	0	0	0	0	5	1.3	0	0	1	0.1	10	0.1
			54	0	0	0	0	3	0.2	0	0	0	0	5	0.1
			57	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: Without airspace change

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	LAEQ8HR	45	0	0	0	0	7	1.5	0	0	1	0.1	13	0.2
			48	0	0	0	0	4	0.8	0	0	0	0	6	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	<0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	1	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2027	Without airspace change	LAEQ8HR	45	0	0	0	0	7	1.6	0	0	1	0.2	14	0.2
			48	0	0	0	0	4	1.0	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Without airspace change	LAEQ8HR	45	0	0	0	0	7	1.7	0	0	1	0.2	15	0.2
			48	0	0	0	0	4	1.1	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

GLASGOW AIRPORT

Scenario: Without airspace change

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	N65	5	0	0	0	0	12	2.3	2	0.1	1	0.9	24	0.6
			10	0	0	0	0	9	1.9	0	0	1	0.4	18	0.3
			20	0	0	0	0	6	1.5	0	0	1	0.3	12	0.1
			50	0	0	0	0	4	0.8	0	0	1	<0.1	7	0.1
			100	0	0	0	0	0	0	0	0	0	0	1	<0.1
2027	Without airspace change	N65	5	0	0	0	0	13	2.5	2	0.4	1	1.0	27	0.7
			10	0	0	0	0	10	2.1	1	0.1	1	0.4	19	0.4
			20	0	0	0	0	7	1.7	0	0	1	0.3	14	0.1
			50	0	0	0	0	5	0.9	0	0	1	0.1	10	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Without airspace change	N65	5	0	0	0	0	13	2.6	2	0.5	1	1.2	28	0.7
			10	0	0	0	0	10	2.1	1	0.1	1	0.5	19	0.4
			20	0	0	0	0	7	1.8	0	0	1	0.3	14	0.2
			50	0	0	0	0	5	1.0	0	0	1	0.1	10	0.1
			100	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: Without airspace change

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	N60	5	0	0	0	0	11	2.4	1	0.5	1	0.6	24	0.5
			10	0	0	0	0	6	1.6	1	<0.1	1	0.2	12	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2027	Without airspace change	N60	5	0	0	0	0	11	2.5	2	0.7	1	0.7	24	0.4
			10	0	0	0	0	7	1.8	0	0	1	0.4	14	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Without airspace change	N60	5	0	0	0	0	11	2.6	2	0.8	1	0.7	24	0.5
			10	0	0	0	0	8	1.8	1	<0.1	1	0.5	16	0.2
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: Without airspace change

Metric: Overflights_Day

Year	Scen.	Metric	Contour	NSA		National Parks		CQA		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	Overflights_Day	5	0	0	0	0	22	8.5	5	13.4	8	8.8	72	1.6
			10	0	0	0	0	15	4.6	4	9.3	4	4.4	30	0.7
			20	0	0	0	0	12	2.2	2	3.7	2	0.6	16	0.3
			50	0	0	0	0	5	0.7	0	0	1	0.1	6	<0.1
2027	Without airspace change	Overflights_Day	5	0	0	0	0	26	10.1	5	14.2	10	9.7	81	2.1
			10	0	0	0	0	18	5.5	5	9.9	4	4.2	43	0.9
			20	0	0	0	0	13	2.8	3	6.2	2	0.4	23	0.5
			50	0	0	0	0	5	1.0	0	0	1	0.1	7	<0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0
2036	Without airspace change	Overflights_Day	5	0	0	0	0	27	10.3	5	14.3	11	10.7	86	2.2
			10	0	0	0	0	18	7.0	5	11.5	4	5.0	48	1.0
			20	0	0	0	0	13	3.1	3	6.7	2	0.7	23	0.6
			50	0	0	0	0	5	1.0	0	0	1	0.1	7	<0.1
			100	0	0	0	0	2	0.4	0	0	0	0	3	<0.1

Tranquility Data

Scenario: Without airspace change

Metric: Overflights_Night

Year	Scen.	Metric	Contour	NSA		National Parks		CQA		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	Overflights_Night	5	0	0	0	0	5	1.1	0	0	1	0.1	6	0.1
			10	0	0	0	0	4	0.5	0	0	0	0	2	<0.1
2027	Without airspace change	Overflights_Night	5	0	0	0	0	5	1.2	1	<0.1	1	0.1	6	0.1
			10	0	0	0	0	4	0.9	0	0	0	0	4	<0.1
2036	Without airspace change	Overflights_Night	5	0	0	0	0	5	1.3	1	<0.1	1	0.2	8	0.1
			10	0	0	0	0	4	1.0	0	0	1	<0.1	6	<0.1

Tranquility Data

Scenario: DS_Option_1

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	LAEQ16HR	51	0	0	0	0	5	0.8	0	0	1	<0.1	8	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 1	LAEQ16HR	51	0	0	0	0	5	0.9	0	0	1	0.1	9	0.1
			54	0	0	0	0	3	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_1

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	LAEQ8HR	45	0	0	0	0	8	1.8	0	0	1	0.1	12	0.1
			48	0	0	0	0	3	0.5	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 1	LAEQ8HR	45	0	0	0	0	8	2.1	1	<0.1	1	0.1	12	0.1
			48	0	0	0	0	4	0.6	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_1

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	N65	5	0	0	0	0	12	3.2	2	1.3	2	1.3	30	0.6
			10	0	0	0	0	9	2.4	1	<0.1	1	0.4	20	0.3
			20	0	0	0	0	8	1.5	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 1	N65	5	0	0	0	0	13	3.3	2	1.4	2	1.4	31	0.6
			10	0	0	0	0	9	2.6	1	0.1	1	0.4	21	0.3
			20	0	0	0	0	9	1.6	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	8	0.1
			100	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_1

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	N60	5	0	0	0	0	11	2.7	1	0.1	1	0.6	20	0.3
			10	0	0	0	0	6	1.3	0	0	1	0.3	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 1	N60	5	0	0	0	0	11	2.8	1	0.2	1	0.6	21	0.4
			10	0	0	0	0	6	1.4	0	0	1	0.4	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_1

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	Overflights_Day	5	1	<0.1	1	6.0	26	8.0	5	11.6	10	9.4	93	2.3
			10	0	0	0	0	13	4.5	4	8.6	3	1.3	46	1.0
			20	0	0	0	0	11	2.9	3	2.7	1	0.3	20	0.5
			50	0	0	0	0	5	0.6	0	0	1	0.1	7	<0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0
2036	Option 1	Overflights_Day	5	1	0.1	1	6.8	28	8.3	5	11.8	10	10.1	96	2.4
			10	0	0	0	0	14	4.5	5	9.0	3	1.5	48	1.1
			20	0	0	0	0	11	3.1	3	2.9	2	0.3	22	0.6
			50	0	0	0	0	5	0.6	0	0	1	0.1	7	<0.1
			100	0	0	0	0	2	0.4	0	0	0	0	2	<0.1

Tranquility Data

Scenario: DS_Option_1

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	Overflights_Night	5	0	0	0	0	6	1.3	1	<0.1	1	0.1	8	0.1
			10	0	0	0	0	3	0.4	0	0	0	0	2	<0.1
2036	Option 1	Overflights_Night	5	0	0	0	0	6	1.3	1	0.1	1	0.1	8	0.1
			10	0	0	0	0	3	0.5	0	0	0	0	3	<0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_2

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	LAEQ16HR	51	0	0	0	0	4	0.8	0	0	1	<0.1	7	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 2	LAEQ16HR	51	0	0	0	0	5	0.9	0	0	1	<0.1	9	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_2

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	LAEQ8HR	45	0	0	0	0	8	1.9	0	0	1	0.1	15	0.2
			48	0	0	0	0	3	0.4	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	<0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	2	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 2	LAEQ8HR	45	0	0	0	0	8	2.1	1	<0.1	1	0.1	15	0.2
			48	0	0	0	0	4	0.6	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_2

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	N65	5	0	0	0	0	12	3.5	2	1.3	2	1.3	27	0.6
			10	0	0	0	0	9	2.5	1	<0.1	1	0.4	22	0.3
			20	0	0	0	0	8	1.5	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 2	N65	5	0	0	0	0	12	3.6	2	1.4	2	1.4	28	0.6
			10	0	0	0	0	9	2.6	1	0.1	1	0.4	22	0.4
			20	0	0	0	0	9	1.6	0	0	1	0.3	15	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_2

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	N60	5	0	0	0	0	11	2.7	1	0.1	1	0.6	20	0.3
			10	0	0	0	0	6	1.3	0	0	1	0.3	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 2	N60	5	0	0	0	0	11	2.8	1	0.2	1	0.6	20	0.4
			10	0	0	0	0	6	1.4	0	0	1	0.4	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_2

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	Overflights_Day	5	1	<0.1	1	6.0	27	10.5	6	13.3	9	9.8	90	2.2
			10	0	0	0	0	14	4.6	4	8.6	3	1.2	49	1.1
			20	0	0	0	0	11	2.9	3	2.7	1	0.2	21	0.5
			50	0	0	0	0	5	0.5	0	0	1	0.1	7	<0.1
			100	0	0	0	0	1	0.3	0	0	0	0	0	0
2036	Option 2	Overflights_Day	5	1	0.1	1	6.8	29	10.9	6	13.5	9	10.4	92	2.4
			10	0	0	0	0	15	4.7	5	9.0	3	1.4	50	1.2
			20	0	0	0	0	11	3.1	3	2.9	2	0.2	23	0.6
			50	0	0	0	0	5	0.6	0	0	1	0.1	7	<0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_2

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	Overflights_Night	5	0	0	0	0	6	1.3	1	<0.1	1	0.1	8	<0.1
			10	0	0	0	0	3	0.2	0	0	0	0	1	<0.1
2036	Option 2	Overflights_Night	5	0	0	0	0	6	1.3	1	0.1	1	0.1	8	0.1
			10	0	0	0	0	3	0.4	0	0	0	0	2	<0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_3

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	LAEQ16HR	51	0	0	0	0	5	0.7	0	0	1	<0.1	8	0.1
			54	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 3	LAEQ16HR	51	0	0	0	0	5	0.8	0	0	1	0.1	8	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_3

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	LAEQ8HR	45	0	0	0	0	8	1.7	1	0.1	1	0.1	11	0.1
			48	0	0	0	0	3	0.4	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 3	LAEQ8HR	45	0	0	0	0	8	1.9	1	0.1	1	0.1	11	0.1
			48	0	0	0	0	5	0.6	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_3

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	N65	5	0	0	0	0	12	3.2	2	2.1	2	1.1	33	0.5
			10	0	0	0	0	10	2.3	1	<0.1	1	0.4	20	0.3
			20	0	0	0	0	8	1.4	0	0	1	0.3	13	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 3	N65	5	0	0	0	0	13	3.3	2	2.2	2	1.2	34	0.5
			10	0	0	0	0	10	2.5	1	0.2	1	0.4	21	0.3
			20	0	0	0	0	8	1.5	0	0	1	0.3	13	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	8	0.1
			100	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_3

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	N60	5	0	0	0	0	10	2.2	0	0	1	0.6	19	0.2
			10	0	0	0	0	6	1.2	0	0	1	0.3	11	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 3	N60	5	0	0	0	0	11	2.3	0	0	1	0.6	20	0.3
			10	0	0	0	0	6	1.3	0	0	1	0.4	12	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_3

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	Overflights_Day	5	1	<0.1	1	6.0	26	8.1	5	12.3	10	9.2	94	2.3
			10	0	0	0	0	13	4.3	4	9.4	3	1.0	49	1.0
			20	0	0	0	0	11	2.6	3	3.7	2	0.3	21	0.5
			50	0	0	0	0	3	0.5	0	0	1	0.1	5	<0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0
2036	Option 3	Overflights_Day	5	1	0.1	1	6.8	28	8.4	5	12.4	10	9.9	98	2.5
			10	0	0	0	0	14	4.4	5	9.7	3	1.3	51	1.1
			20	0	0	0	0	11	2.9	3	4.0	2	0.3	24	0.6
			50	0	0	0	0	4	0.5	0	0	1	0.1	5	<0.1
			100	0	0	0	0	2	0.4	0	0	0	0	2	<0.1

Tranquility Data

Scenario: DS_Option_3

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	Overflights_Night	5	0	0	0	0	6	1.1	1	0.9	1	0.1	7	<0.1
			10	0	0	0	0	2	0.4	0	0	0	0	2	<0.1
2036	Option 3	Overflights_Night	5	0	0	0	0	6	1.1	1	1.1	1	0.1	7	<0.1
			10	0	0	0	0	2	0.4	0	0	0	0	3	<0.1

Tranquility Data

Scenario: DS_Option_4

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	LAEQ16HR	51	0	0	0	0	5	0.7	0	0	1	<0.1	7	0.1
			54	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 4	LAEQ16HR	51	0	0	0	0	5	0.8	0	0	1	<0.1	8	0.1
			54	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_4

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	LAEQ8HR	45	0	0	0	0	8	1.8	1	0.1	1	0.1	14	0.2
			48	0	0	0	0	3	0.4	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	2	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 4	LAEQ8HR	45	0	0	0	0	8	1.9	1	0.1	1	0.1	14	0.2
			48	0	0	0	0	5	0.6	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_4

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	N65	5	0	0	0	0	12	3.5	2	2.1	2	1.1	30	0.5
			10	0	0	0	0	10	2.4	1	<0.1	1	0.4	22	0.3
			20	0	0	0	0	8	1.4	0	0	1	0.3	13	0.1
			50	0	0	0	0	4	0.6	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 4	N65	5	0	0	0	0	12	3.6	2	2.2	2	1.2	31	0.5
			10	0	0	0	0	10	2.6	1	0.2	1	0.4	22	0.4
			20	0	0	0	0	8	1.5	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_4

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	N60	5	0	0	0	0	10	2.2	0	0	1	0.6	19	0.2
			10	0	0	0	0	6	1.1	0	0	1	0.3	11	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 4	N60	5	0	0	0	0	11	2.3	0	0	1	0.6	19	0.2
			10	0	0	0	0	6	1.3	0	0	1	0.4	12	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_4

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option4	Overflights_Day	5	1	<0.1	1	6.0	27	10.5	6	13.9	9	9.5	92	2.3
			10	0	0	0	0	14	4.5	4	9.4	3	1.0	52	1.1
			20	0	0	0	0	11	2.6	3	3.7	2	0.2	22	0.5
			50	0	0	0	0	3	0.5	0	0	1	0.1	5	<0.1
			100	0	0	0	0	1	0.3	0	0	0	0	0	0
2036	Option 4	Overflights_Day	5	1	0.1	1	6.8	29	10.9	6	14.1	10	10.1	94	2.4
			10	0	0	0	0	15	4.6	5	9.7	3	1.2	53	1.2
			20	0	0	0	0	11	2.9	3	4.0	2	0.3	25	0.6
			50	0	0	0	0	4	0.5	0	0	1	0.1	5	<0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_4

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	Overflights_Night	5	0	0	0	0	6	1.1	1	0.9	1	0.1	7	<0.1
			10	0	0	0	0	2	0.2	0	0	0	0	1	<0.1
2036	Option 4	Overflights_Night	5	0	0	0	0	6	1.1	1	1.1	1	0.1	7	<0.1
			10	0	0	0	0	2	0.3	0	0	0	0	2	<0.1

Tranquility Data

Scenario: DS_Option_5

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	LAEQ16HR	51	0	0	0	0	5	0.8	0	0	1	<0.1	8	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 5	LAEQ16HR	51	0	0	0	0	5	0.9	0	0	1	0.1	9	0.1
			54	0	0	0	0	3	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_5

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	LAEQ8HR	45	0	0	0	0	8	1.8	0	0	1	0.1	12	0.1
			48	0	0	0	0	3	0.5	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 5	LAEQ8HR	45	0	0	0	0	8	2.1	1	<0.1	1	0.1	12	0.1
			48	0	0	0	0	4	0.6	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_5

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	N65	5	0	0	0	0	12	3.2	2	1.3	2	1.3	30	0.6
			10	0	0	0	0	9	2.4	1	<0.1	1	0.4	20	0.3
			20	0	0	0	0	8	1.5	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 5	N65	5	0	0	0	0	13	3.3	2	1.4	2	1.4	31	0.6
			10	0	0	0	0	9	2.6	1	0.1	1	0.4	21	0.3
			20	0	0	0	0	9	1.6	0	0	1	0.3	15	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	8	0.1
			100	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_5

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	N60	5	0	0	0	0	11	2.7	1	0.1	1	0.6	20	0.3
			10	0	0	0	0	6	1.3	0	0	1	0.3	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 5	N60	5	0	0	0	0	11	2.8	2	0.2	1	0.6	22	0.4
			10	0	0	0	0	6	1.4	0	0	1	0.4	14	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_5

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	Overflights_Day	5	0	0	1	1.7	26	7.5	5	11.9	9	9.2	76	1.8
			10	0	0	1	0.3	13	3.9	5	10.3	4	4.4	40	0.7
			20	0	0	0	0	11	2.6	3	5.3	1	0.2	19	0.4
			50	0	0	0	0	7	0.7	1	1.4	1	0.1	8	0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0
2036	Option 5	Overflights_Day	5	0	0	1	2.7	28	7.9	5	12.0	9	9.8	78	1.9
			10	0	0	1	0.5	15	4.3	5	10.5	4	4.7	46	0.8
			20	0	0	0	0	11	2.7	3	5.9	2	0.3	20	0.5
			50	0	0	0	0	7	0.8	1	1.8	1	0.1	12	0.2
			100	0	0	0	0	2	0.4	0	0	0	0	2	<0.1

Tranquility Data

Scenario: DS_Option_5

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	Overflights_Night	5	0	0	0	0	10	1.6	2	1.7	1	0.1	13	0.2
			10	0	0	0	0	3	0.3	0	0	0	0	2	<0.1
2036	Option 5	Overflights_Night	5	0	0	0	0	10	1.7	2	1.9	1	0.1	13	0.3
			10	0	0	0	0	3	0.4	0	0	0	0	2	<0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_6

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	LAEQ16HR	51	0	0	0	0	4	0.8	0	0	1	<0.1	7	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 6	LAEQ16HR	51	0	0	0	0	5	0.9	0	0	1	<0.1	9	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_6

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	LAEQ8HR	45	0	0	0	0	8	1.9	0	0	1	0.1	15	0.2
			48	0	0	0	0	3	0.4	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	<0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	2	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 6	LAEQ8HR	45	0	0	0	0	8	2.1	1	<0.1	1	0.1	15	0.2
			48	0	0	0	0	4	0.6	0	0	0	0	7	0.1
			51	0	0	0	0	2	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_6

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	N65	5	0	0	0	0	12	3.5	2	1.3	2	1.3	27	0.6
			10	0	0	0	0	9	2.5	1	<0.1	1	0.4	22	0.3
			20	0	0	0	0	8	1.5	0	0	1	0.3	15	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 6	N65	5	0	0	0	0	12	3.6	2	1.4	2	1.4	28	0.6
			10	0	0	0	0	9	2.6	1	0.1	1	0.4	22	0.4
			20	0	0	0	0	9	1.6	0	0	1	0.3	15	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_6

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	N60	5	0	0	0	0	11	2.7	1	0.1	1	0.6	19	0.3
			10	0	0	0	0	6	1.2	0	0	1	0.3	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 6	N60	5	0	0	0	0	11	2.8	2	0.2	1	0.6	22	0.4
			10	0	0	0	0	6	1.4	0	0	1	0.4	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_6

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	Overflights_Day	5	0	0	1	1.7	27	9.9	6	13.5	8	9.7	73	1.8
			10	0	0	1	0.3	14	4.0	5	10.3	4	4.3	43	0.8
			20	0	0	0	0	11	2.6	3	5.3	1	0.2	20	0.4
			50	0	0	0	0	7	0.7	1	1.4	1	0.1	8	0.1
			100	0	0	0	0	1	0.2	0	0	0	0	0	0
2036	Option 6	Overflights_Day	5	0	0	1	2.7	29	10.5	6	13.7	8	10.2	74	1.9
			10	0	0	1	0.5	16	4.5	5	10.5	4	4.6	48	0.9
			20	0	0	0	0	11	2.7	3	5.9	2	0.2	20	0.5
			50	0	0	0	0	7	0.8	1	1.8	1	0.1	12	0.2
			100	0	0	0	0	2	0.3	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_6

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	Overflights_Night	5	0	0	0	0	10	1.6	2	1.7	1	0.1	13	0.2
			10	0	0	0	0	3	0.2	0	0	0	0	1	<0.1
2036	Option 6	Overflights_Night	5	0	0	0	0	10	1.7	2	1.9	1	0.1	13	0.3
			10	0	0	0	0	3	0.4	0	0	0	0	2	<0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_7

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	LAEQ16HR	51	0	0	0	0	5	0.7	0	0	1	<0.1	8	0.1
			54	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 7	LAEQ16HR	51	0	0	0	0	5	0.8	0	0	1	0.1	8	0.1
			54	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_7

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	LAEQ8HR	45	0	0	0	0	8	1.7	1	0.1	1	0.1	11	0.1
			48	0	0	0	0	3	0.4	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 7	LAEQ8HR	45	0	0	0	0	8	1.9	1	0.1	1	0.1	11	0.1
			48	0	0	0	0	5	0.6	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_7

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	N65	5	0	0	0	0	12	3.3	2	2.1	2	1.1	33	0.5
			10	0	0	0	0	10	2.3	1	<0.1	1	0.4	20	0.3
			20	0	0	0	0	8	1.4	0	0	1	0.3	13	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 7	N65	5	0	0	0	0	13	3.3	2	2.2	2	1.2	34	0.5
			10	0	0	0	0	10	2.5	1	0.2	1	0.4	21	0.3
			20	0	0	0	0	8	1.5	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	8	0.1
			100	0	0	0	0	2	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_7

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	N60	5	0	0	0	0	10	2.2	0	0	1	0.6	19	0.2
			10	0	0	0	0	6	1.2	0	0	1	0.3	11	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 7	N60	5	0	0	0	0	11	2.3	1	<0.1	1	0.6	21	0.3
			10	0	0	0	0	6	1.3	0	0	1	0.4	13	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_7

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	Overflights_Day	5	0	0	1	1.7	26	7.5	5	12.5	9	9.1	77	1.8
			10	0	0	1	0.3	13	3.7	5	11.1	4	4.2	43	0.7
			20	0	0	0	0	11	2.4	3	6.3	2	0.2	20	0.4
			50	0	0	0	0	5	0.6	1	1.4	1	0.1	7	0.1
			100	0	0	0	0	2	0.3	0	0	0	0	0	0
2036	Option 7	Overflights_Day	5	0	0	1	2.7	28	8.0	5	12.6	9	9.7	80	2.0
			10	0	0	1	0.5	15	4.2	5	11.3	4	4.5	49	0.8
			20	0	0	0	0	11	2.5	3	7.0	2	0.3	22	0.5
			50	0	0	0	0	6	0.8	1	1.8	1	0.1	10	0.2
			100	0	0	0	0	2	0.4	0	0	0	0	2	<0.1

Tranquility Data

Scenario: DS_Option_7

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	Overflights_Night	5	0	0	0	0	10	1.4	2	2.6	1	0.1	12	0.2
			10	0	0	0	0	2	0.3	0	0	0	0	2	<0.1
2036	Option 7	Overflights_Night	5	0	0	0	0	10	1.5	2	2.9	1	0.1	12	0.3
			10	0	0	0	0	2	0.4	0	0	0	0	2	<0.1

Tranquility Data

Scenario: DS_Option_8

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	LAEQ16HR	51	0	0	0	0	4	0.7	0	0	1	<0.1	7	0.1
			54	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 8	LAEQ16HR	51	0	0	0	0	5	0.8	0	0	1	<0.1	8	0.1
			54	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			57	0	0	0	0	1	<0.1	0	0	0	0	3	<0.1
			60	0	0	0	0	0	0	0	0	0	0	3	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
			66	0	0	0	0	0	0	0	0	0	0	1	<0.1
			69	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_8

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	LAEQ8HR	45	0	0	0	0	8	1.8	1	0.1	1	0.1	14	0.2
			48	0	0	0	0	3	0.4	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	2	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 8	LAEQ8HR	45	0	0	0	0	8	1.9	1	0.1	1	0.1	14	0.2
			48	0	0	0	0	5	0.6	0	0	0	0	6	0.1
			51	0	0	0	0	1	0.1	0	0	0	0	3	0.1
			54	0	0	0	0	0	0	0	0	0	0	3	<0.1
			55	0	0	0	0	0	0	0	0	0	0	3	<0.1
			57	0	0	0	0	0	0	0	0	0	0	1	<0.1
			60	0	0	0	0	0	0	0	0	0	0	1	<0.1
			63	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_8

Metric: N65

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	N65	5	0	0	0	0	12	3.5	2	2.1	2	1.1	30	0.5
			10	0	0	0	0	10	2.4	1	<0.1	1	0.4	22	0.3
			20	0	0	0	0	8	1.4	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.6	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	3	<0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 8	N65	5	0	0	0	0	12	3.6	2	2.2	2	1.2	31	0.5
			10	0	0	0	0	10	2.6	1	0.2	1	0.4	22	0.4
			20	0	0	0	0	8	1.5	0	0	1	0.3	14	0.1
			50	0	0	0	0	4	0.7	0	0	1	0.1	7	0.1
			100	0	0	0	0	1	0.1	0	0	0	0	4	0.1
			200	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_8

Metric: N60

Year	Scenario	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	N60	5	0	0	0	0	10	2.2	0	0	1	0.6	18	0.2
			10	0	0	0	0	6	1.1	0	0	1	0.3	11	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 8	N60	5	0	0	0	0	11	2.3	1	<0.1	1	0.6	21	0.3
			10	0	0	0	0	6	1.3	0	0	1	0.4	12	0.1
			20	0	0	0	0	0	0	0	0	0	0	1	<0.1

Tranquility Data

Scenario: DS_Option_8

Metric: Overflights_Day

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	Overflights_Day	5	0	0	1	1.7	27	10.0	6	14.1	8	9.3	75	1.8
			10	0	0	1	0.3	14	3.9	5	11.1	4	4.1	46	0.8
			20	0	0	0	0	11	2.3	3	6.3	2	0.2	21	0.4
			50	0	0	0	0	5	0.6	1	1.4	1	0.1	7	0.1
			100	0	0	0	0	1	0.2	0	0	0	0	0	0
2036	Option 8	Overflights_Day	5	0	0	1	2.7	29	10.5	6	14.3	9	9.9	76	1.9
			10	0	0	1	0.5	16	4.4	5	11.3	4	4.4	51	0.9
			20	0	0	0	0	11	2.4	3	7.0	2	0.3	22	0.5
			50	0	0	0	0	6	0.8	1	1.8	1	0.1	10	0.2
			100	0	0	0	0	2	0.3	0	0	0	0	0	0

Tranquility Data

Scenario: DS_Option_8

Metric: Overflights_Night

Year	Scen.	Metric	Contour	National Scenic Area		National Parks		Candidate Quiet Area		Country Parks		Gardens and Designated Landscapes		SAMs	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	Overflights_Night	5	0	0	0	0	10	1.4	2	2.6	1	0.1	12	0.2
			10	0	0	0	0	2	0.1	0	0	0	0	1	<0.1
2036	Option 4	Overflights_Night	5	0	0	0	0	10	1.5	2	2.9	1	0.1	12	0.3
			10	0	0	0	0	2	0.3	0	0	0	0	2	<0.1

Biodiversity Data

Scenario: Without airspace change

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	LAEQ16HR	51	1	0.5	0	0	1	0.5	0	0	0	0	3	0.3
			54	1	0.2	0	0	1	0.2	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2027	Without airspace change	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Without airspace change	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.3
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	1	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: Without airspace change

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			48	1	0.5	0	0	1	0.5	0	0	0	0	3	0.3
			51	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2027	Without airspace change	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			48	1	0.5	0	0	1	0.5	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Without airspace change	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	3	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: Without airspace change

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	N65	5	2	0.7	0	0	6	1.1	1	0.1	0	0	3	0.6
			10	2	0.6	0	0	3	0.7	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.5	0	0	1	0.5	0	0	0	0	3	0.3
			100	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
2027	Without airspace change	N65	5	2	0.7	0	0	7	1.9	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.9	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	3	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Without airspace change	N65	5	2	0.8	0	0	7	2.1	1	0.2	0	0	3	0.6
			10	2	0.7	0	0	4	1.0	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	2	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: Without airspace change

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	N60	5	2	0.8	0	0	5	1.9	1	0.3	0	0	3	0.5
			10	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			20	1	0.3	0	0	1	0.3	0	0	0	0	1	<0.1
2027	Without airspace change	N60	5	2	0.9	0	0	5	2.4	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Without airspace change	N60	5	2	0.9	0	0	5	2.8	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: Without airspace change

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	Overflights_Day	5	1	<0.1	4	1.5	23	9.4	0	0	1	1.5	8	3.6
			10	0	0	2	0.4	9	3.4	0	0	1	0.6	7	2.4
			20	0	0	0	0	4	0.8	0	0	0	0	5	0.9
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
2027	Without airspace change	Overflights_Day	5	2	0.1	5	2.7	28	12.7	1	0.1	1	1.5	14	4.6
			10	1	<0.1	3	0.5	14	4.7	0	0	1	0.1	8	2.8
			20	0	0	0	0	5	1.5	0	0	0	0	7	1.3
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Without airspace change	Overflights_Day	5	2	0.3	5	2.8	29	13.3	1	0.3	1	1.5	14	5.0
			10	1	<0.1	4	0.6	17	6.0	0	0	1	0.3	8	3.0
			20	0	0	0	0	6	1.7	0	0	0	0	7	1.5
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: Without airspace change

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2022	Without airspace change	Overflights_Night	5	0	0	0	0	1	0.1	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
2022	Without airspace change	Overflights_Night	5	0	0	0	0	1	<0.1	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
2036	Without airspace change	Overflights_Night	5	0	0	0	0	2	<0.1	0	0	0	0	3	0.3
			10	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: DS_Option_1

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 1	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_1

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 1	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_1

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	N65	5	2	0.7	0	0	10	2.6	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 1	N65	5	2	0.7	0	0	10	2.8	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_1

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	N60	5	2	0.9	0	0	3	1.0	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 1	N60	5	2	0.9	0	0	3	1.1	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_1

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	Overflights_Day	5	2	2.1	6	2.4	31	13.9	1	2.0	1	1.1	14	8.0
			10	1	<0.1	1	0.4	17	5.6	0	0	0	0	8	4.5
			20	0	0	0	0	9	1.3	0	0	0	0	7	1.1
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 1	Overflights_Day	5	2	3.4	6	2.7	32	15.7	1	3.4	1	1.2	15	8.5
			10	1	<0.1	2	0.4	18	6.0	0	0	1	<0.1	8	4.7
			20	0	0	0	0	12	1.5	0	0	0	0	7	1.2
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: DS_Option_1

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 1	Overflights_Night	5	0	0	0	0	2	0.1	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
2036	Option 1	Overflights_Night	5	0	0	0	0	2	0.2	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_2

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 2	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_2

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 2	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_2

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	N65	5	2	0.7	0	0	9	2.6	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 2	N65	5	2	0.7	0	0	9	2.8	1	0.2	0	0	3	0.6
			10	2	0.7	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_2

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	N60	5	2	0.9	0	0	3	1.0	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 2	N60	5	2	0.9	0	0	4	1.1	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_2

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	Overflights_Day	5	2	0.6	6	2.4	32	14.2	1	0.6	1	1.1	14	8.0
			10	1	<0.1	1	0.4	18	5.6	0	0	0	0	8	4.6
			20	0	0	0	0	9	1.3	0	0	0	0	7	1.1
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 2	Overflights_Day	5	2	1.0	6	2.7	33	15.0	1	0.9	1	1.2	15	8.5
			10	1	<0.1	2	0.4	19	5.9	0	0	1	<0.1	8	4.8
			20	0	0	0	0	11	1.5	0	0	0	0	7	1.2
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1

Biodiversity Data

Scenario: DS_Option_2

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 2	Overflights_Night	5	0	0	0	0	2	0.1	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 2	Overflights_Night	5	0	0	0	0	2	0.2	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_3

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 3	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_3

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 3	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_3

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	N65	5	2	0.7	0	0	11	2.5	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 3	N65	5	2	0.8	0	0	11	2.7	1	0.3	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_3

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	N60	5	2	0.9	0	0	2	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 3	N60	5	2	0.9	0	0	3	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_3

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	Overflights_Day	5	2	4.4	6	2.4	32	16.4	1	4.4	1	1.1	14	8.0
			10	1	<0.1	1	0.4	18	6.0	0	0	0	0	8	4.5
			20	0	0	0	0	10	2.0	0	0	0	0	7	1.1
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 3	Overflights_Day	5	3	4.8	6	2.6	35	17.3	1	4.8	1	1.2	15	8.5
			10	1	<0.1	1	0.4	18	6.3	0	0	1	<0.1	8	4.7
			20	0	0	0	0	13	2.3	0	0	0	0	7	1.2
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: DS_Option_3

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 3	Overflights_Night	5	0	0	0	0	3	0.6	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
2036	Option 3	Overflights_Night	5	0	0	0	0	3	0.8	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: DS_Option_4

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	1	0	0	0	1	0	0	0	0	0	0	0
2036	Option 4	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_4

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 4	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_4

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	N65	5	2	0.7	0	0	10	2.5	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 4	N65	5	2	0.8	0	0	10	2.7	1	0.3	0	0	3	0.6
			10	2	0.7	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_4

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	N60	5	2	0.9	0	0	2	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 4	N60	5	2	0.9	0	0	4	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_4

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	Overflights_Day	5	2	2.8	6	2.4	33	16.6	1	2.8	1	1.1	14	8.0
			10	1	<0.1	1	0.4	19	6.0	0	0	0	0	8	4.6
			20	0	0	0	0	10	2.0	0	0	0	0	7	1.1
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	1	<0.1
2036	Option 4	Overflights_Day	5	3	3.9	6	2.6	35	18.1	1	3.9	1	1.2	15	8.5
			10	1	<0.1	1	0.4	19	6.2	0	0	1	<0.1	8	4.8
			20	0	0	0	0	12	2.3	0	0	0	0	7	1.2
			50	0	0	0	0	0	0	0	0	0	0	2	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1

Biodiversity Data

Scenario: DS_Option_4

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 4	Overflights_Night	5	0	0	0	0	3	0.6	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 4	Overflights_Night	5	0	0	0	0	3	0.8	0	0	0	0	3	0.2
			10	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: DS_Option_5

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 5	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_5

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 5	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_5

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	N65	5	2	0.7	0	0	10	2.7	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 5	N65	5	2	0.7	0	0	10	2.9	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_5

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	N60	5	2	0.9	0	0	3	1.0	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 5	N60	5	2	0.9	0	0	3	1.1	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_5

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	Overflights_Day	5	3	2.8	4	1.8	28	11.5	1	2.1	1	1.3	11	4.8
			10	1	<0.1	3	1.3	18	6.3	0	0	1	0.7	7	3.0
			20	0	0	0	0	10	1.9	0	0	0	0	7	1.7
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 5	Overflights_Day	5	3	5.4	4	1.8	30	14.6	1	3.5	1	1.4	12	5.0
			10	1	<0.1	3	1.3	18	6.5	0	0	1	0.8	9	3.4
			20	0	0	0	0	10	2.1	0	0	0	0	7	1.8
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.4
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1

Biodiversity Data

Scenario: DS_Option_5

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 5	Overflights_Night	5	0	0	0	0	4	0.3	0	0	0	0	5	0.3
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 5	Overflights_Night	5	0	0	0	0	4	0.4	0	0	0	0	5	0.4
			10	0	0	0	0	0	0	0	0	0	0	2	0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_6

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 6	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_6

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 6	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_6

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	N65	5	2	0.7	0	0	9	2.7	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 6	N65	5	2	0.7	0	0	10	2.8	1	0.2	0	0	3	0.6
			10	2	0.7	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_6

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	N60	5	2	0.9	0	0	3	1.0	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 6	N60	5	2	0.9	0	0	4	1.1	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_6

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	Overflights_Day	5	3	1.3	4	1.8	29	11.8	1	0.6	1	1.3	11	4.8
			10	1	<0.1	3	1.3	19	6.2	0	0	1	0.7	7	3.1
			20	0	0	0	0	10	1.9	0	0	0	0	7	1.7
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.2
			100	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 6	Overflights_Day	5	3	2.9	4	1.8	31	13.9	1	1.0	1	1.4	12	5.0
			10	1	<0.1	3	1.3	19	6.5	0	0	1	0.8	9	3.5
			20	0	0	0	0	10	2.1	0	0	0	0	7	1.8
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.4
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1

Biodiversity Data

Scenario: DS_Option_6

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 6	Overflights_Night	5	0	0	0	0	4	0.3	0	0	0	0	5	0.3
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 6	Overflights_Night	5	0	0	0	0	4	0.4	0	0	0	0	5	0.4
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
			20	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_7

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 7	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_7

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 7	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.5
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_7

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	N65	5	2	0.7	0	0	11	2.6	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 7	N65	5	2	0.8	0	0	11	2.8	1	0.3	0	0	3	0.6
			10	2	0.6	0	0	4	0.8	1	0.1	0	0	3	0.5
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_7

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	N60	5	2	0.9	0	0	2	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 7	N60	5	2	0.9	0	0	3	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_7

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	Overflights_Day	5	3	5.1	4	1.6	29	13.9	1	4.4	1	1.3	11	4.8
			10	1	<0.1	3	1.3	19	6.7	0	0	1	0.7	7	3.0
			20	0	0	0	0	11	2.6	0	0	0	0	7	1.7
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.2
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 7	Overflights_Day	5	3	6.7	4	1.7	32	16.2	1	4.8	1	1.4	12	5.0
			10	1	<0.1	3	1.3	19	6.9	0	0	1	0.8	9	3.4
			20	0	0	0	0	11	2.9	0	0	0	0	7	1.8
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.4
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1

Biodiversity Data

Scenario: DS_Option_7

Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 7	Overflights_Night	5	0	0	0	0	5	0.9	0	0	0	0	5	0.3
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 7	Overflights_Night	5	0	0	0	0	5	1.1	0	0	0	0	5	0.4
			10	0	0	0	0	0	0	0	0	0	0	2	0.1

Biodiversity Data

Scenario: DS_Option_8

Metric: LAEQ16HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 8	LAEQ16HR	51	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			54	1	0.4	0	0	1	0.4	0	0	0	0	3	0.2
			57	1	0.1	0	0	1	0.1	0	0	0	0	2	0.1
			60	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			66	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
			69	0	0	0	0	0	0	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_8

Metric: LAEQ8HR

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0
2036	Option 8	LAEQ8HR	45	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.6
			48	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			51	1	0.3	0	0	1	0.3	0	0	0	0	2	0.1
			54	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			55	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			57	1	0.1	0	0	1	0.1	0	0	0	0	1	<0.1
			60	1	<0.1	0	0	1	<0.1	0	0	0	0	1	<0.1
			63	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_8

Metric: N65

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	N65	5	2	0.7	0	0	10	2.5	1	0.2	0	0	3	0.6
			10	2	0.6	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.2	0	0	1	0.2	0	0	0	0	2	0.1
			200	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 8	N65	5	2	0.8	0	0	11	2.7	1	0.3	0	0	3	0.6
			10	2	0.7	0	0	5	0.8	1	0.1	0	0	3	0.6
			20	1	0.6	0	0	1	0.6	0	0	0	0	3	0.4
			50	1	0.6	0	0	1	0.6	0	0	0	0	3	0.3
			100	1	0.3	0	0	1	0.3	0	0	0	0	3	0.2
			200	1	<0.1	0	0	1	<0.1	0	0	0	0	0	0

Biodiversity Data

Scenario: DS_Option_8

Metric: N60

Year	Scenario	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	N60	5	2	0.9	0	0	2	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	<0.1	0	0	3	0.4
			20	1	0.5	0	0	1	0.5	0	0	0	0	1	<0.1
2036	Option 8	N60	5	2	0.9	0	0	4	0.9	1	0.3	0	0	3	0.5
			10	2	0.6	0	0	2	0.6	1	0.1	0	0	3	0.4
			20	1	0.6	0	0	1	0.6	0	0	0	0	1	<0.1

Biodiversity Data

Scenario: DS_Option_8

Metric: Overflights_Day

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	Overflights_Day	5	3	3.5	4	1.6	30	14.1	1	2.8	1	1.3	11	4.8
			10	1	<0.1	3	1.3	20	6.6	0	0	1	0.7	7	3.1
			20	0	0	0	0	11	2.6	0	0	0	0	7	1.7
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.2
			100	0	0	0	0	0	0	0	0	0	0	0	0
2036	Option 8	Overflights_Day	5	3	5.8	4	1.7	32	17.0	1	3.9	1	1.4	12	5.0
			10	1	<0.1	3	1.3	20	6.9	0	0	1	0.8	9	3.5
			20	0	0	0	0	11	2.8	0	0	0	0	7	1.8
			50	0	0	0	0	2	0.3	0	0	0	0	4	0.4
			100	0	0	0	0	0	0	0	0	0	0	2	<0.1

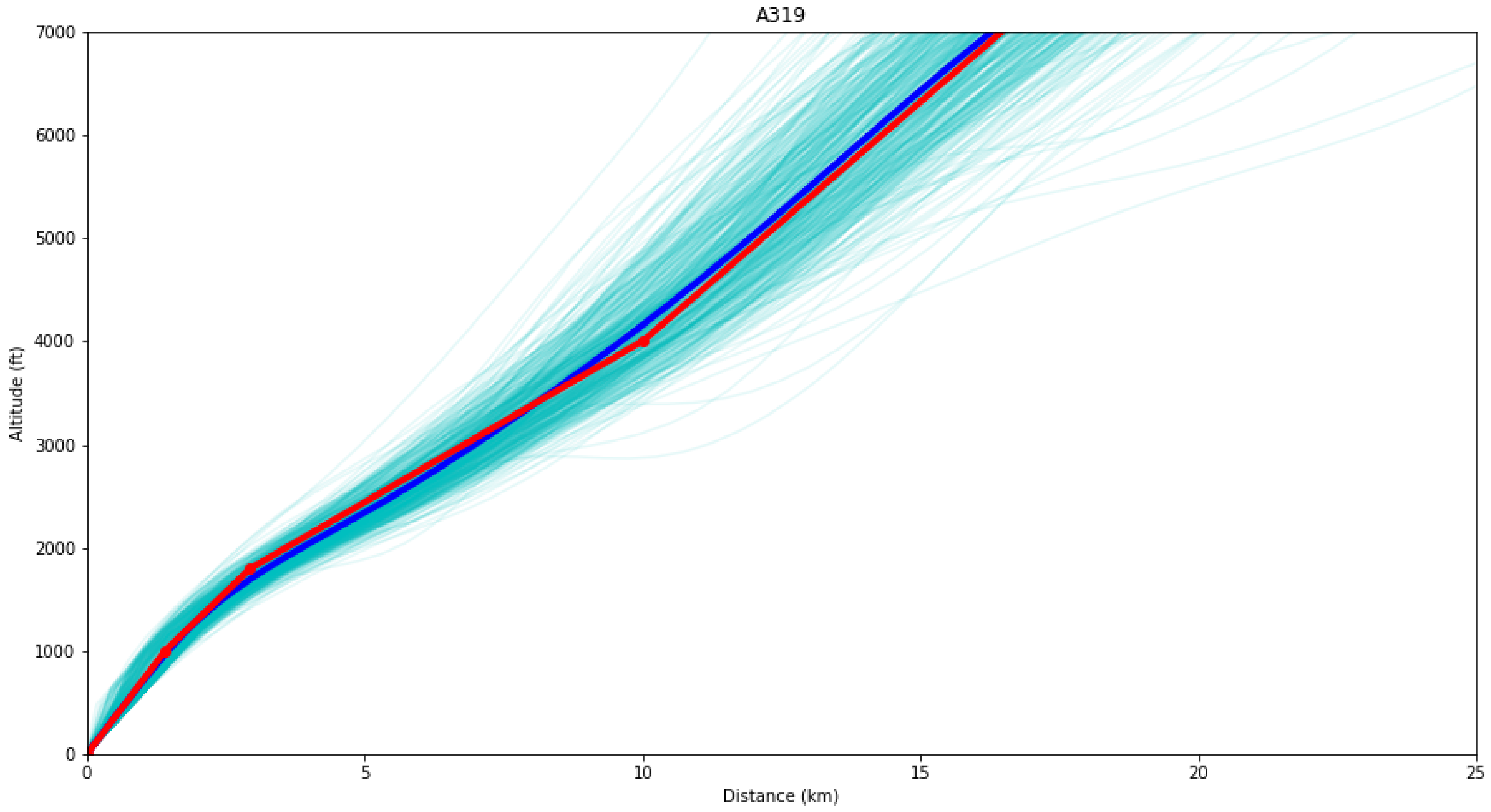
Biodiversity Data

Scenario: DS_Option_8

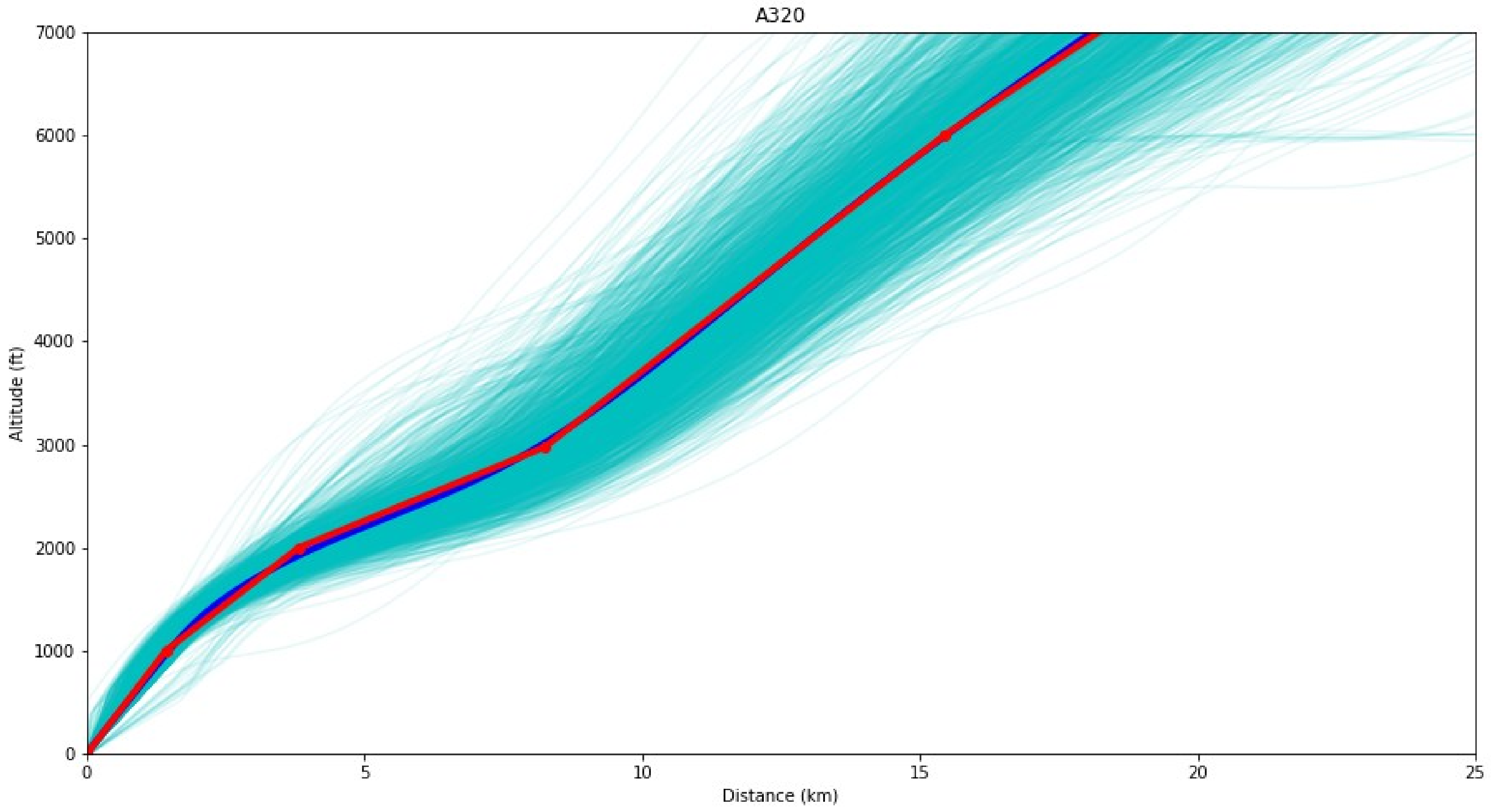
Metric: Overflights_Night

Year	Scen.	Metric	Contour	SPA		SAC		SSSI		RAMSAR		National Nature Reserves		Local Nature Reserves	
				Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)	Total	Area (km2)
2027	Option 8	Overflights_Night	5	0	0	0	0	5	0.9	0	0	0	0	5	0.3
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1
2036	Option 8	Overflights_Night	5	0	0	0	0	5	1.1	0	0	0	0	5	0.4
			10	0	0	0	0	0	0	0	0	0	0	2	<0.1

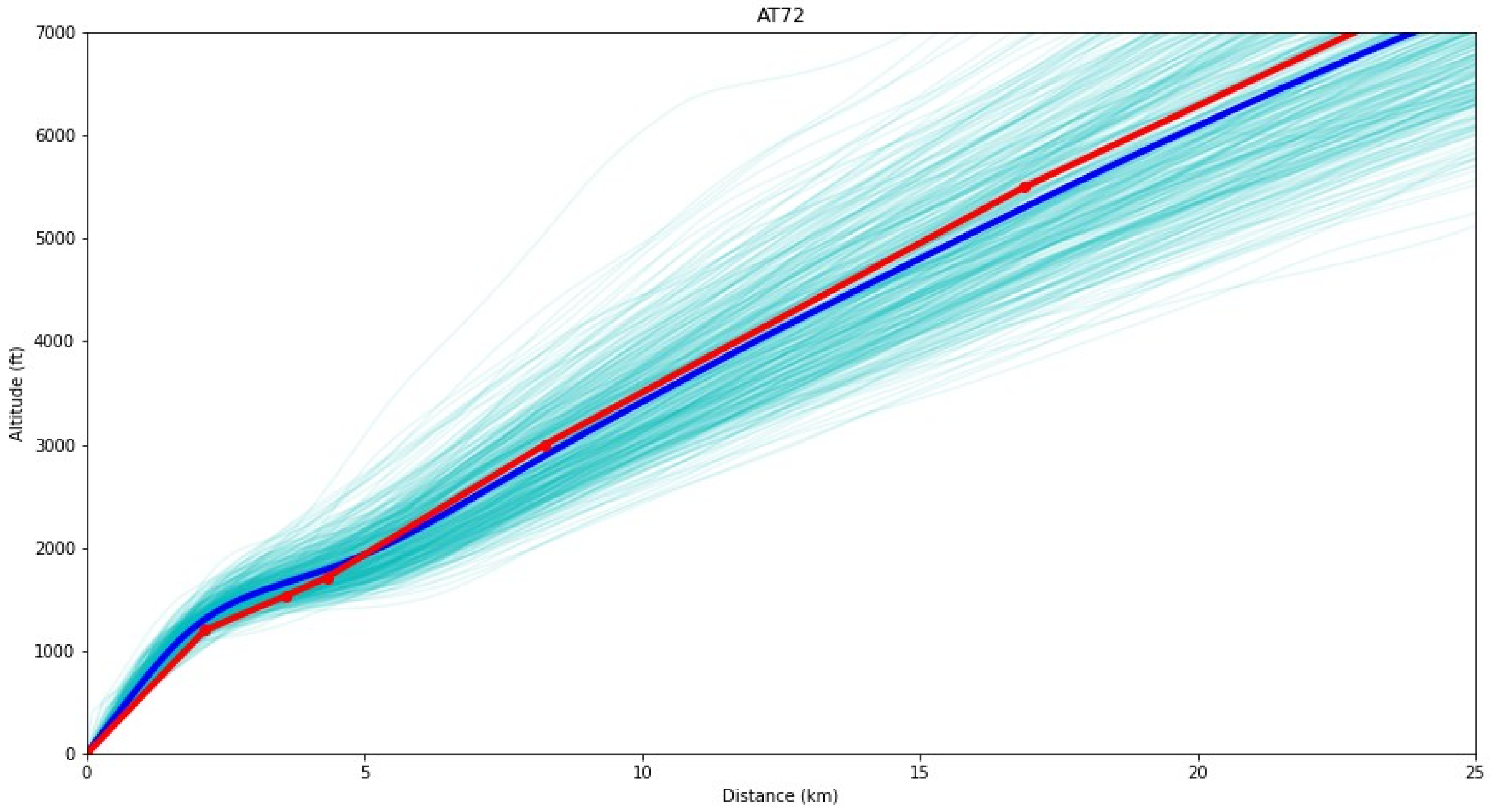
Profile Charts



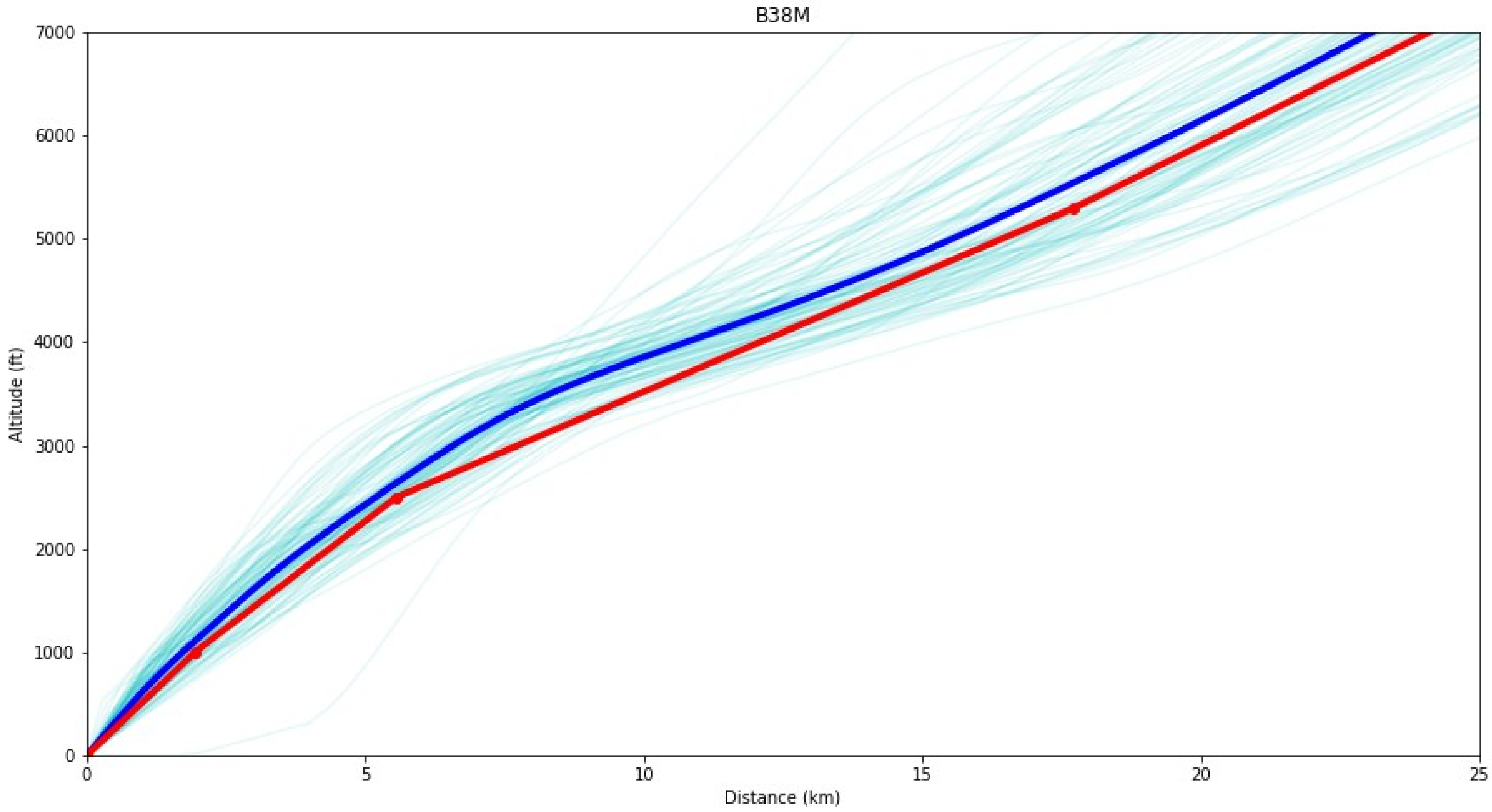
Profile Charts



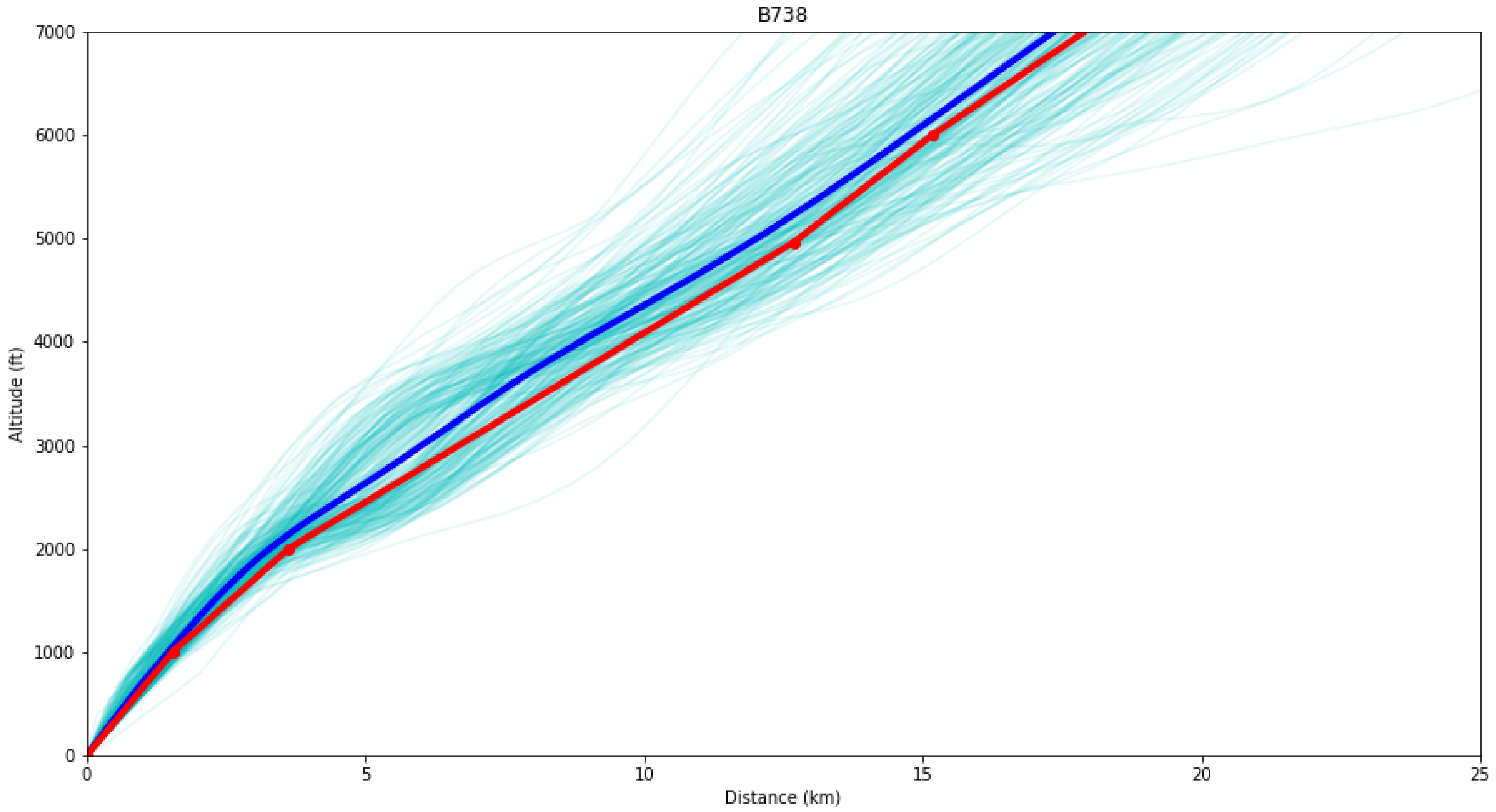
Profile Charts



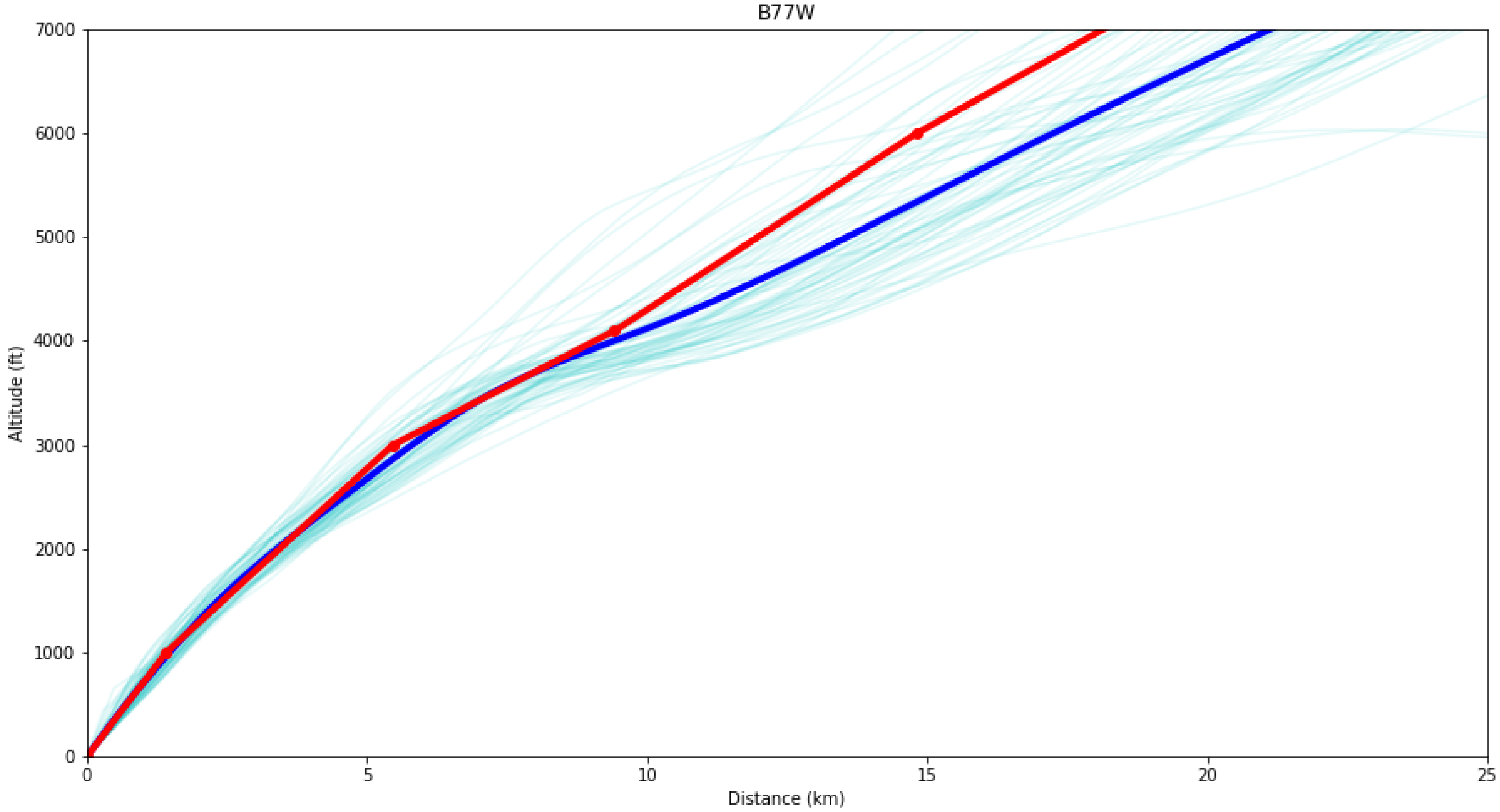
Profile Charts



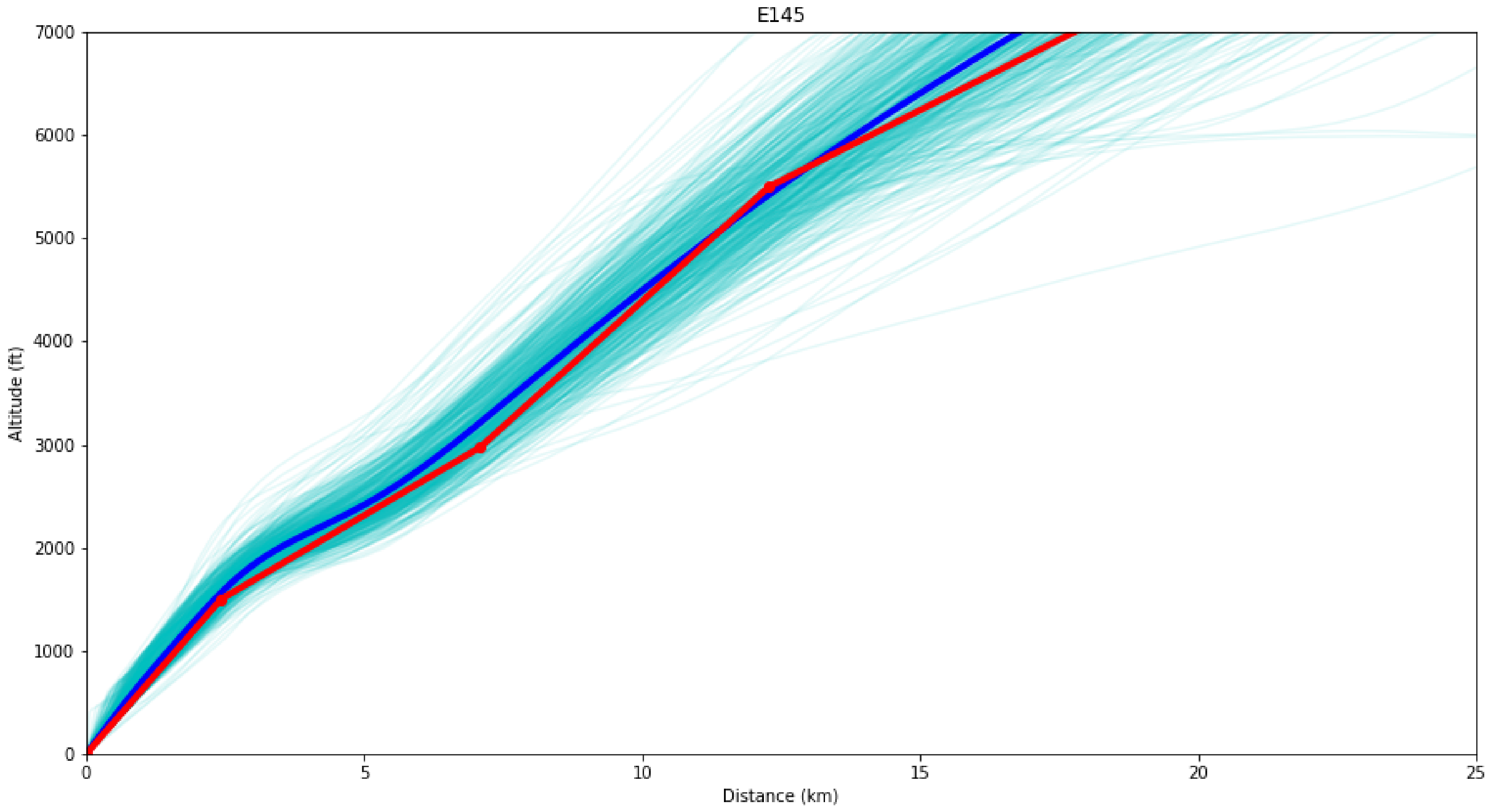
Profile Charts



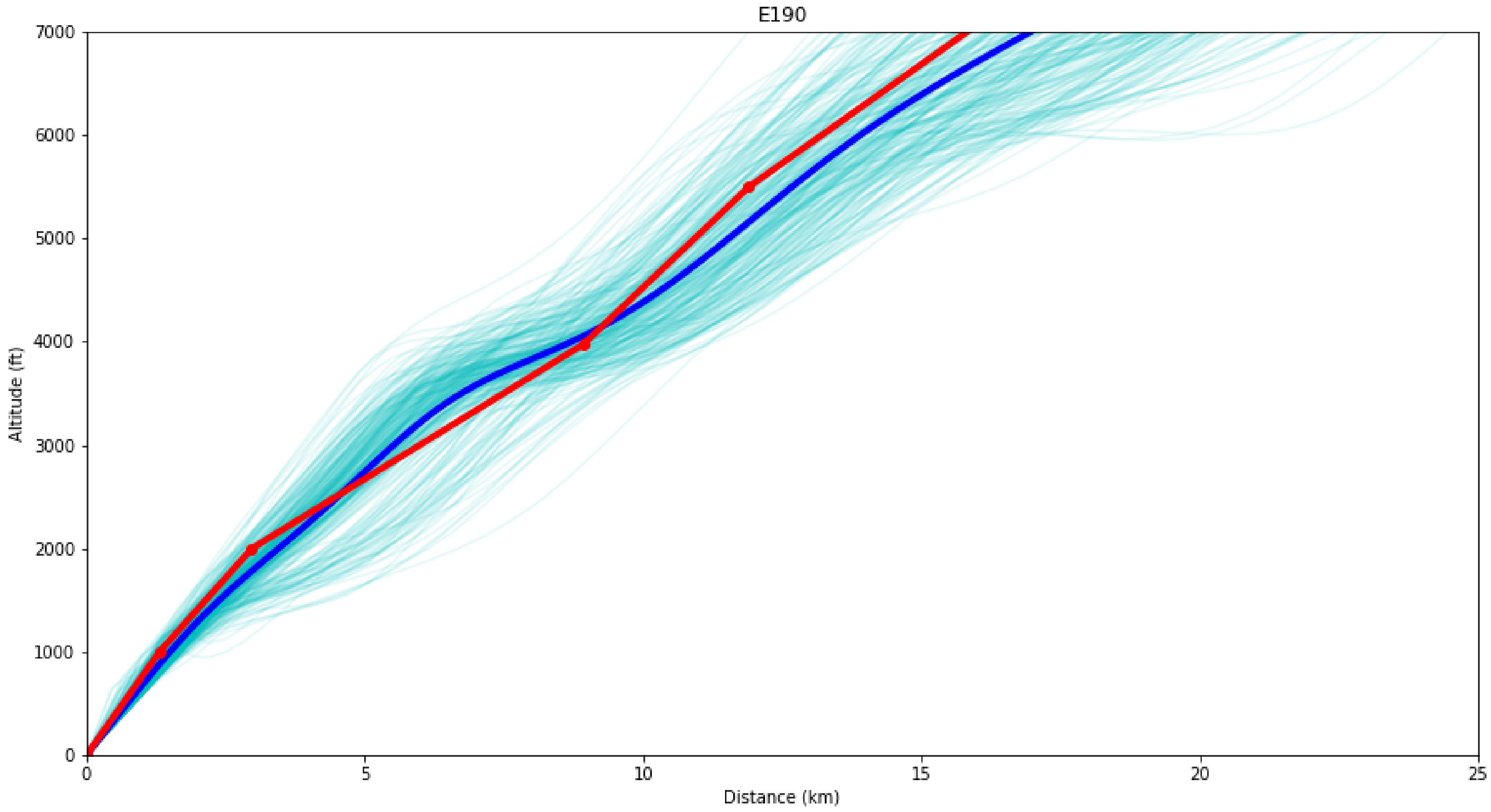
Profile Charts



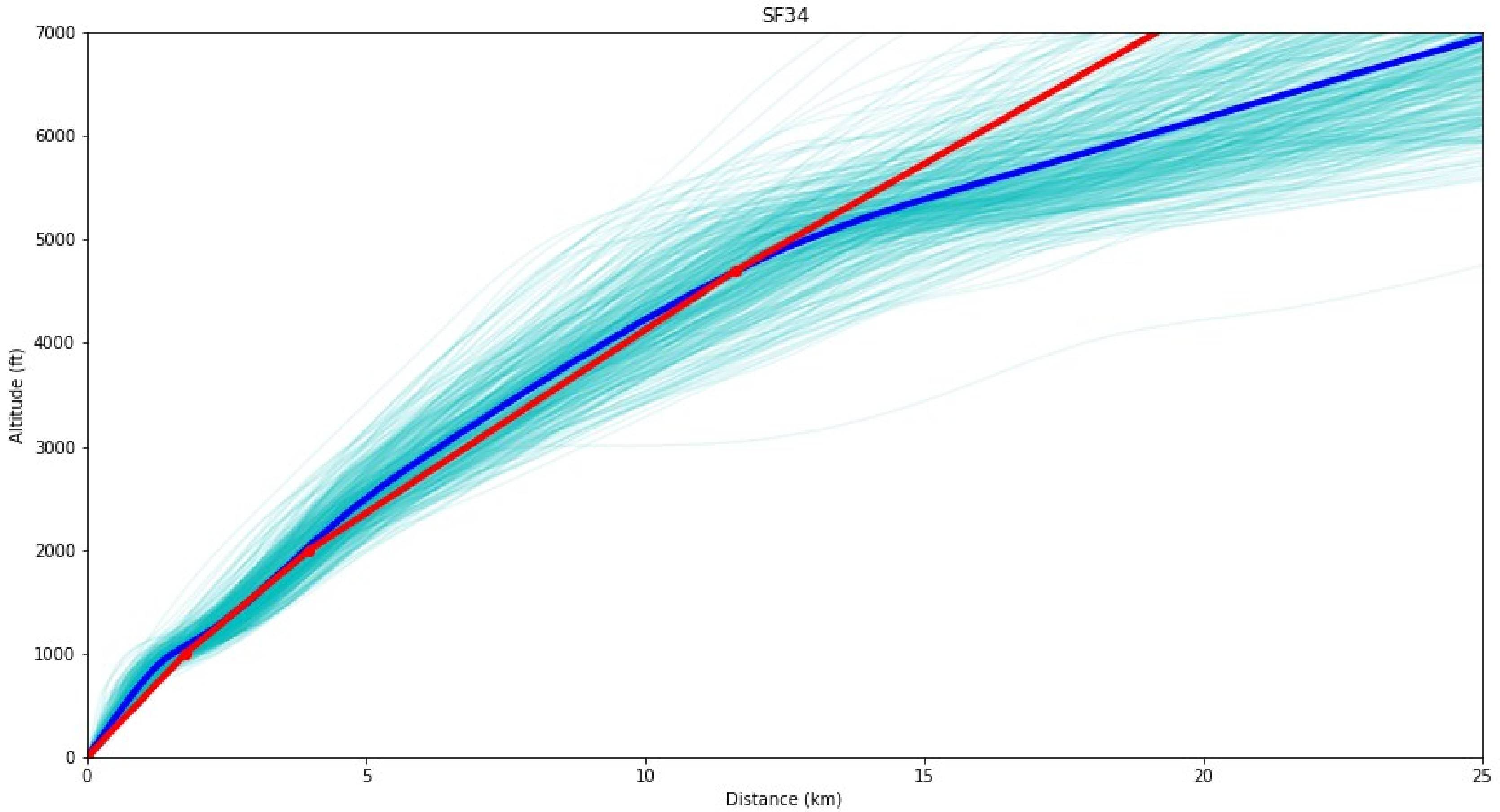
Profile Charts

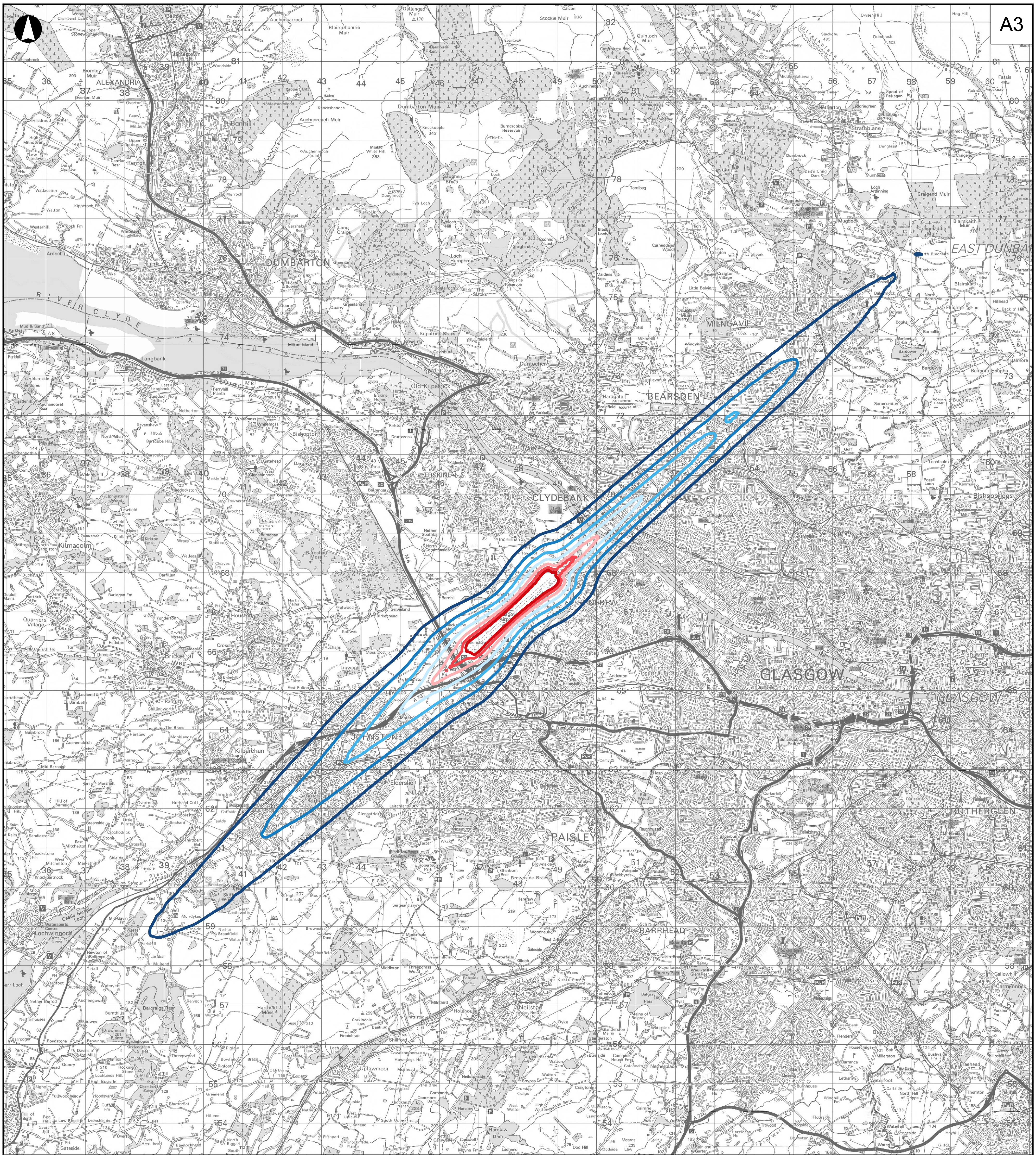


Profile Charts



Profile Charts





Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
Glasgow Airport FASI-N Airspace Change Proposal

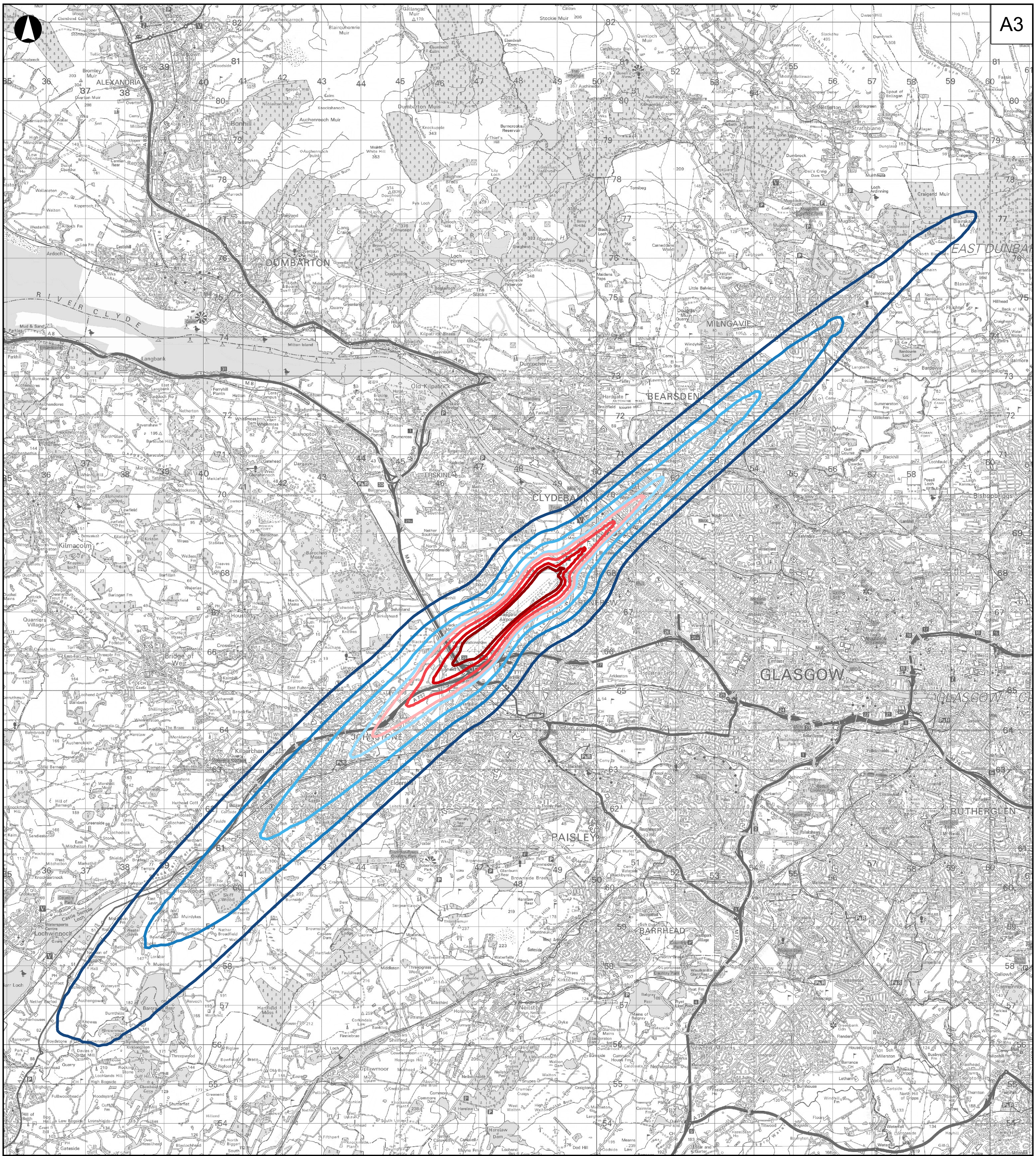
Drawing Title
**Figure TA1:
2022 Without Airspace Change
92-day summer daytime $L_{Aeq,16h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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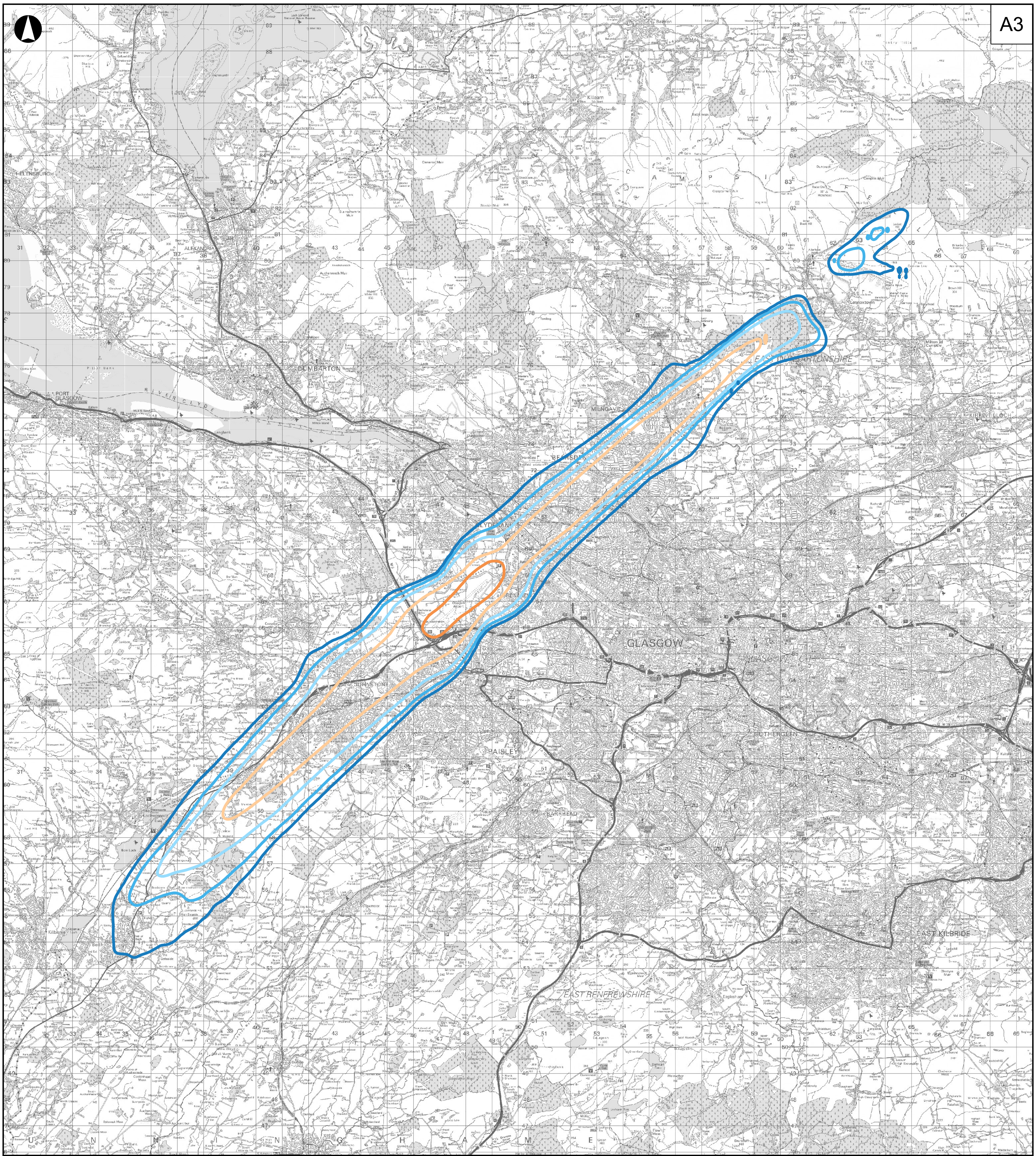
Drawing Title
**Figure TA2:
2022 Without Airspace Change
92-day summer night-time $L_{Aeq,8h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 2.5 5 10

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Project Name

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Proposal**

Drawing Title

**Figure TA3:
2022 Without Airspace Change
92-day summer daytime N65**

Scale at A3

1:150,000

Suitability

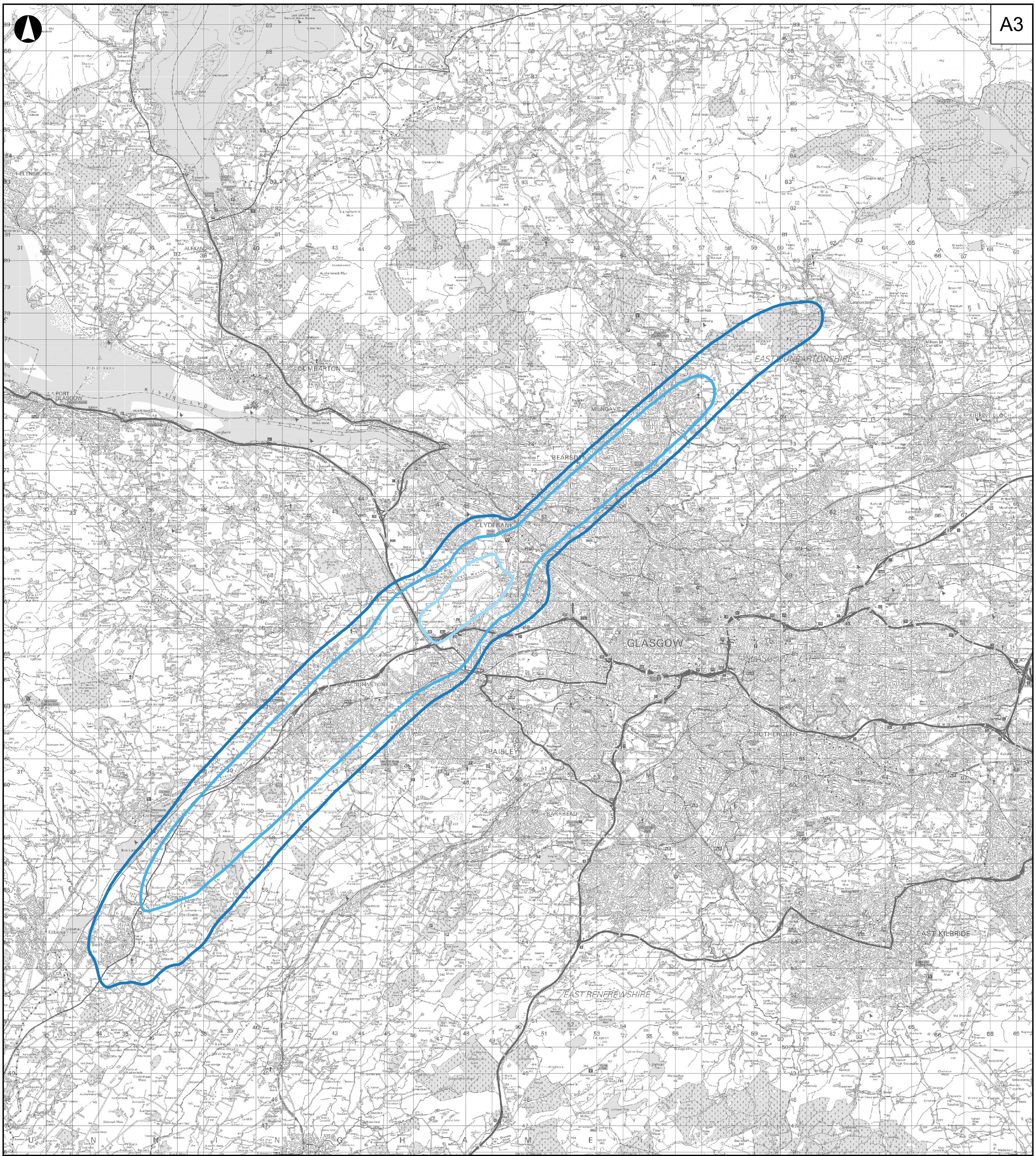
Issue

Project Number

268771-00

Rev

P01



Legend

- 5
- 10
- 20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Project Name
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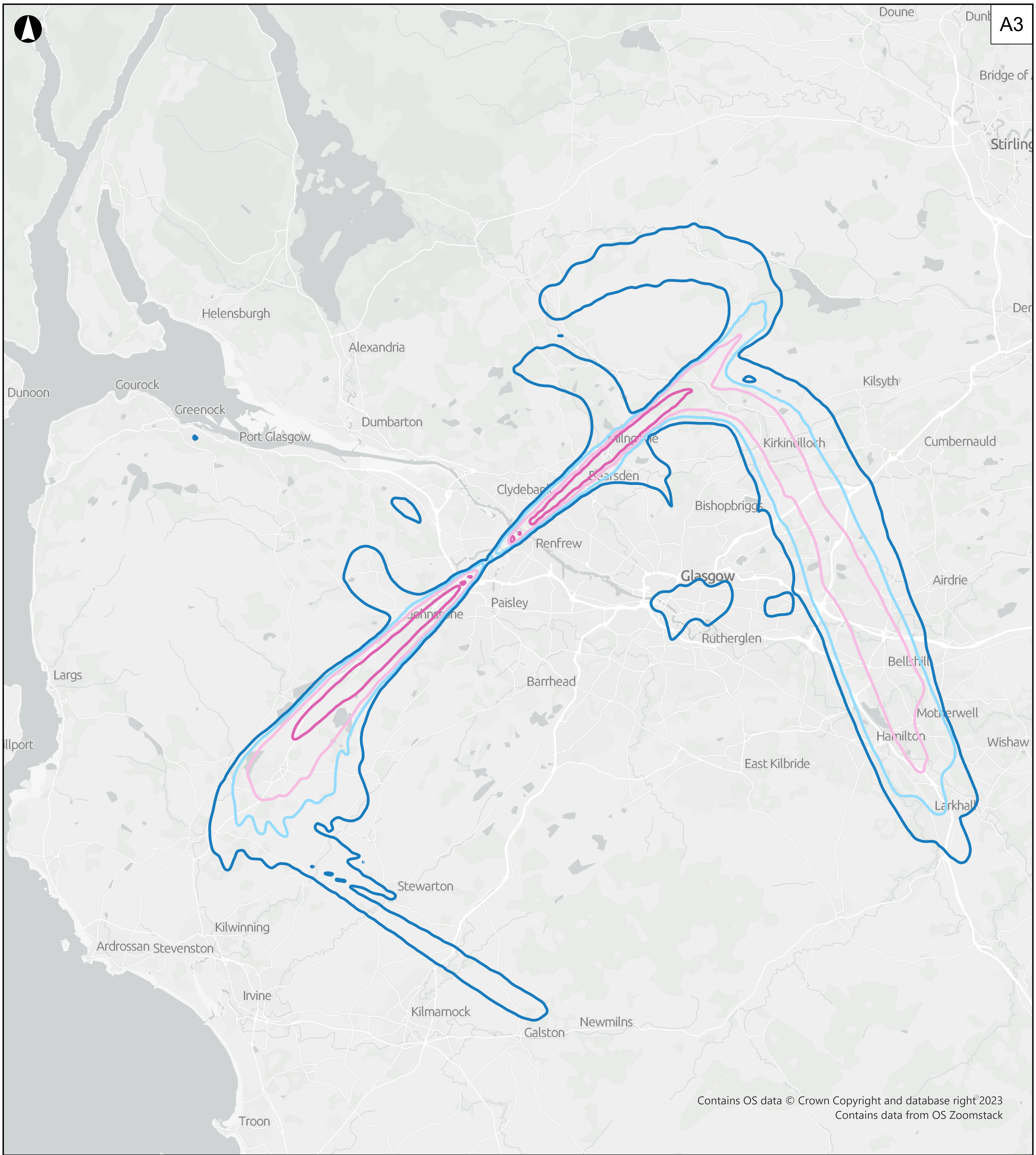
Drawing Title
Figure TA4: 2022 Without Airspace Change 92-day summer night-time N60

Scale at A3
1:150,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Drawing Title

**Figure TA5:
2022 Without Airspace Change
92-day summer daytime
Overflights**

Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**

Legend

5

10

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Drawing Title

Figure TA6: 2022 Without Airspace Change 92-day summer night-time Overflights

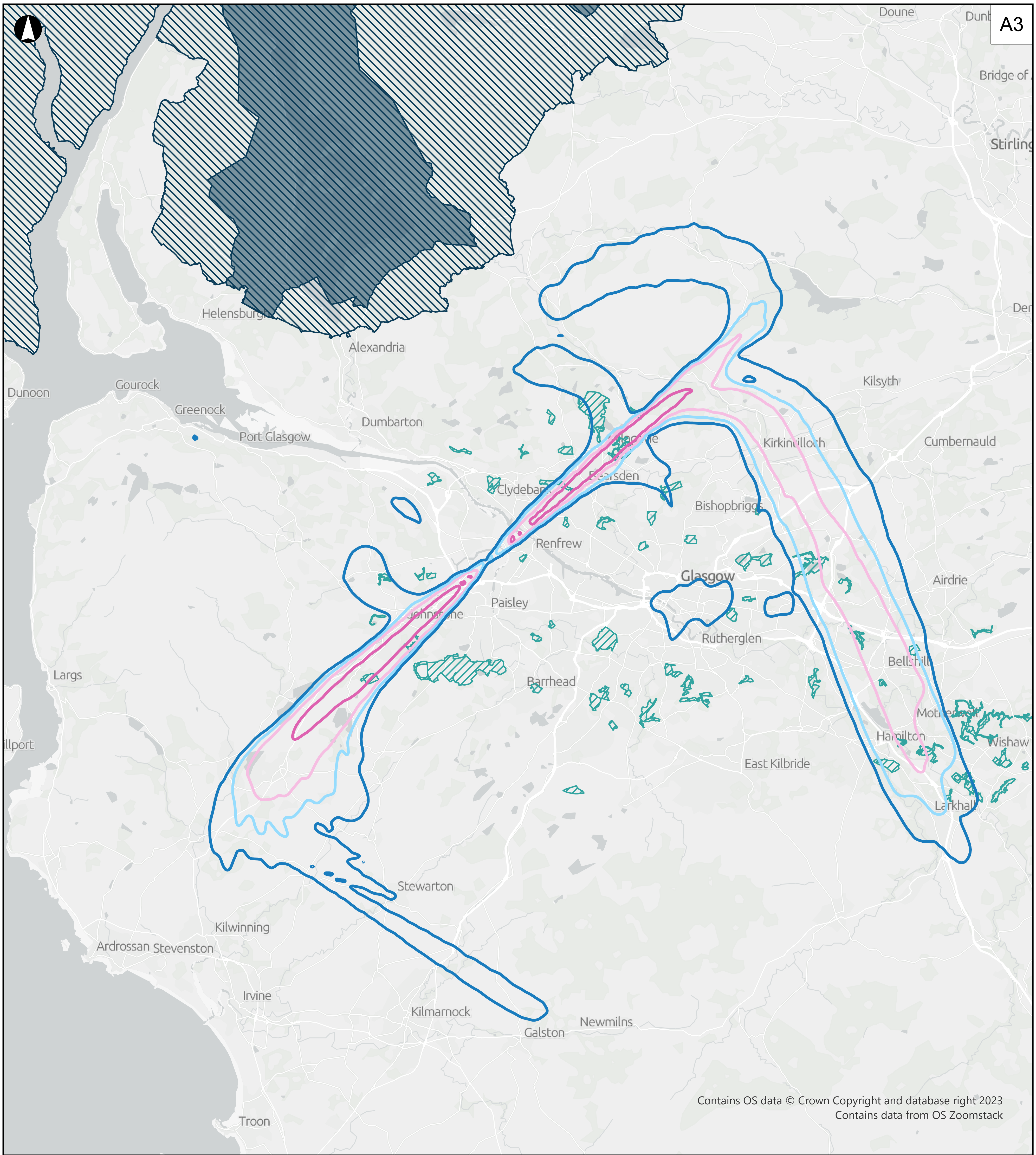
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

- 5
- 10
- 20
- 50
- Candidate Quiet Areas
- Loch Lomond Trossachs National Park
- Loch Lomond National Scenic Area

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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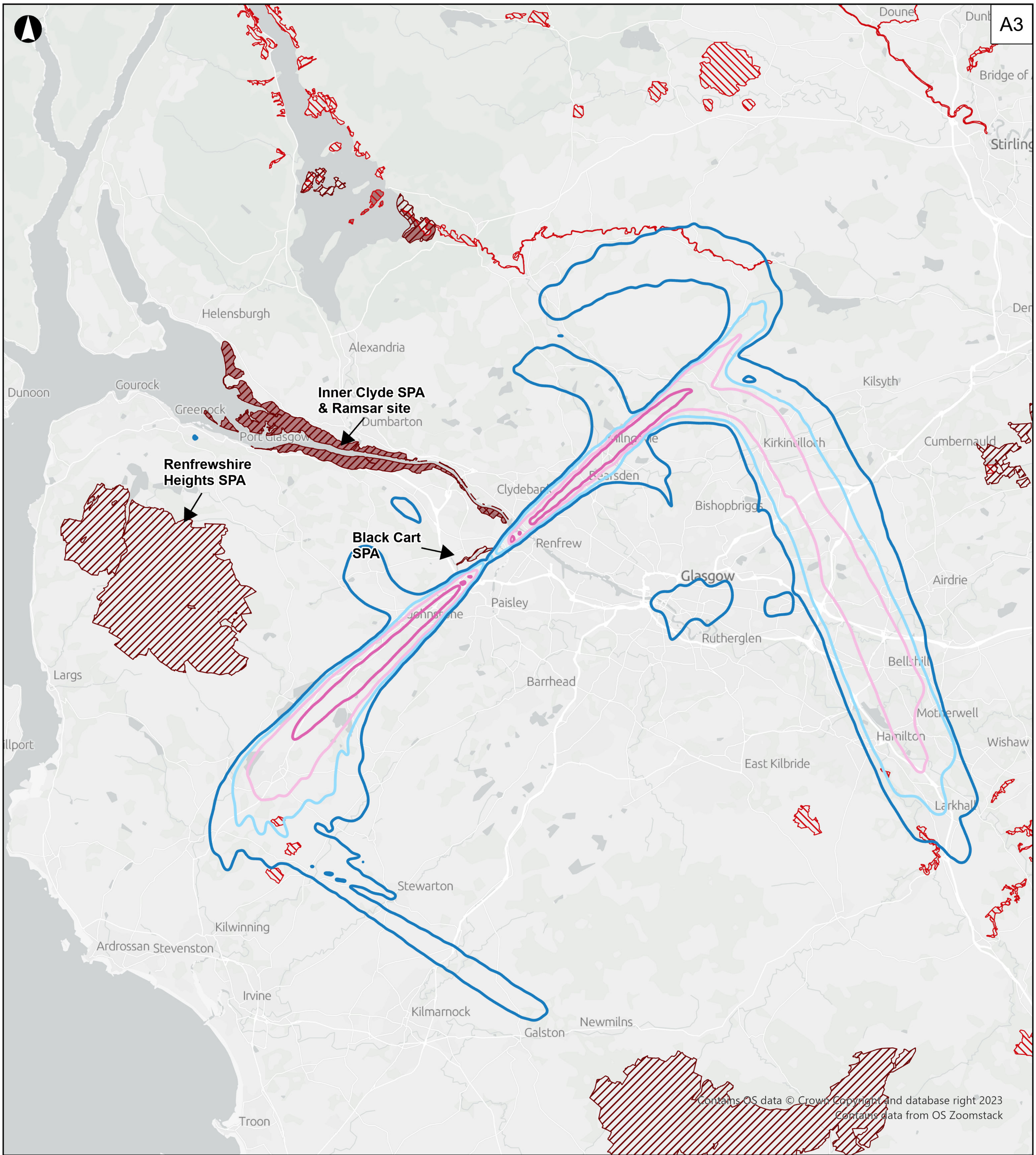
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA7: 2022 Without Airspace Change 92-day summer daytime Overflights with tranquillity areas

Scale at A3
1:250,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20
- 50
- Special Protection Areas
- Special Areas of Conservation
- Ramsar sites

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Project Name
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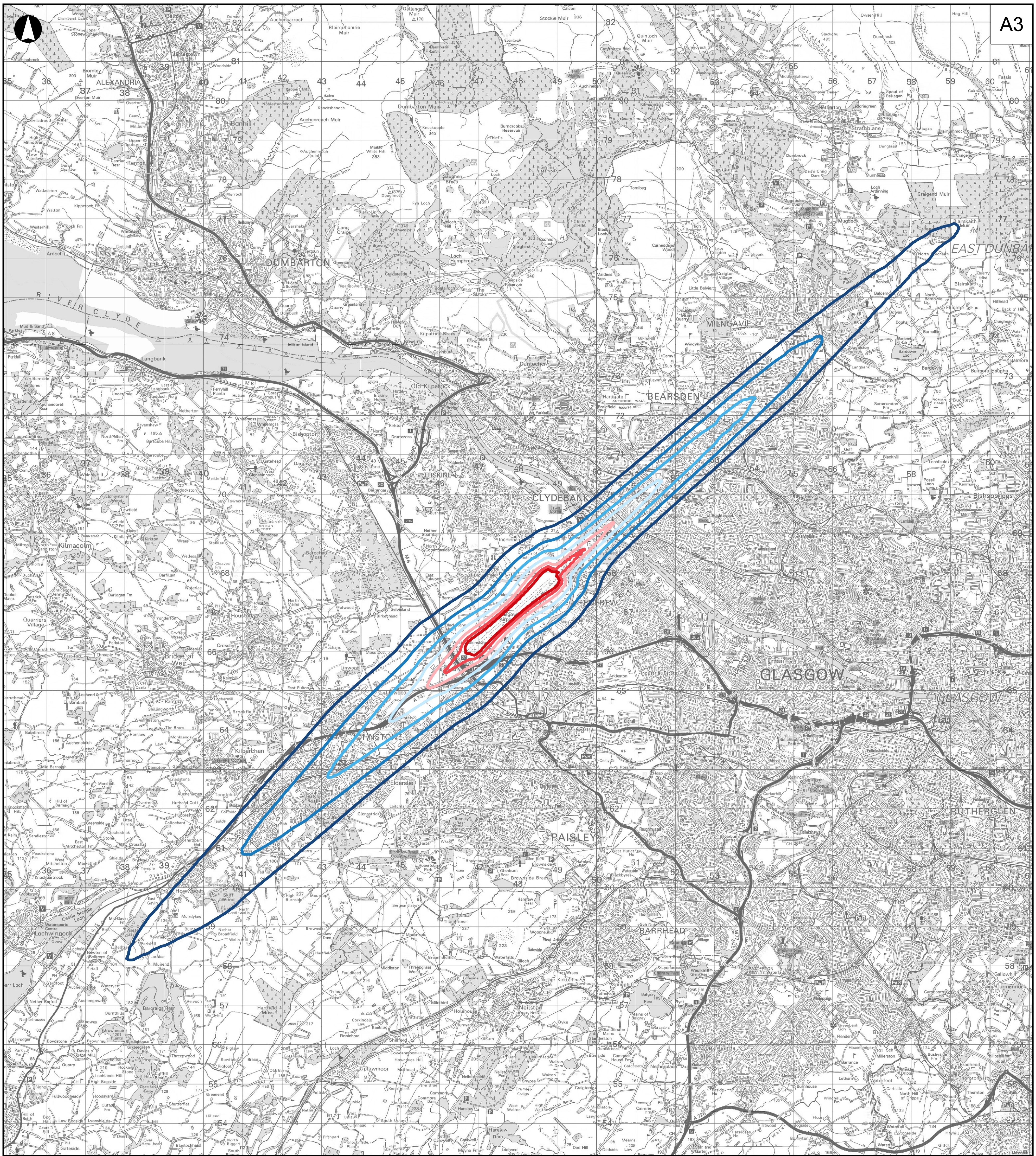
Drawing Title
**Figure TA8:
2022 Without Airspace Change
92-day summer daytime
Overflights with European sites**

Scale at A3
1:250,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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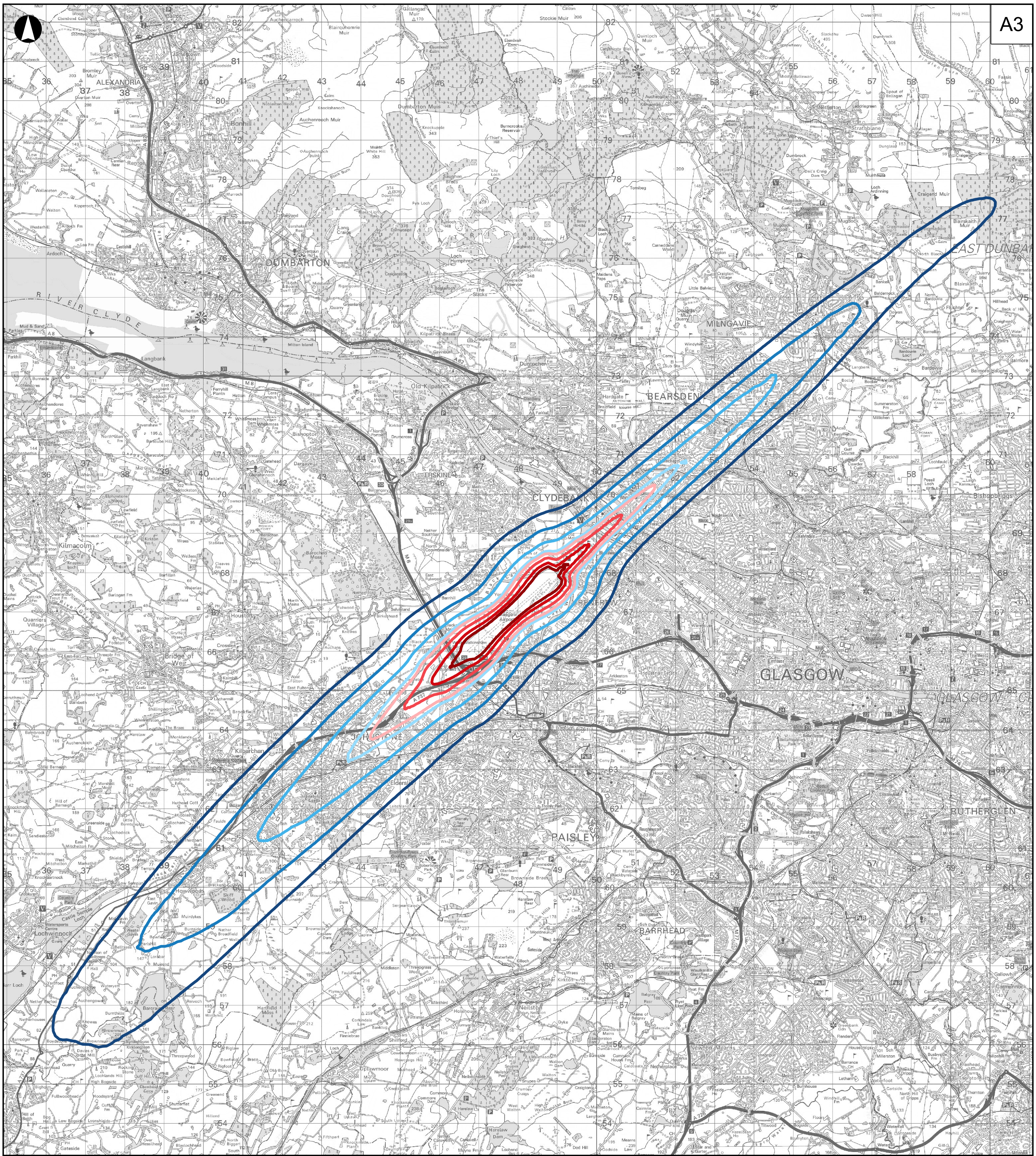
Drawing Title
Figure TA9: 2027 Without Airspace Change 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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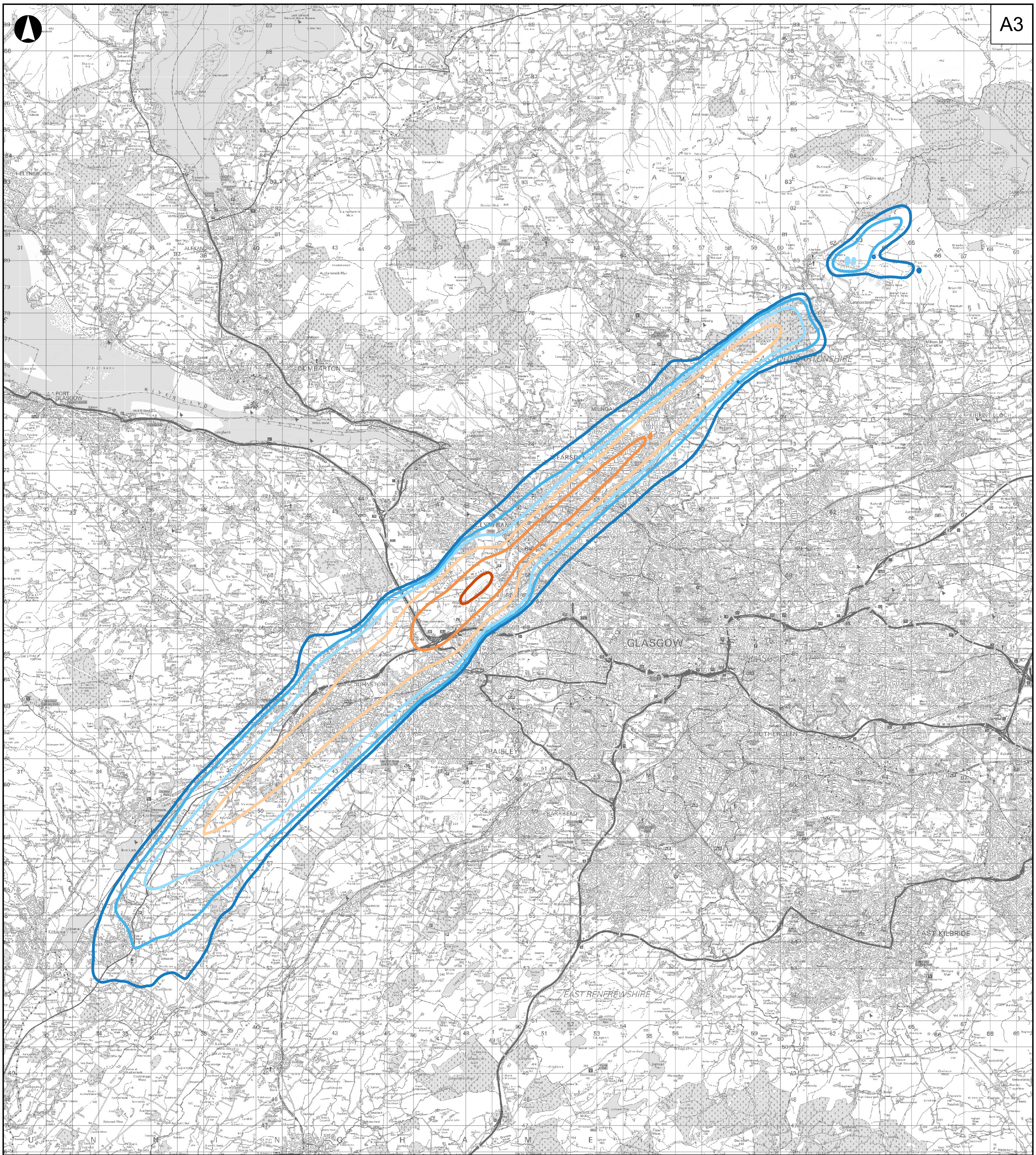
Drawing Title
Figure TA10: 2027 Without Airspace Change 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20
- 50
- 100
- 200

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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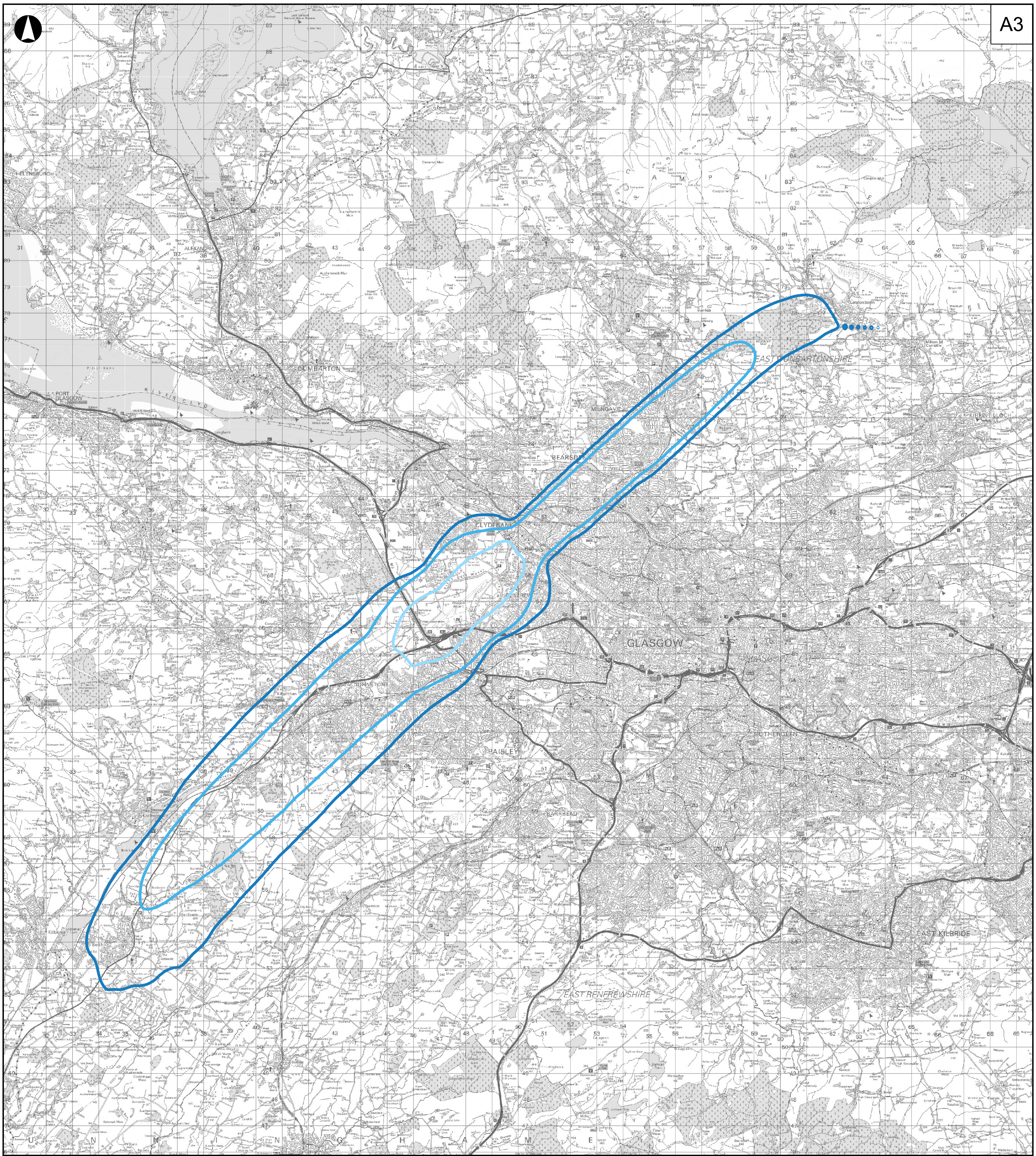
Drawing Title
Figure TA11: 2027 Without Airspace Change 92-day summer daytime N65

Scale at A3
1:150,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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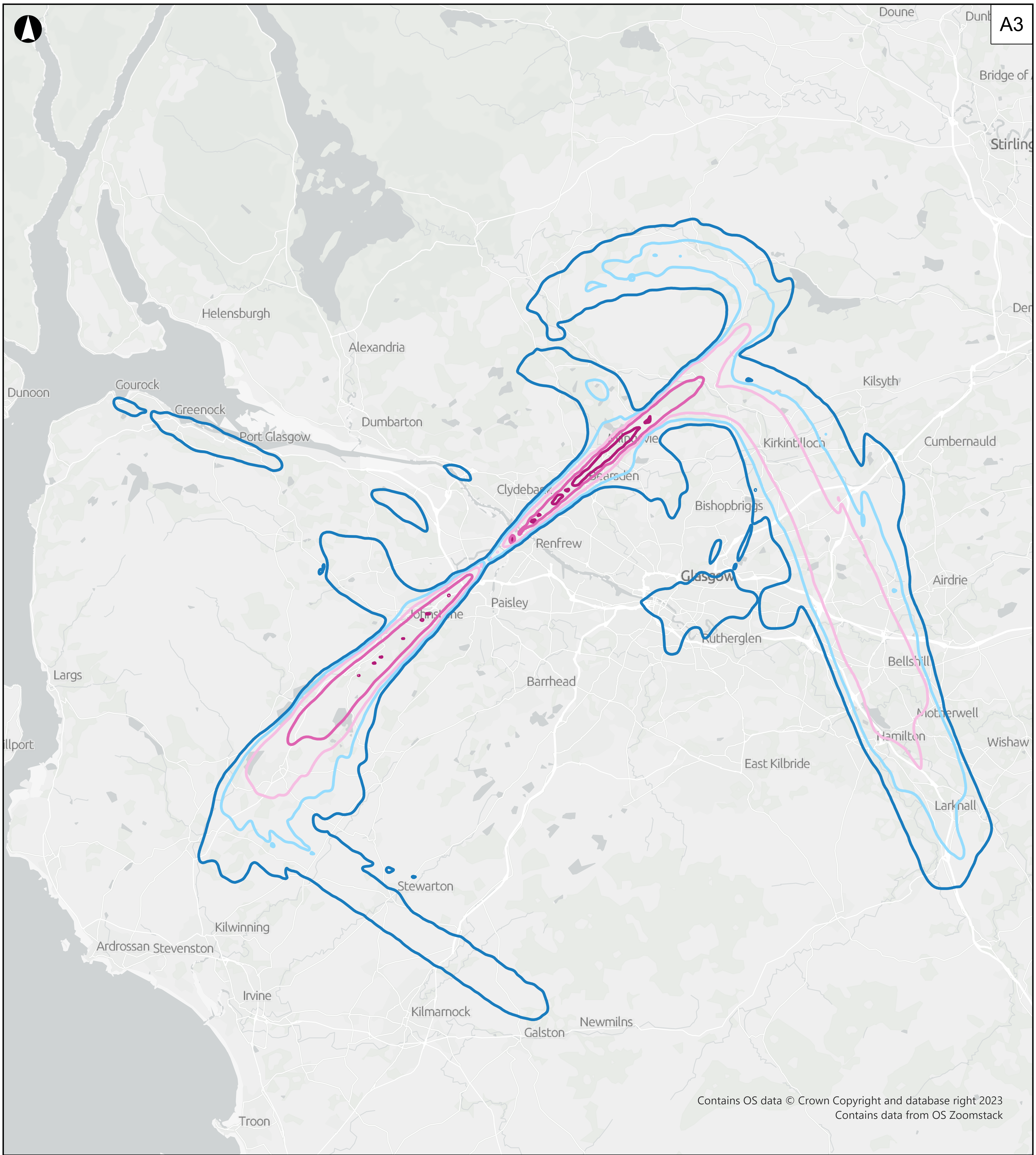
Drawing Title
**Figure TA12:
2027 Without Airspace Change
92-day summer night-time N60**

Scale at A3
1:150,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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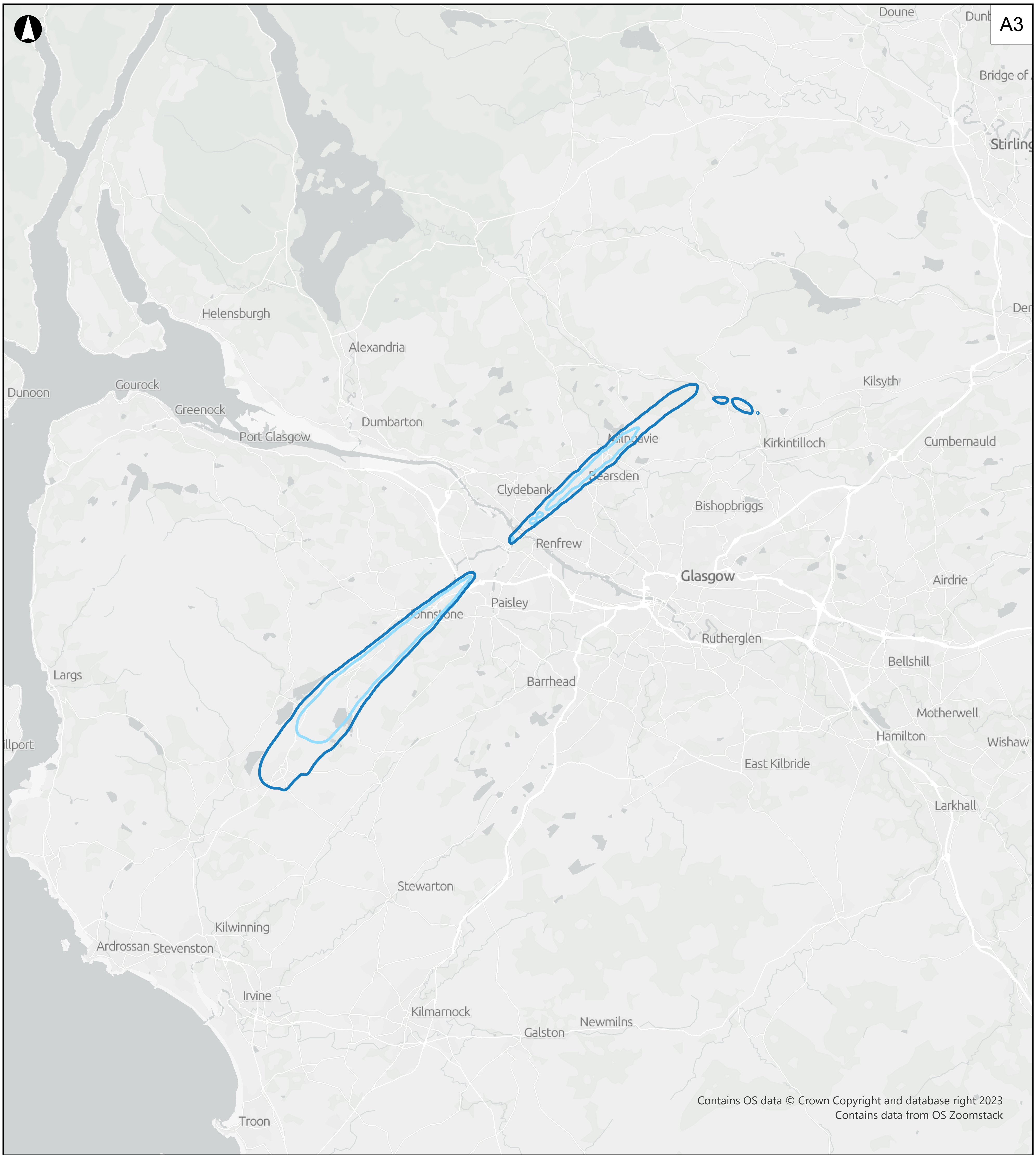
Drawing Title
**Figure TA13:
2027 Without Airspace Change
92-day summer daytime
Overflights**

Scale at A3
1:250,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

5

10

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Project Name

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Drawing Title

Figure TA14: 2027 Without Airspace Change 92-day summer night-time Overflights

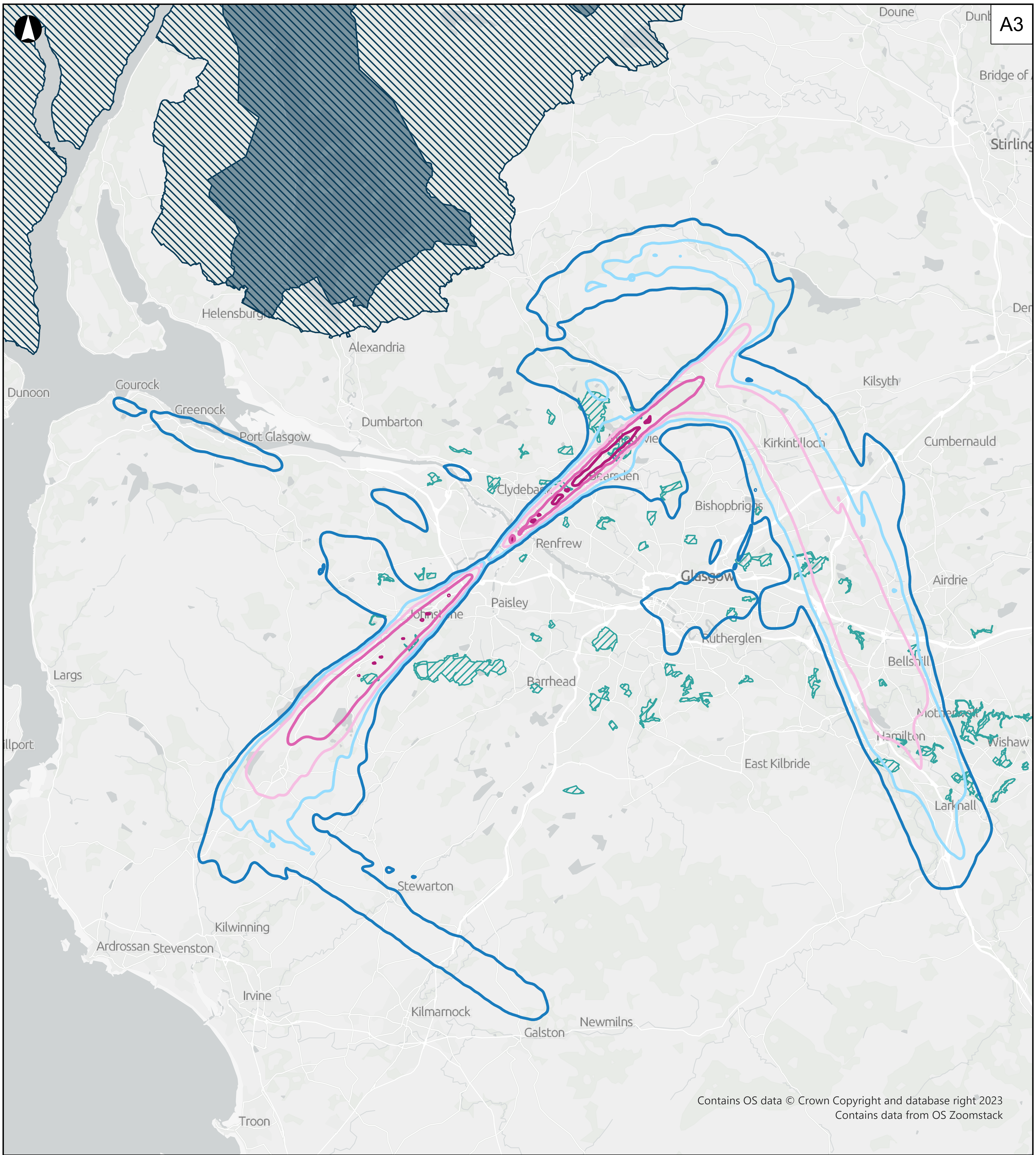
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

- 5
- 10
- 20
- 50
- 100
- Candidate Quiet Areas
- Loch Lomond Trossachs National Park
- Loch Lomond National Scenic Area

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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Project Name
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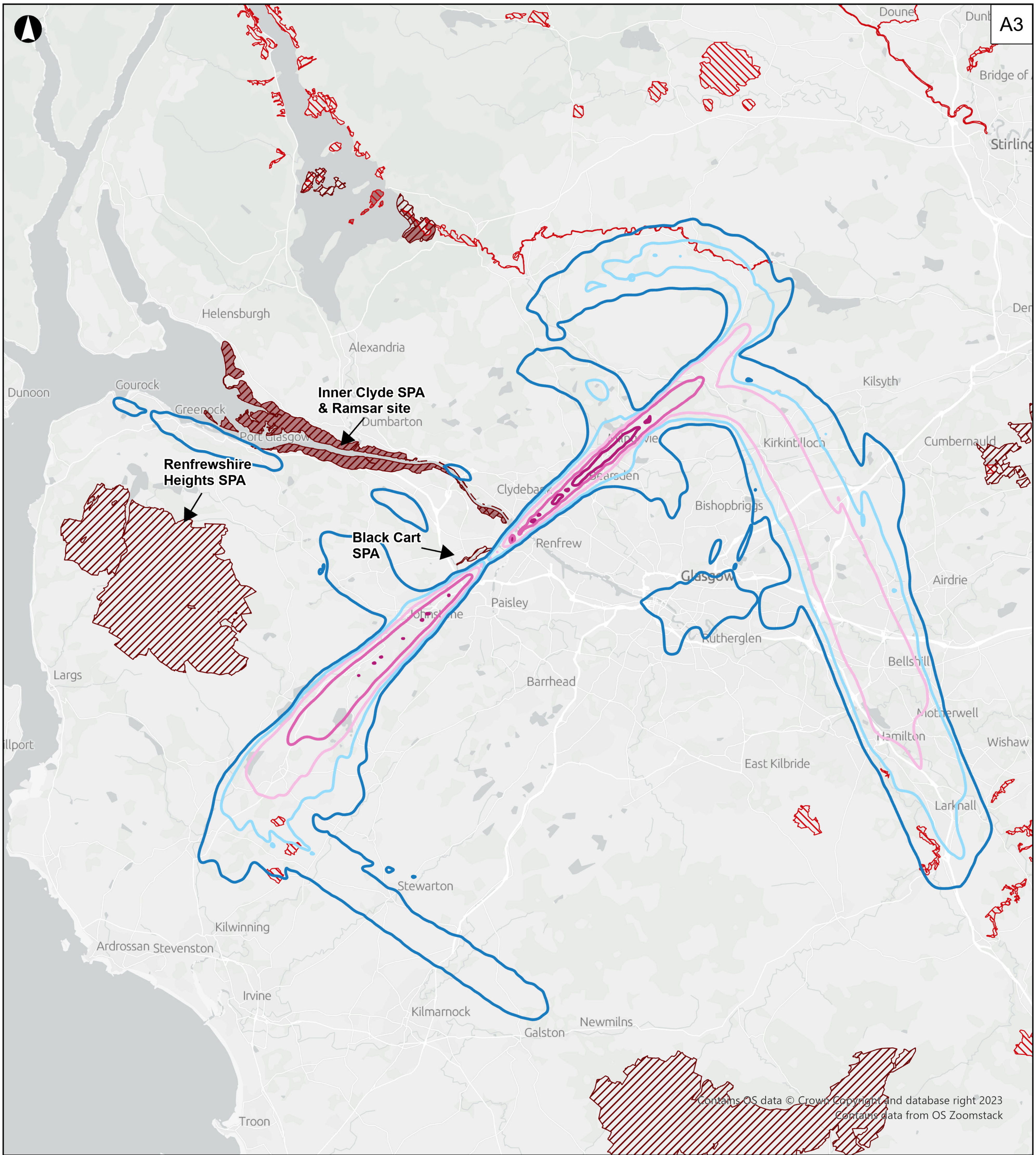
Drawing Title
Figure TA15: 2027 Without Airspace Change 92-day summer daytime Overflights with tranquillity areas

Scale at A3
1:250,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50
- 100
- Special Protection Areas
- Special Areas of Conservation
- Ramsar sites

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Drawing Title

Figure TA16: 2027 Without Airspace Change 92-day summer daytime Overflights with European sites

Scale at A3

1:250,000

Suitability

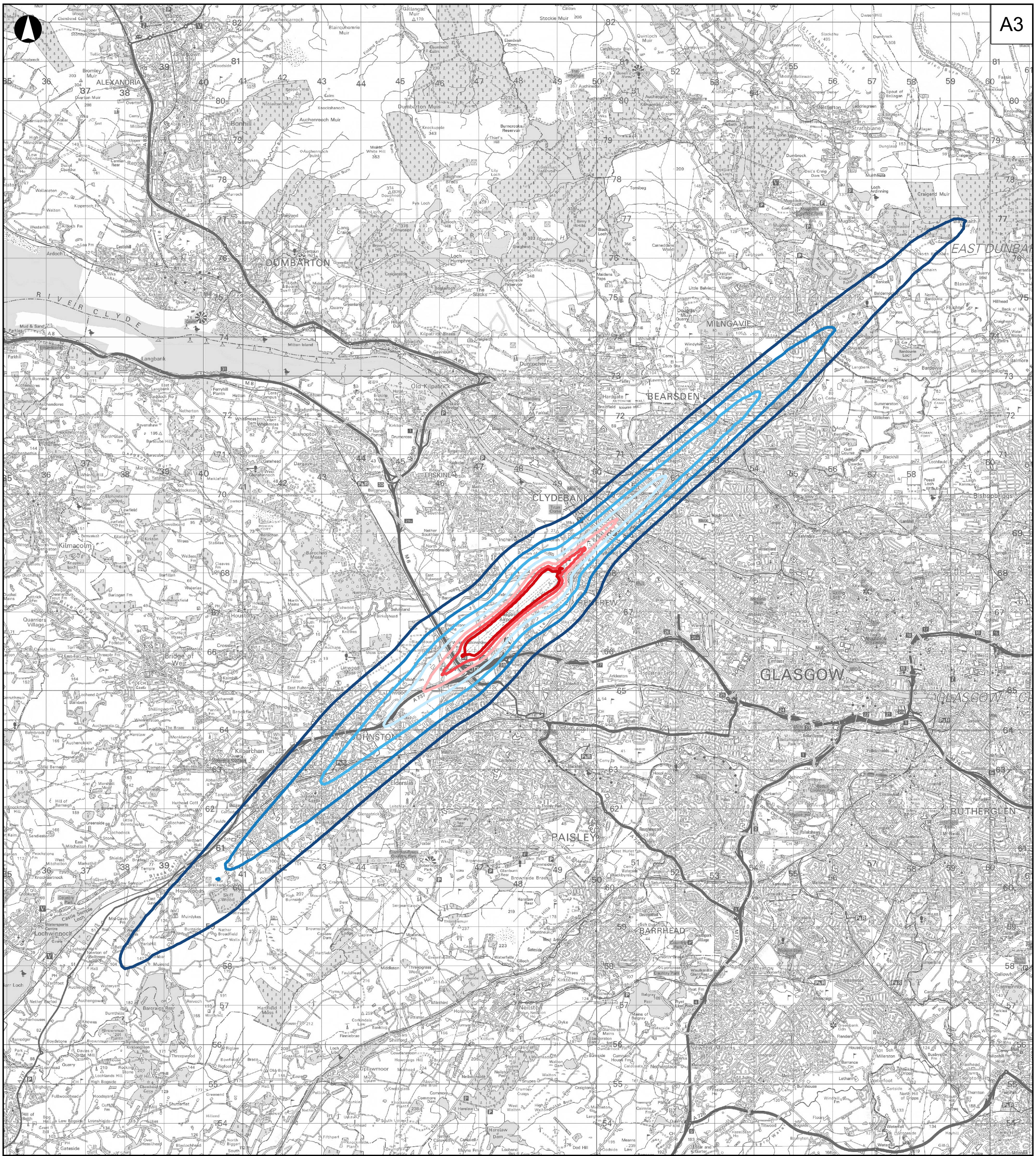
Issue

Project Number

268771-00

Rev

P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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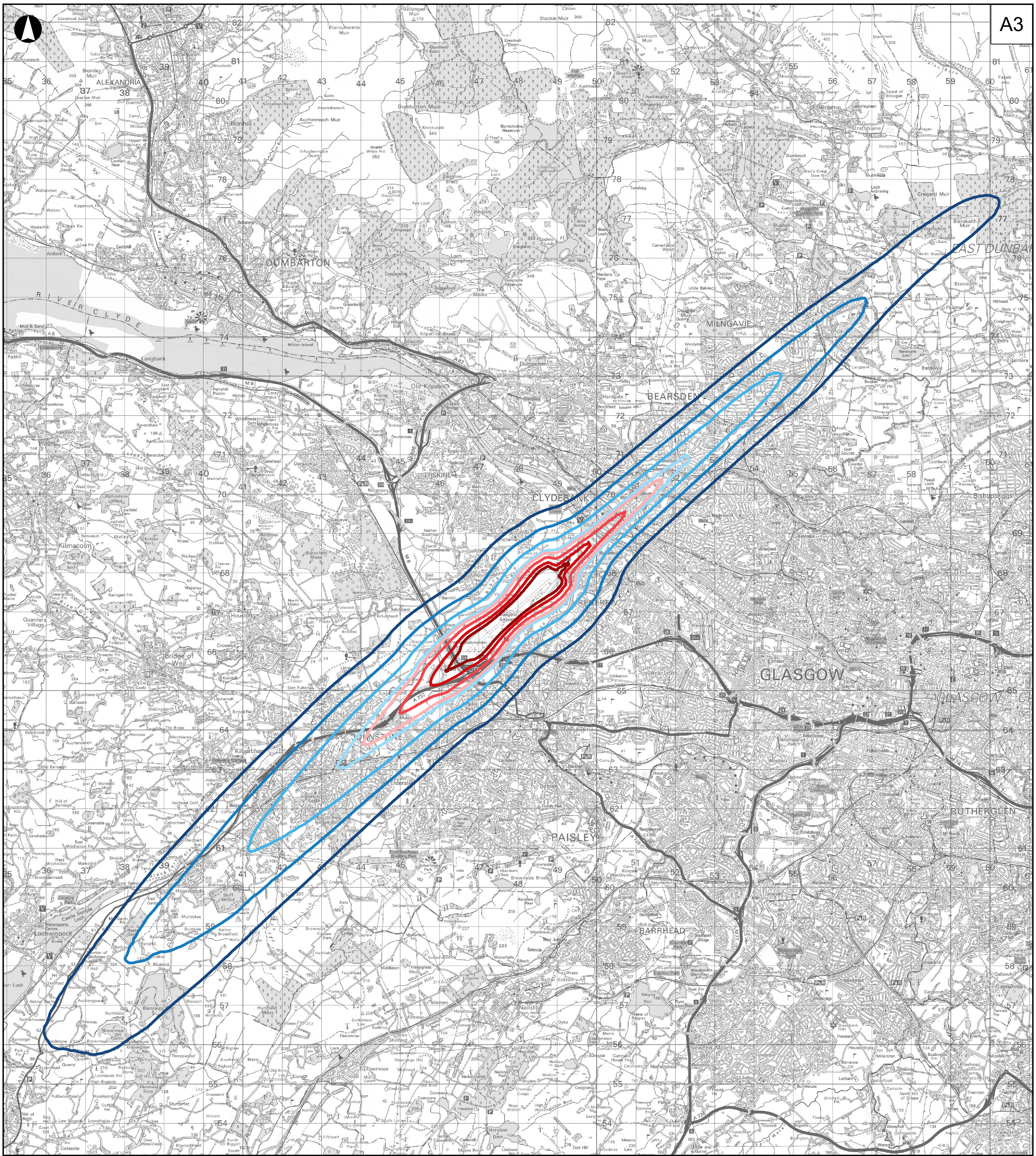
Drawing Title
Figure TA17: 2036 Without Airspace Change 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Project Name
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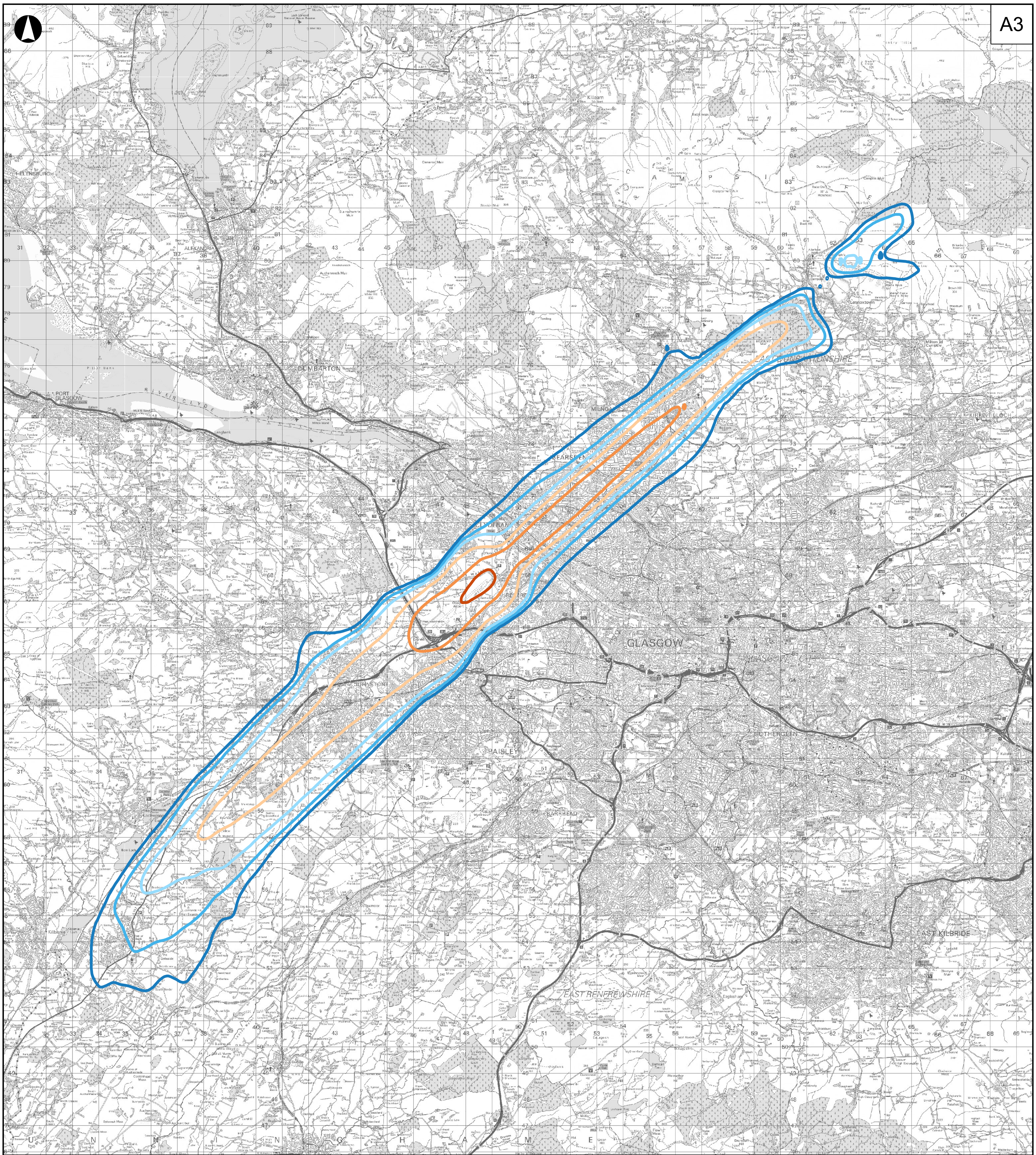
Drawing Title
Figure TA18: 2036 Without Airspace Change 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

5	
10	
20	
50	
100	
200	

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
Glasgow Airport Ltd

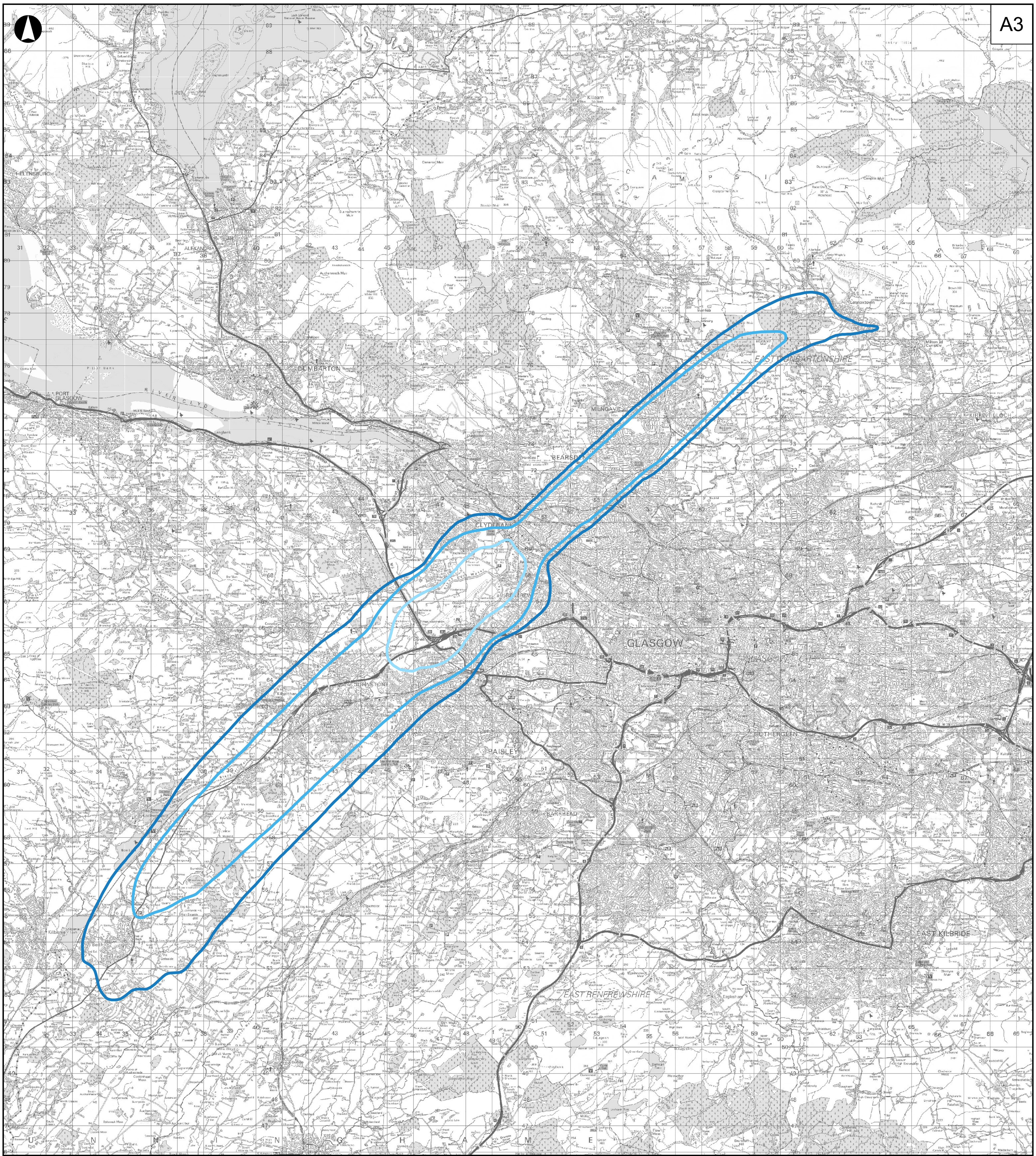
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA19: 2036 Without Airspace Change 92-day summer daytime N65

Scale at A3
1:150,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
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Project Name
Glasgow Airport FASI-N Airspace Change Proposal

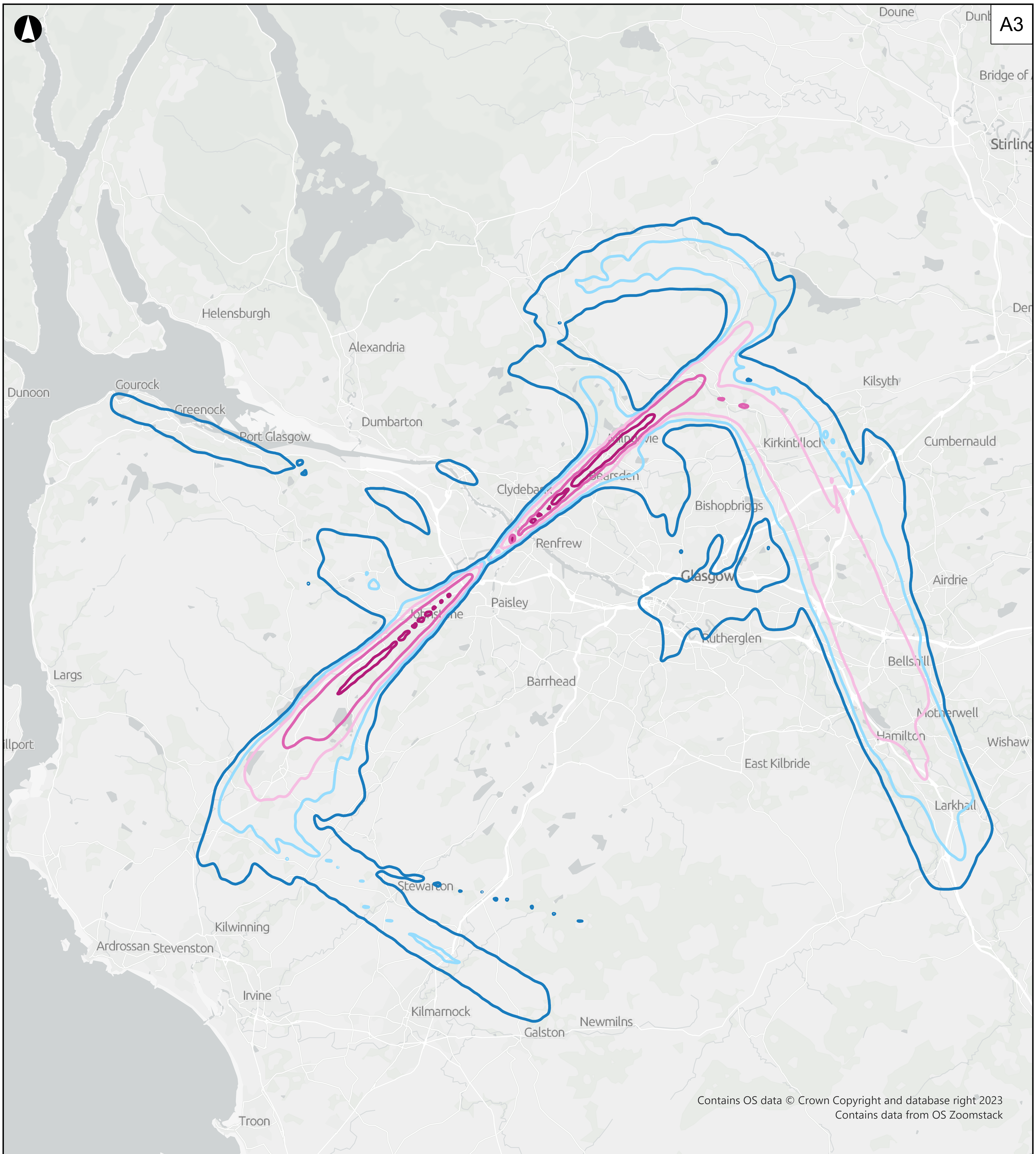
Drawing Title
Figure TA20: 2036 Without Airspace Change 92-day summer night-time N60

Scale at A3
1:150,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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Client
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Project Name
Glasgow Airport FASI-N Airspace Change Proposal

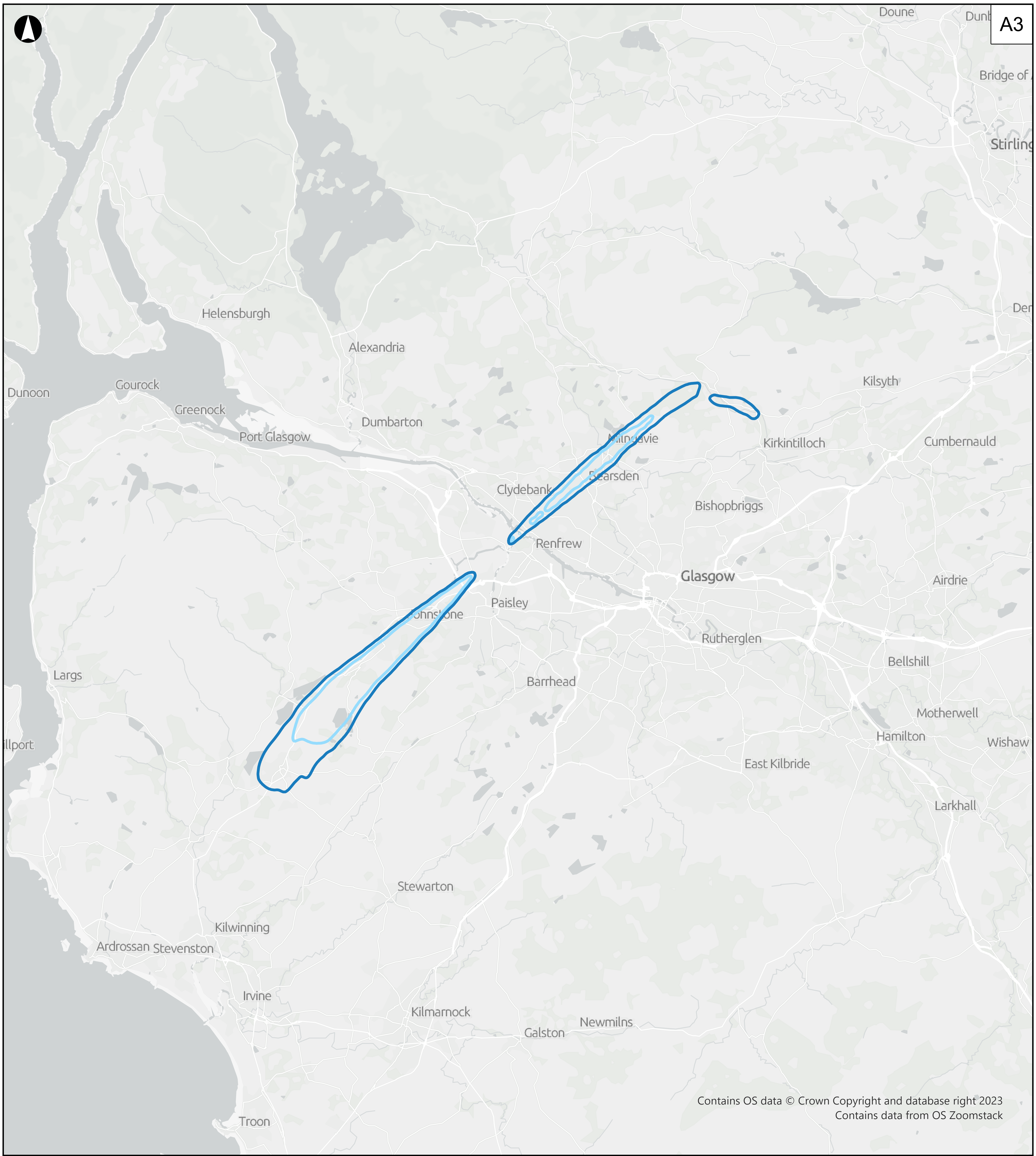
Drawing Title
Figure TA21: 2036 Without Airspace Change 92-day summer daytime Overflights

Scale at A3
1:250,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

5

10

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA22: 2036 Without Airspace Change 92-day summer night-time Overflights

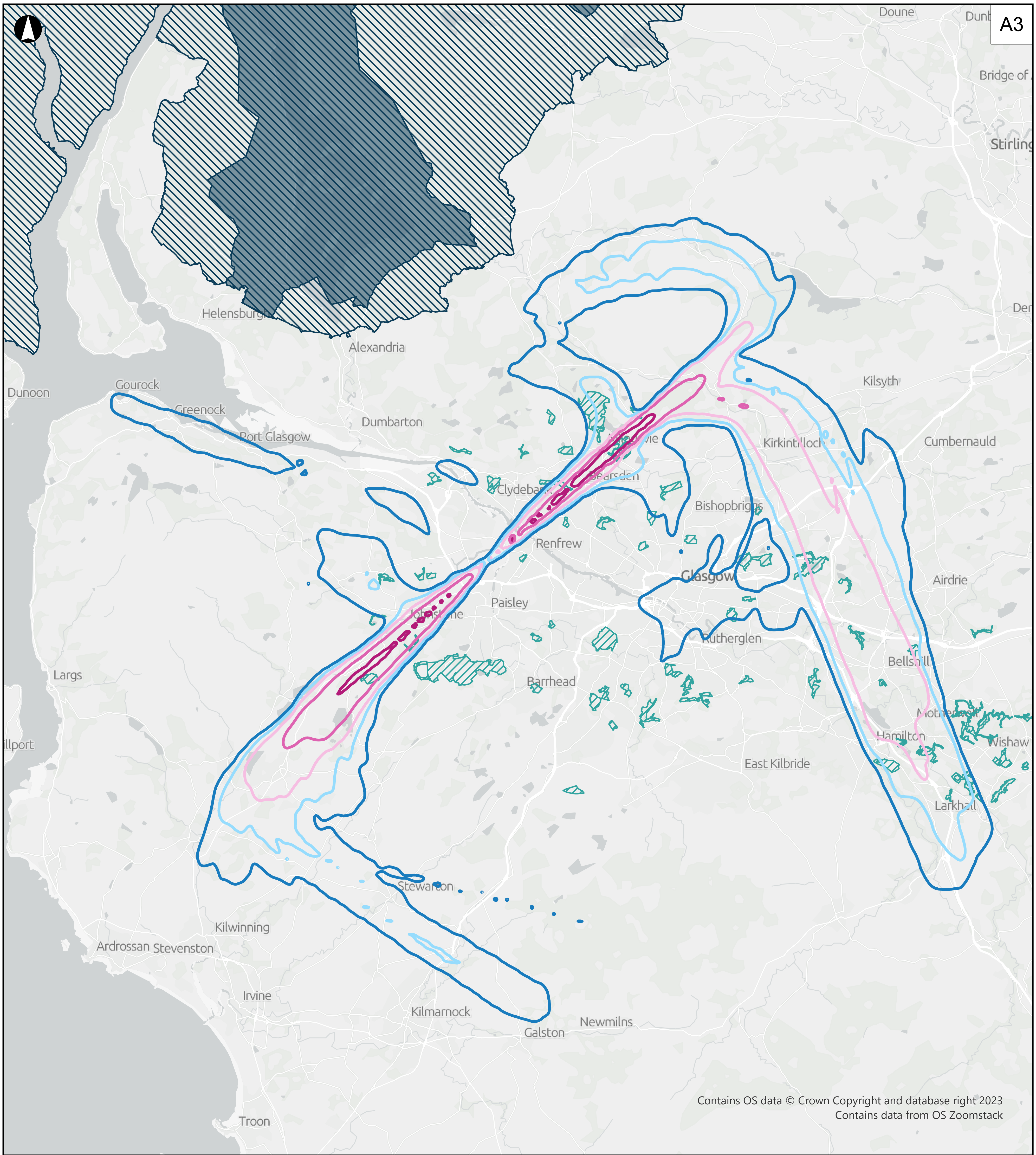
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

- 5
- 10
- 20
- 50
- 100
- Candidate Quiet Areas
- Loch Lomond Trossachs National Park
- Loch Lomond National Scenic Area

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

**Figure TA23:
2036 Without Airspace Change
92-day summer daytime
Overflights with tranquillity areas**

Scale at A3

1:250,000

Suitability

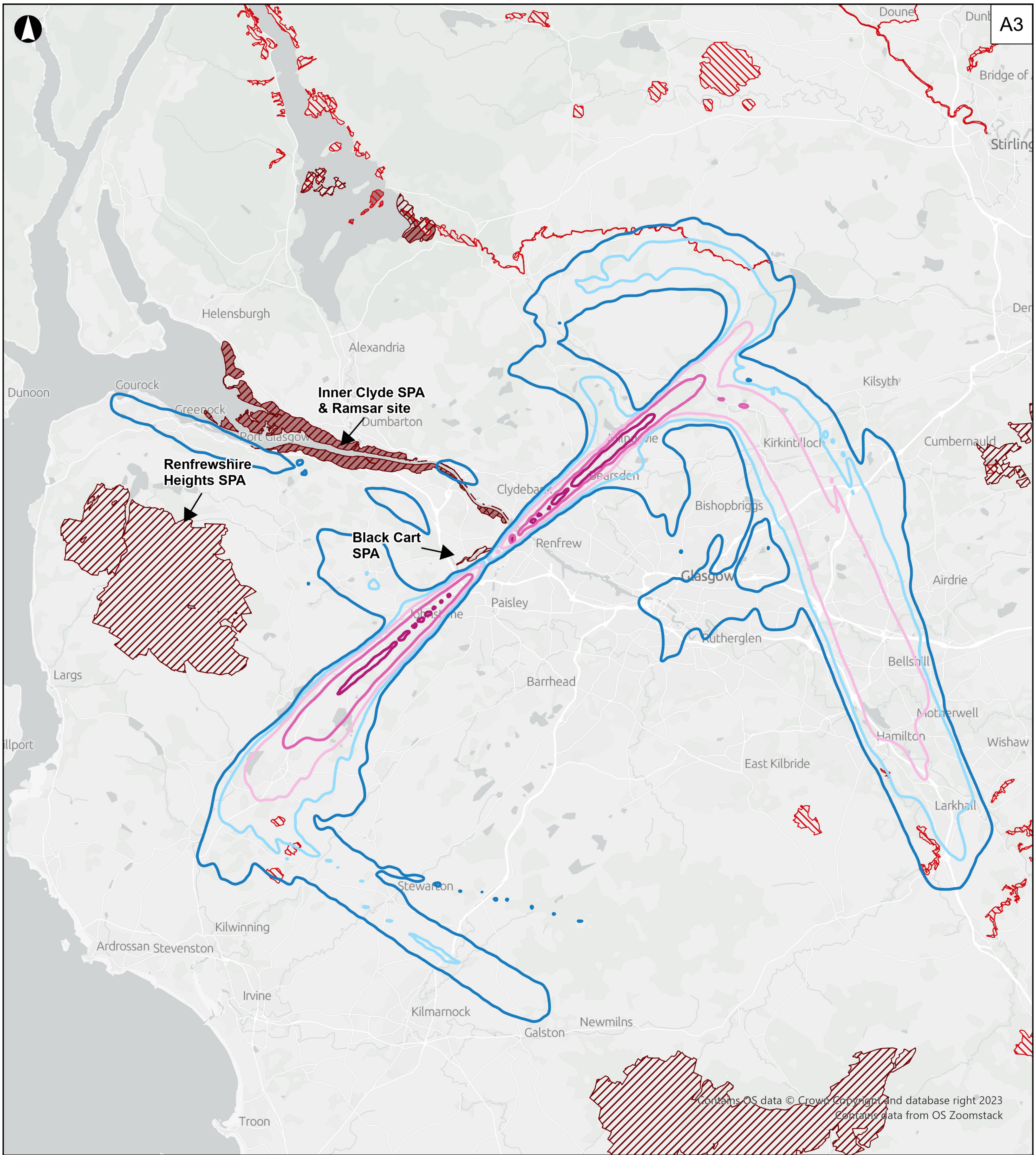
Issue

Project Number

268771-00

Rev

P01



Legend

- 5
- 10
- 20
- 50
- 100
- Special Protection Areas
- Special Areas of Conservation
- Ramsar sites

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Project Name

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Drawing Title

Figure TA24: 2036 Without Airspace Change 92-day summer daytime Overflights with European sites

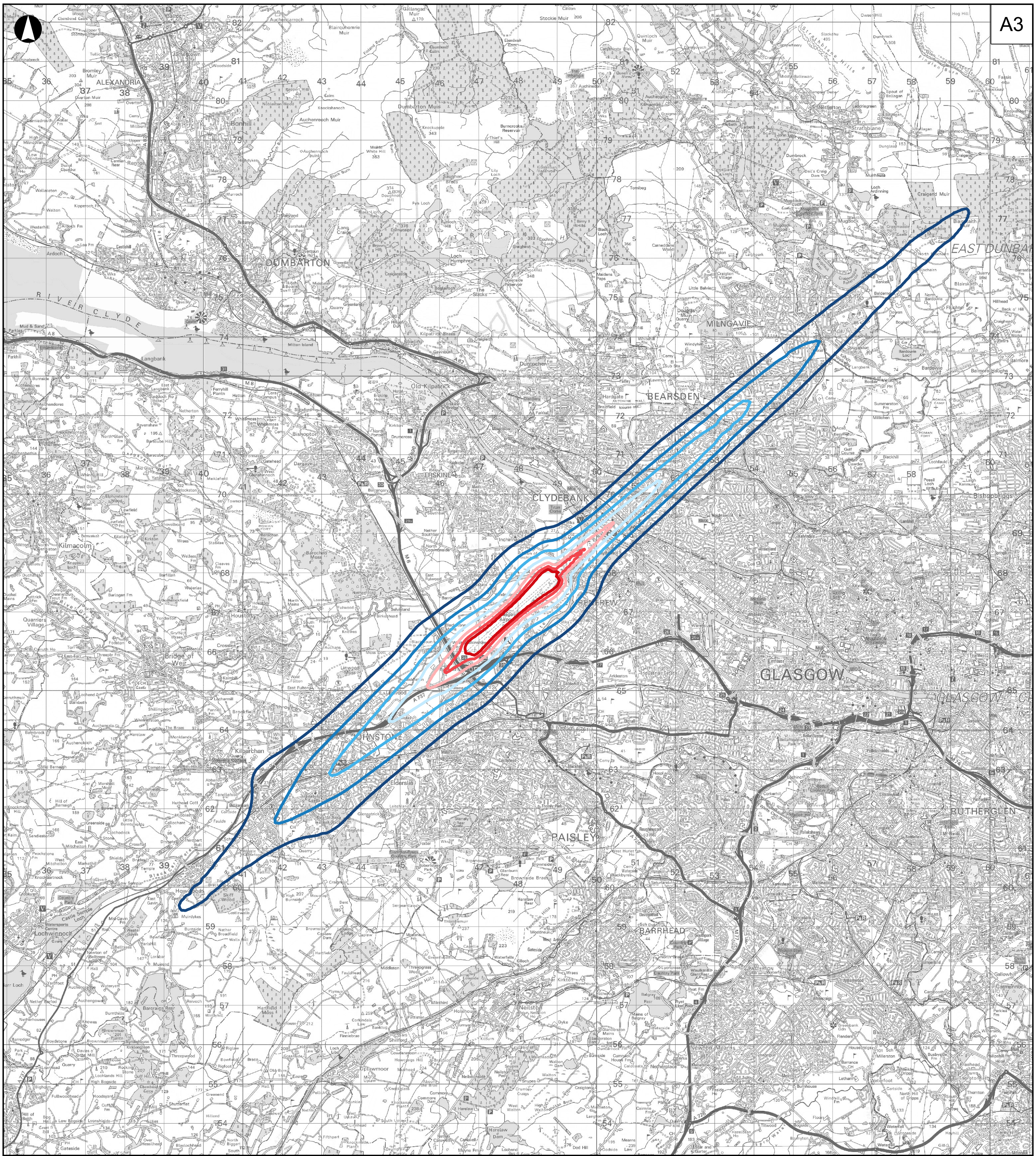
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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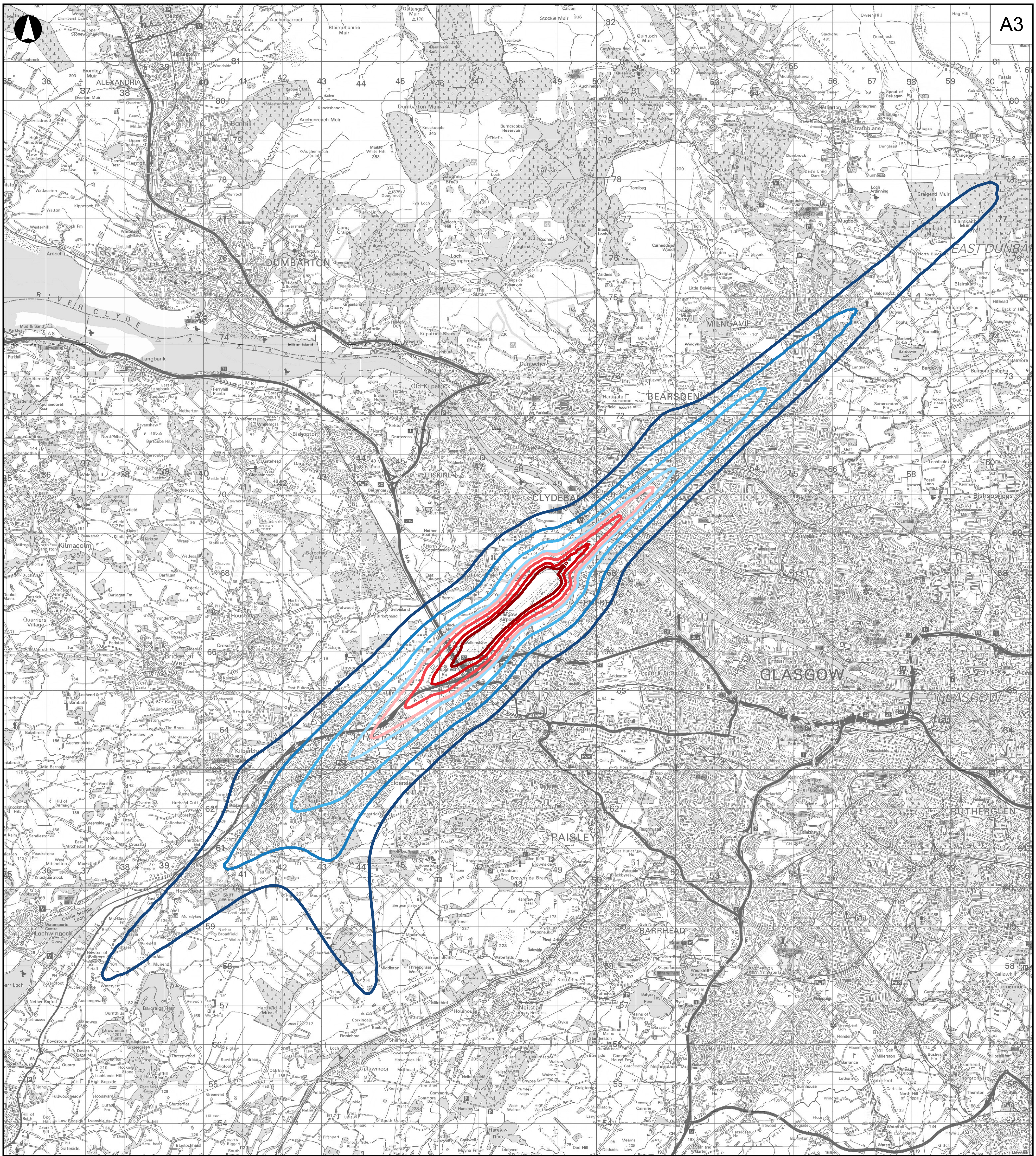
Drawing Title
Figure TA25: 2027 With Airspace Change Option 1 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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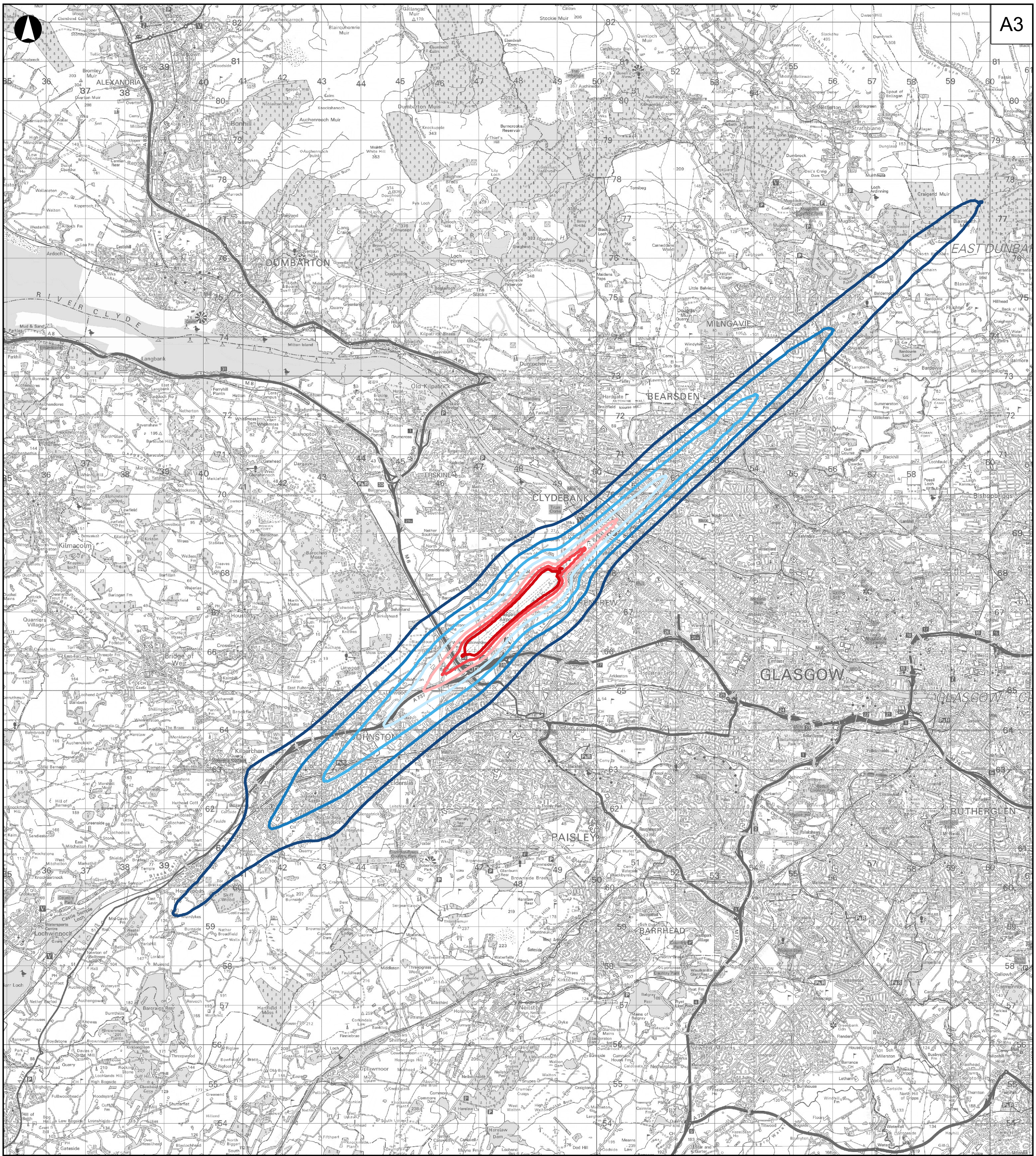
Drawing Title
Figure TA26: 2027 With Airspace Change Option 1 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 1.25 2.5 5

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Client

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Project Name

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Drawing Title

Figure TA27: 2036 With Airspace Change Option 1 92-day summer daytime $L_{Aeq,16h}$

Scale at A3

1:100,000

Suitability

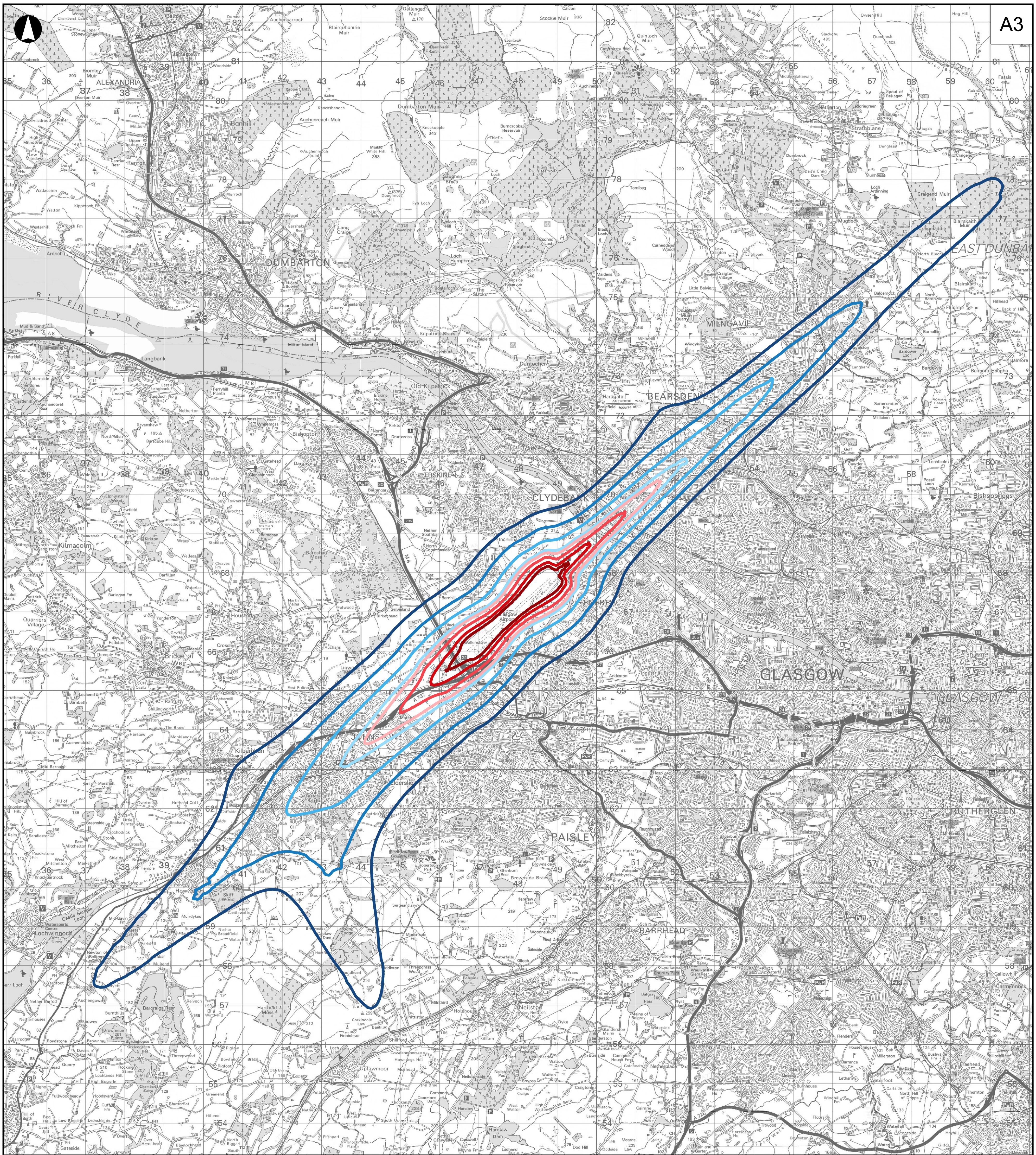
Issue

Project Number

268771-00

Rev

P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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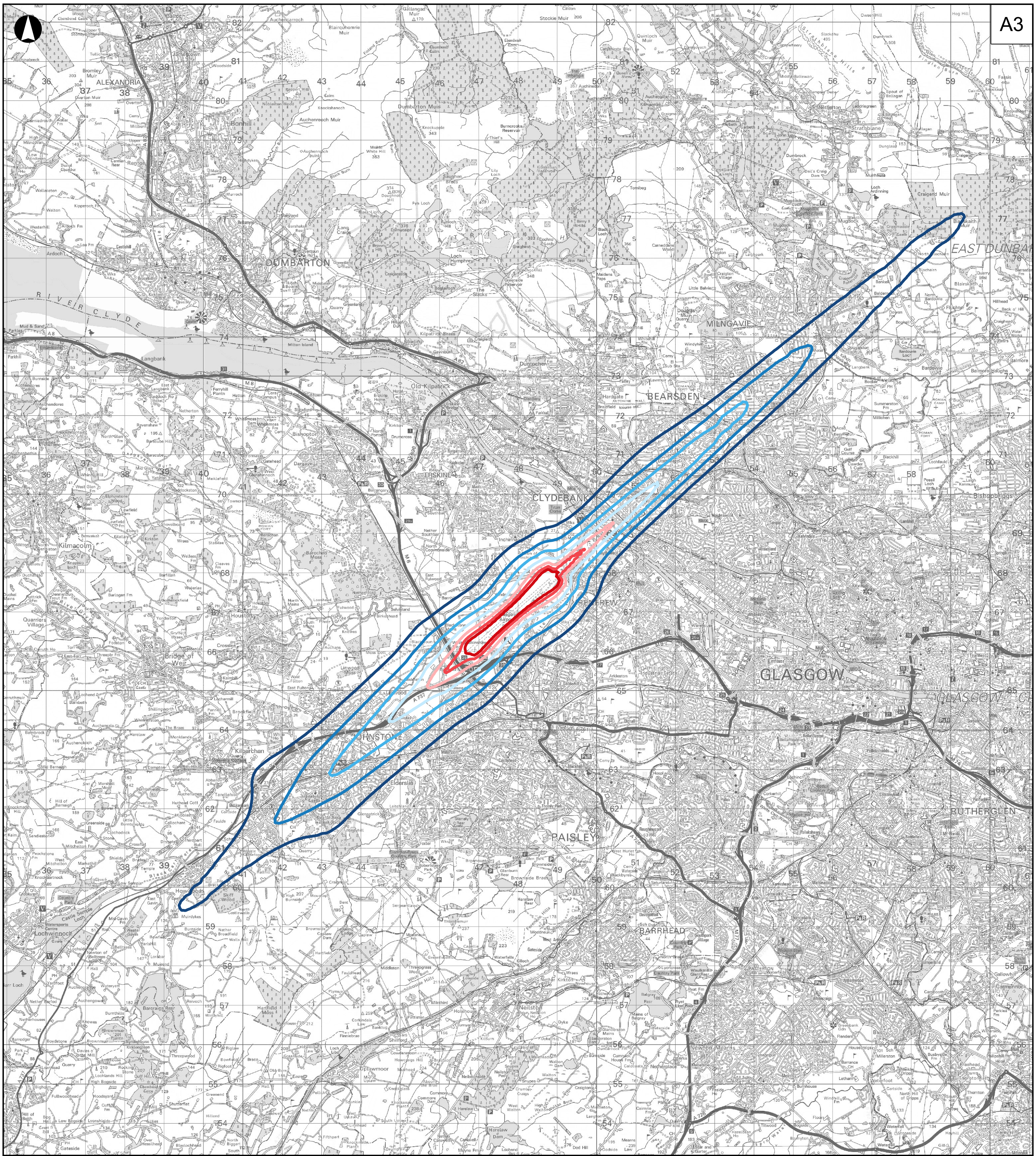
Drawing Title
Figure TA28: 2036 With Airspace Change Option 1 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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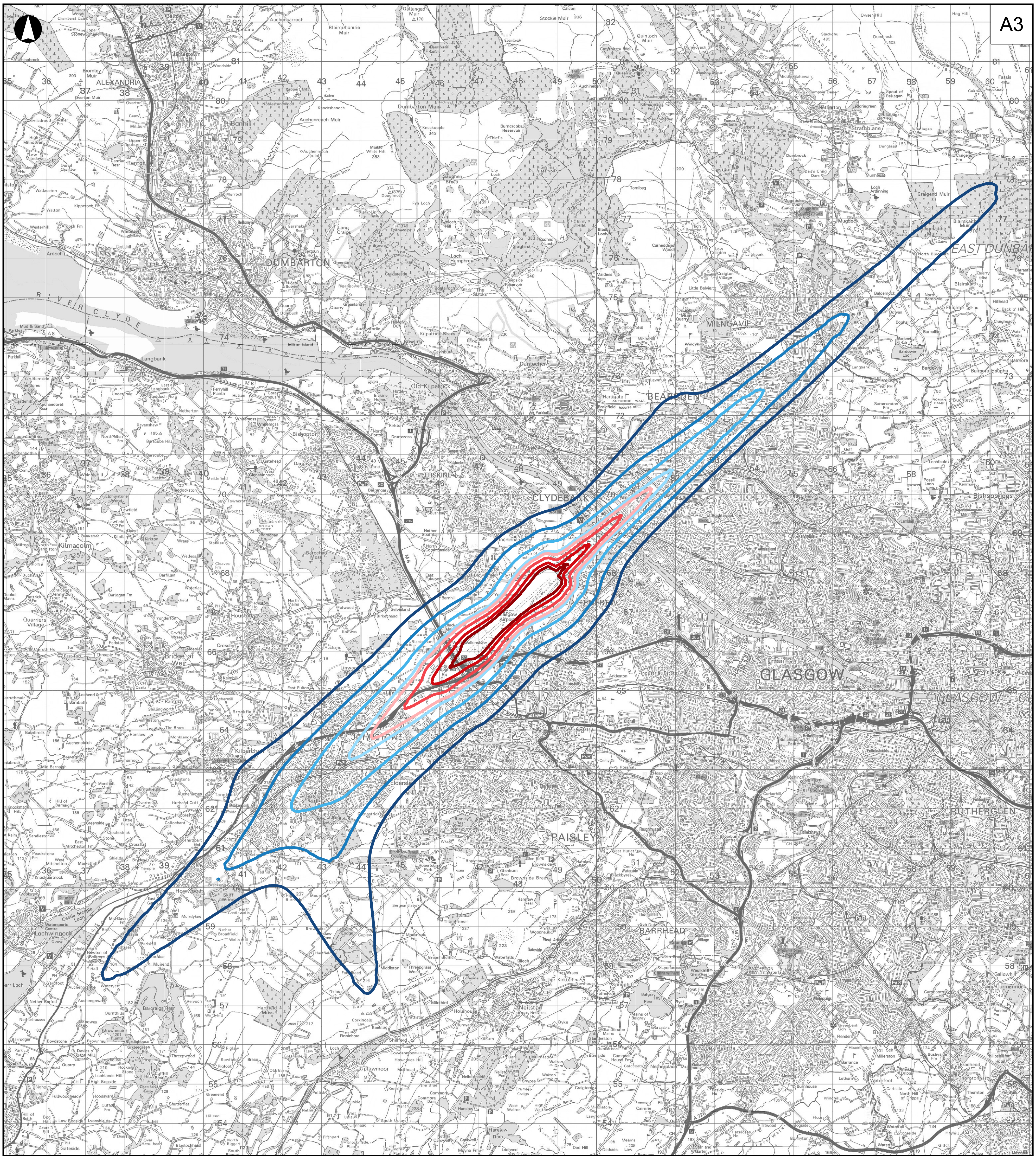
Drawing Title
Figure TA29: 2027 With Airspace Change Option 2 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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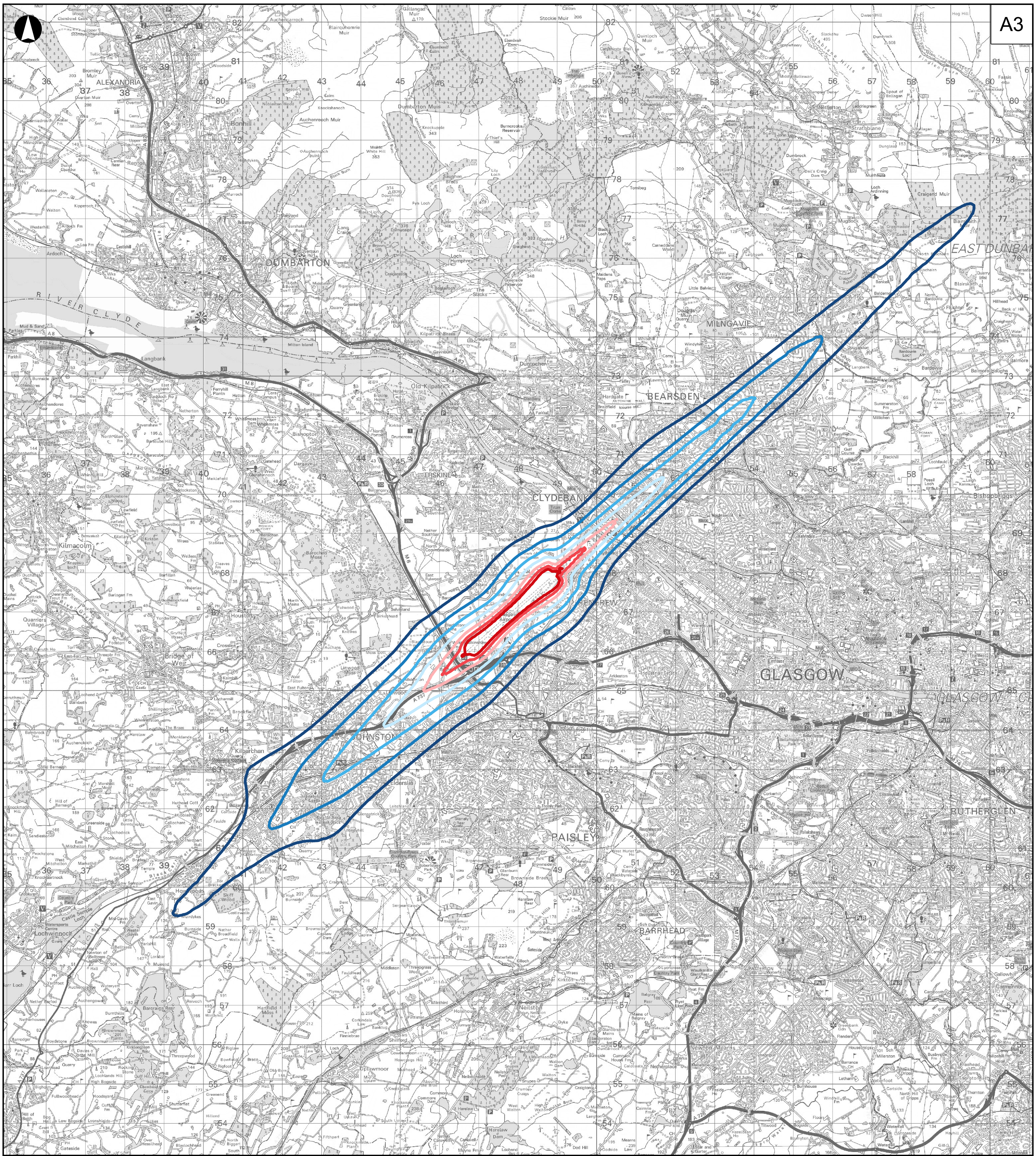
Drawing Title
Figure TA30: 2027 With Airspace Change Option 2 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Project Name
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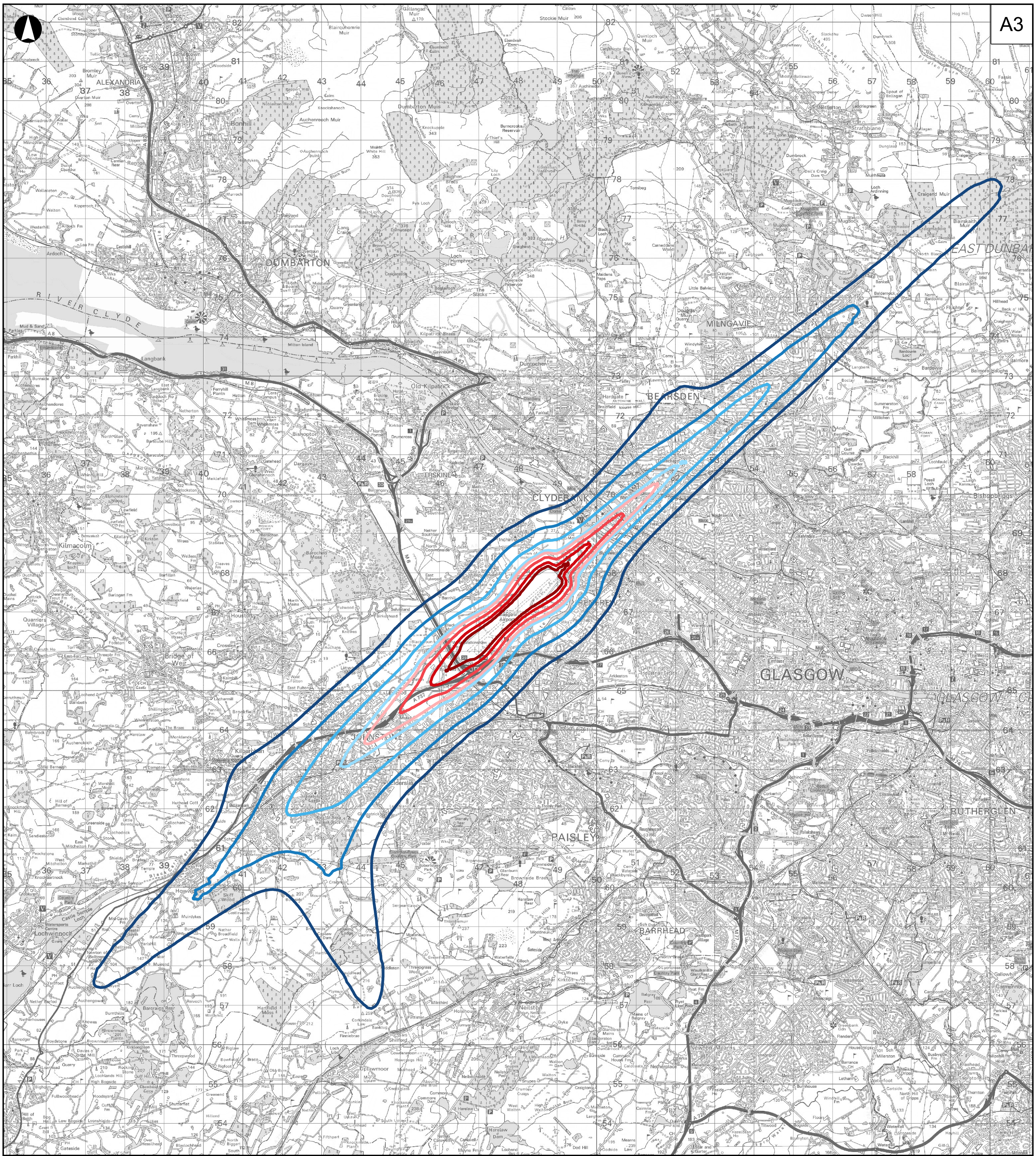
Drawing Title
Figure TA31: 2036 With Airspace Change Option 2 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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Drawing Title
Figure TA32: 2036 With Airspace Change Option 2 92-day summer night-time $L_{Aeq,8h}$

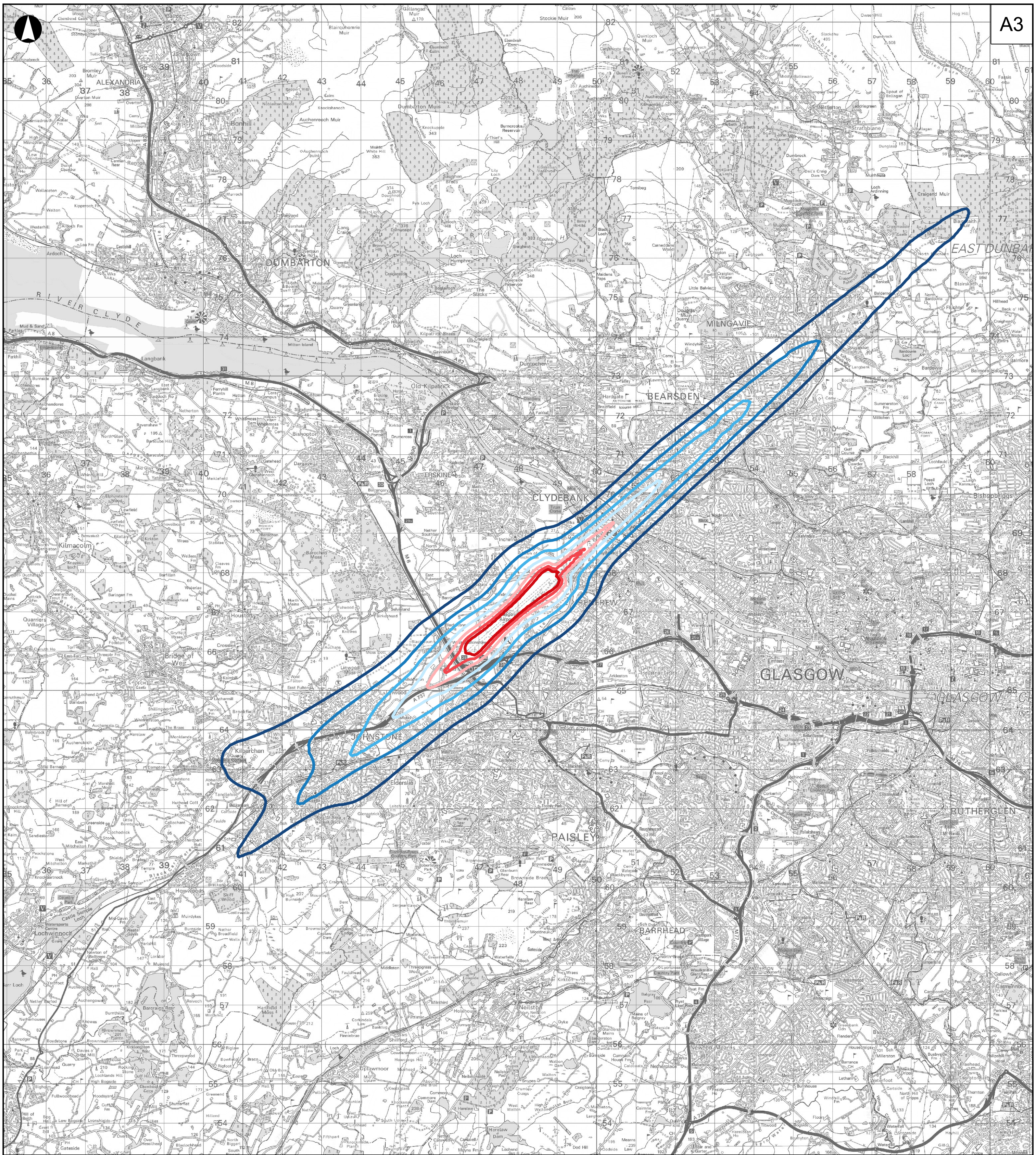
Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01

A3



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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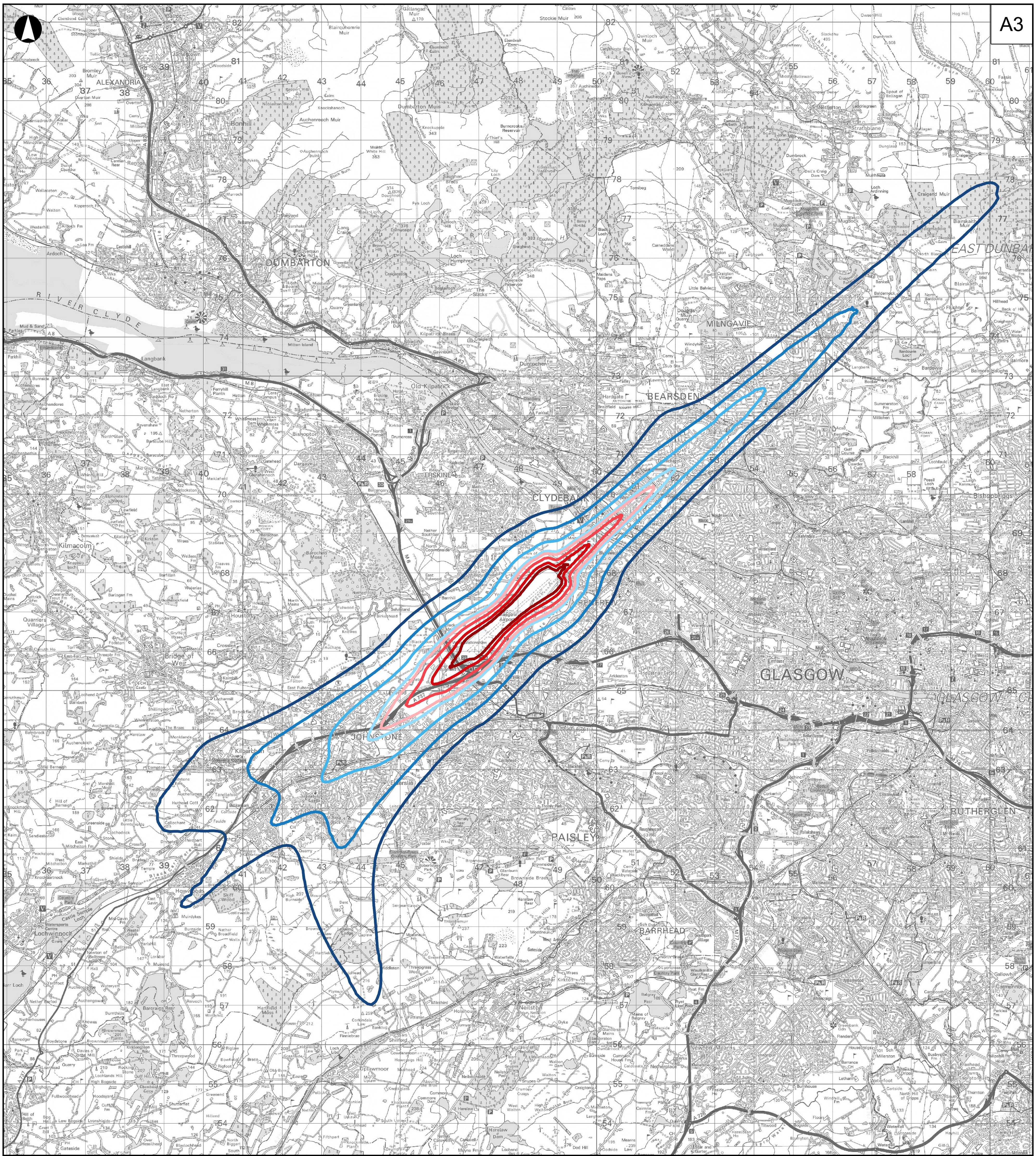
Drawing Title
Figure TA33: 2027 With Airspace Change Option 3 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Project Name
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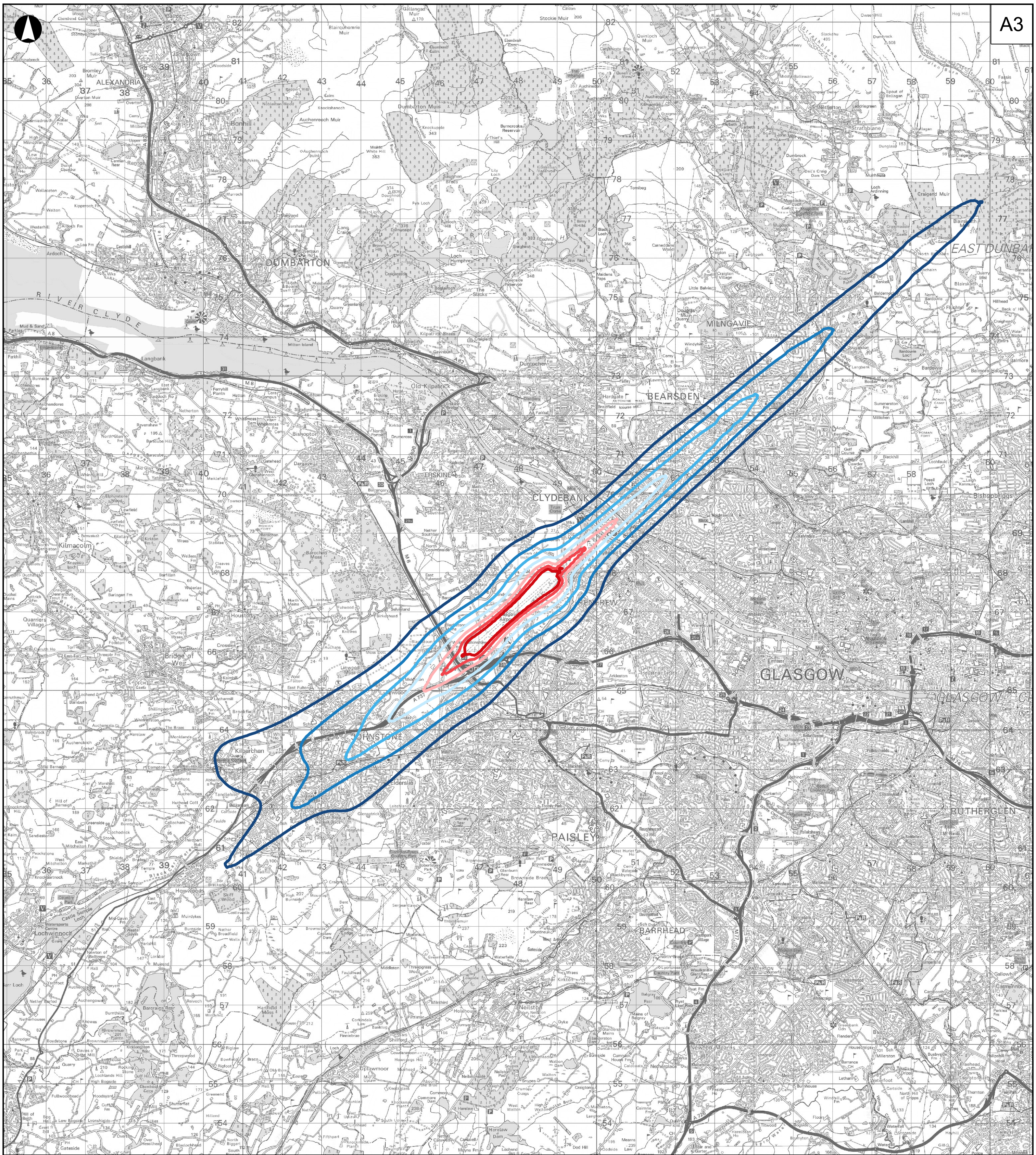
Drawing Title
Figure TA34: 2027 With Airspace Change Option 3 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Project Name
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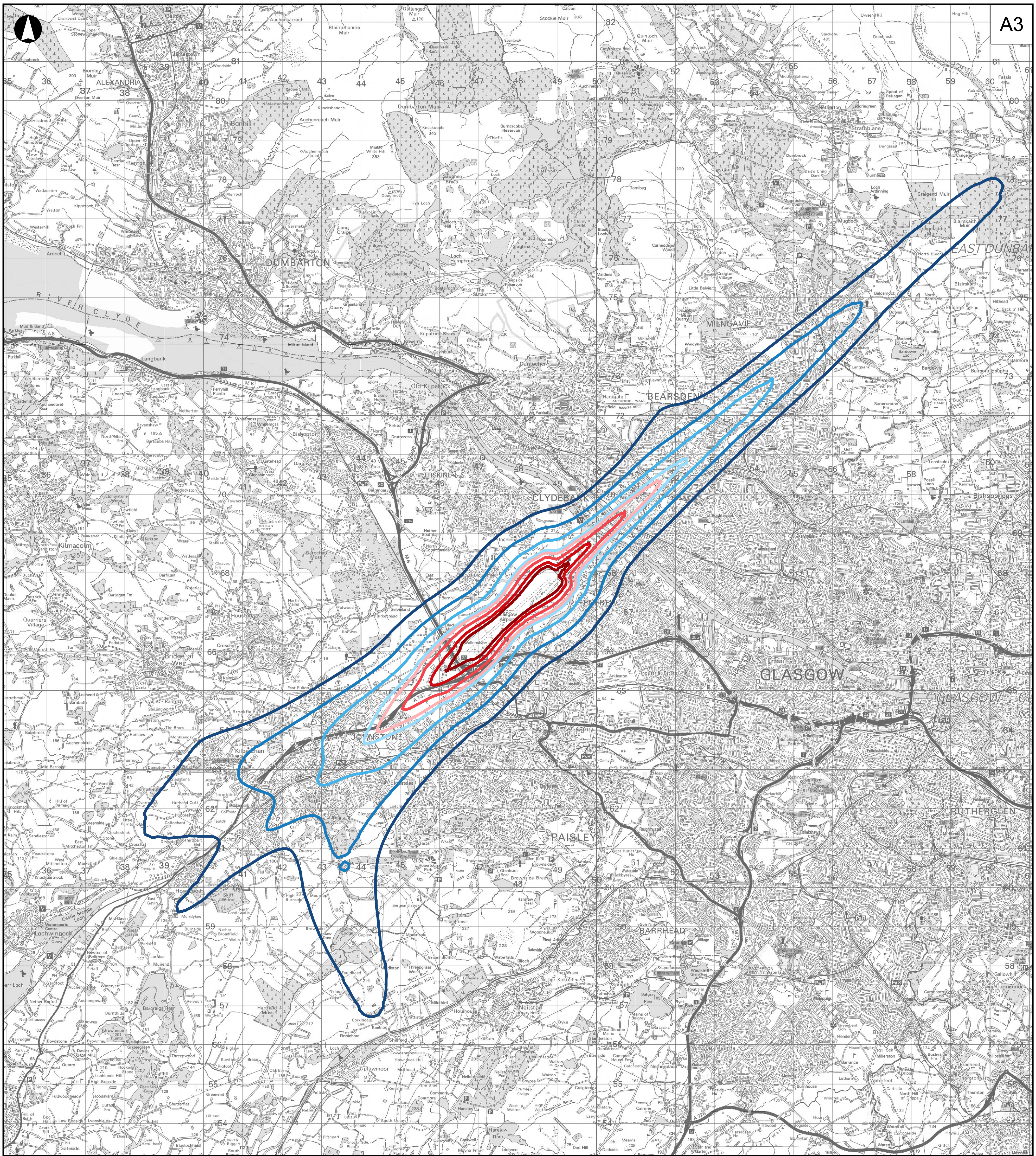
Drawing Title
**Figure TA35:
2036 With Airspace Change Option 3
92-day summer daytime $L_{Aeq,16h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Project Name
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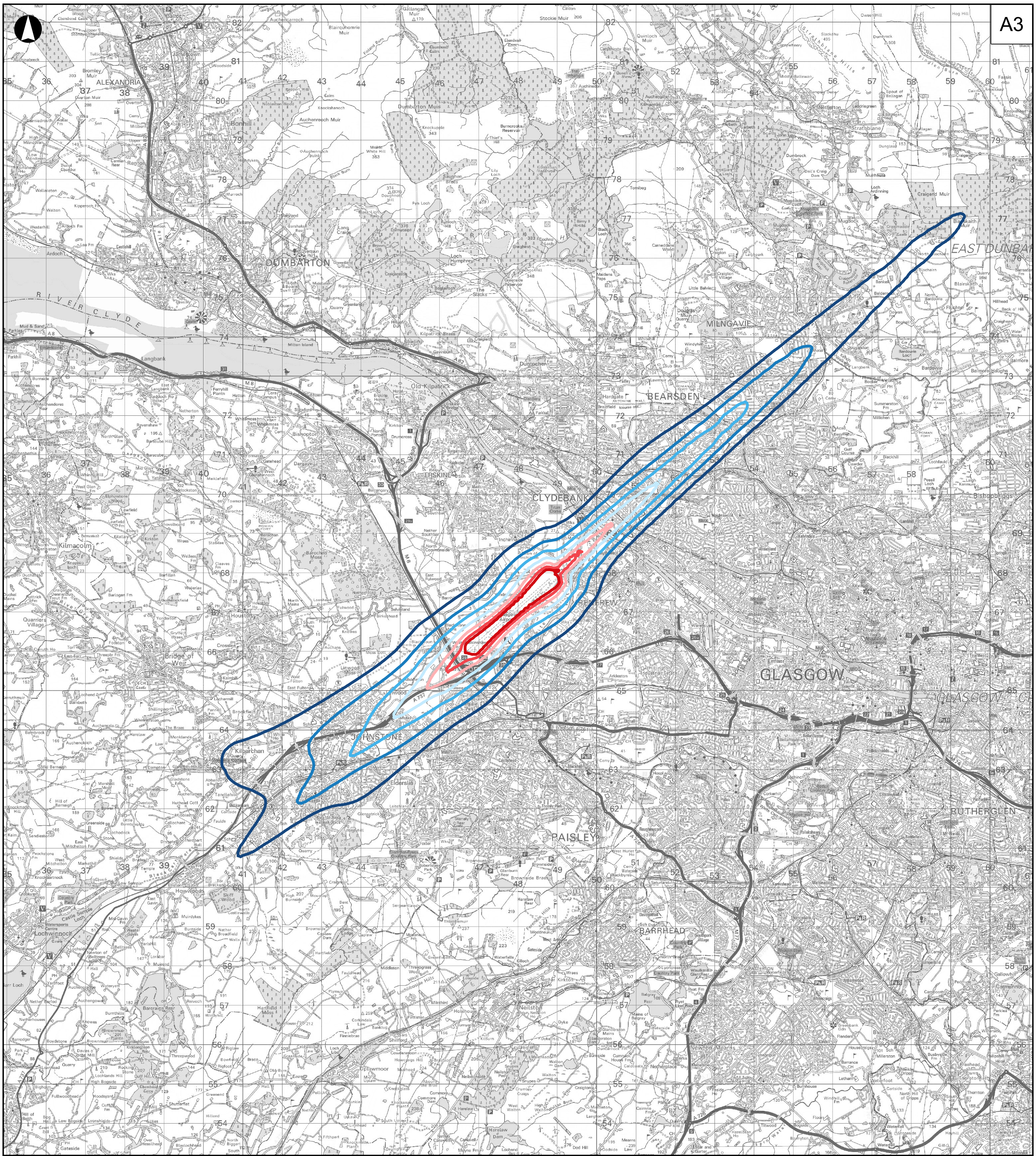
Drawing Title
**Figure TA36:
2036 With Airspace Change Option 3
92-day summer night-time $L_{Aeq,8h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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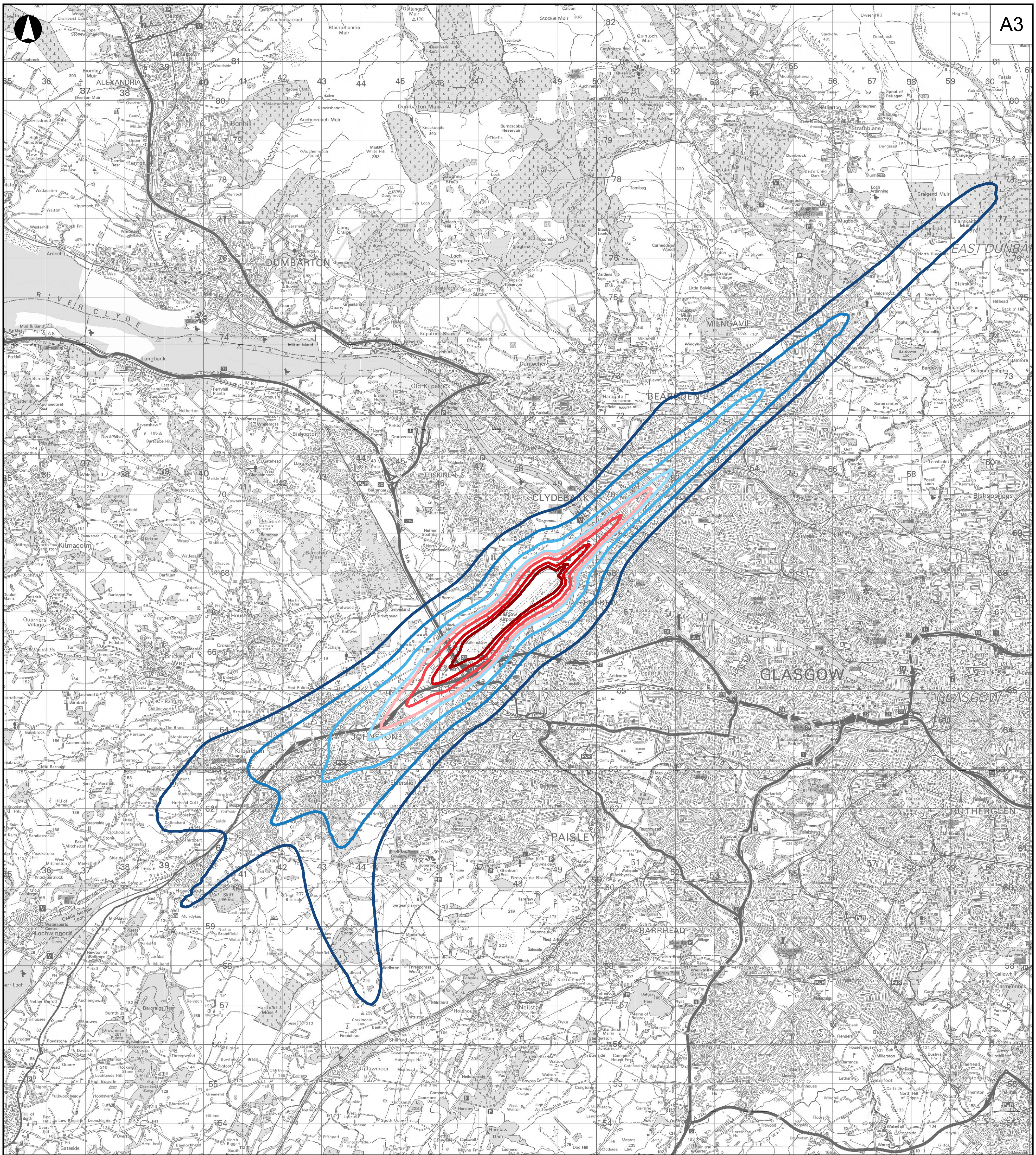
Drawing Title
Figure TA37: 2027 With Airspace Change Option 4 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Project Name
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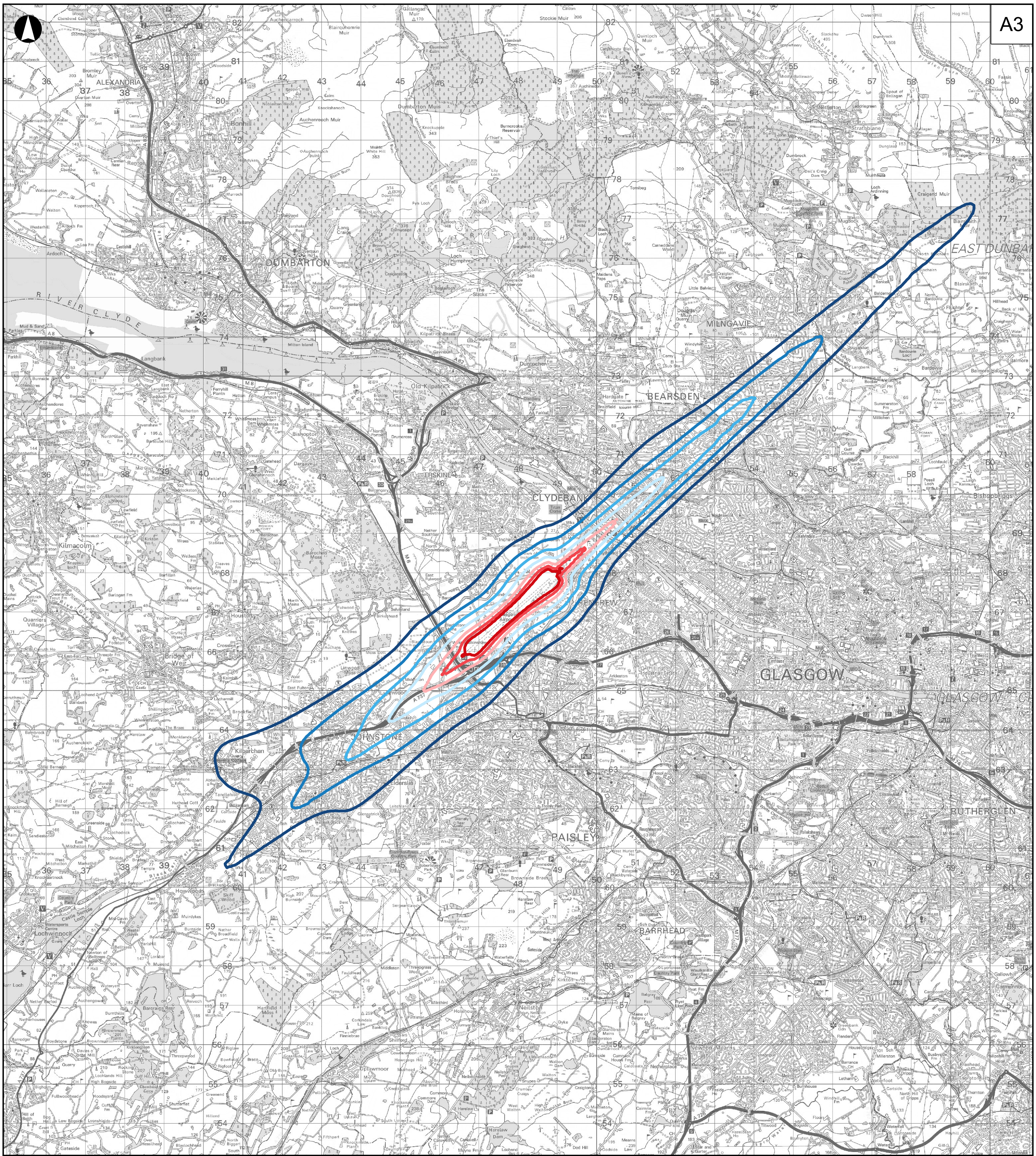
Drawing Title
Figure TA38: 2027 With Airspace Change Option 4 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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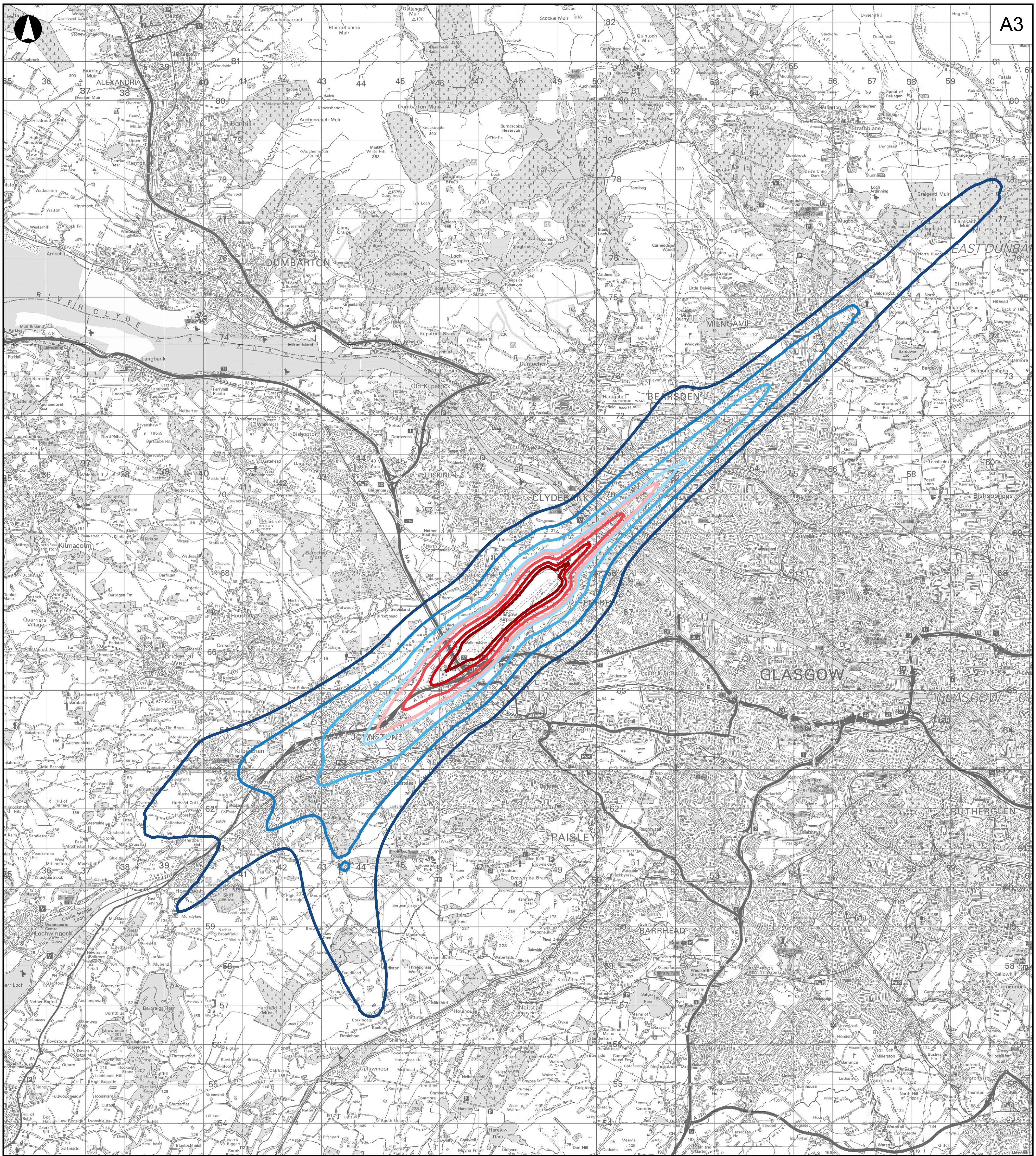
Drawing Title
Figure TA39: 2036 With Airspace Change Option 4 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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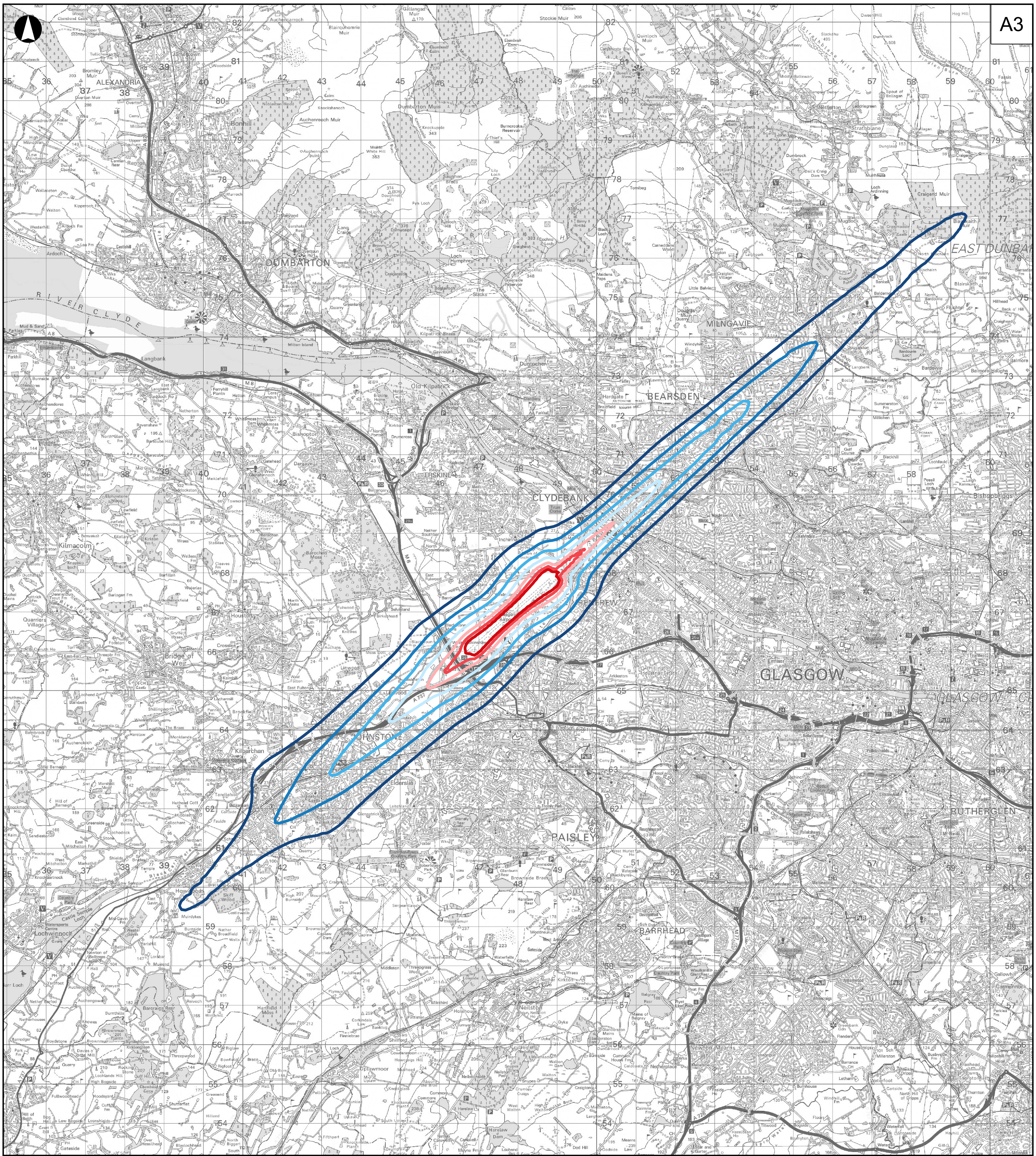
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA40: 2036 With Airspace Change Option 4 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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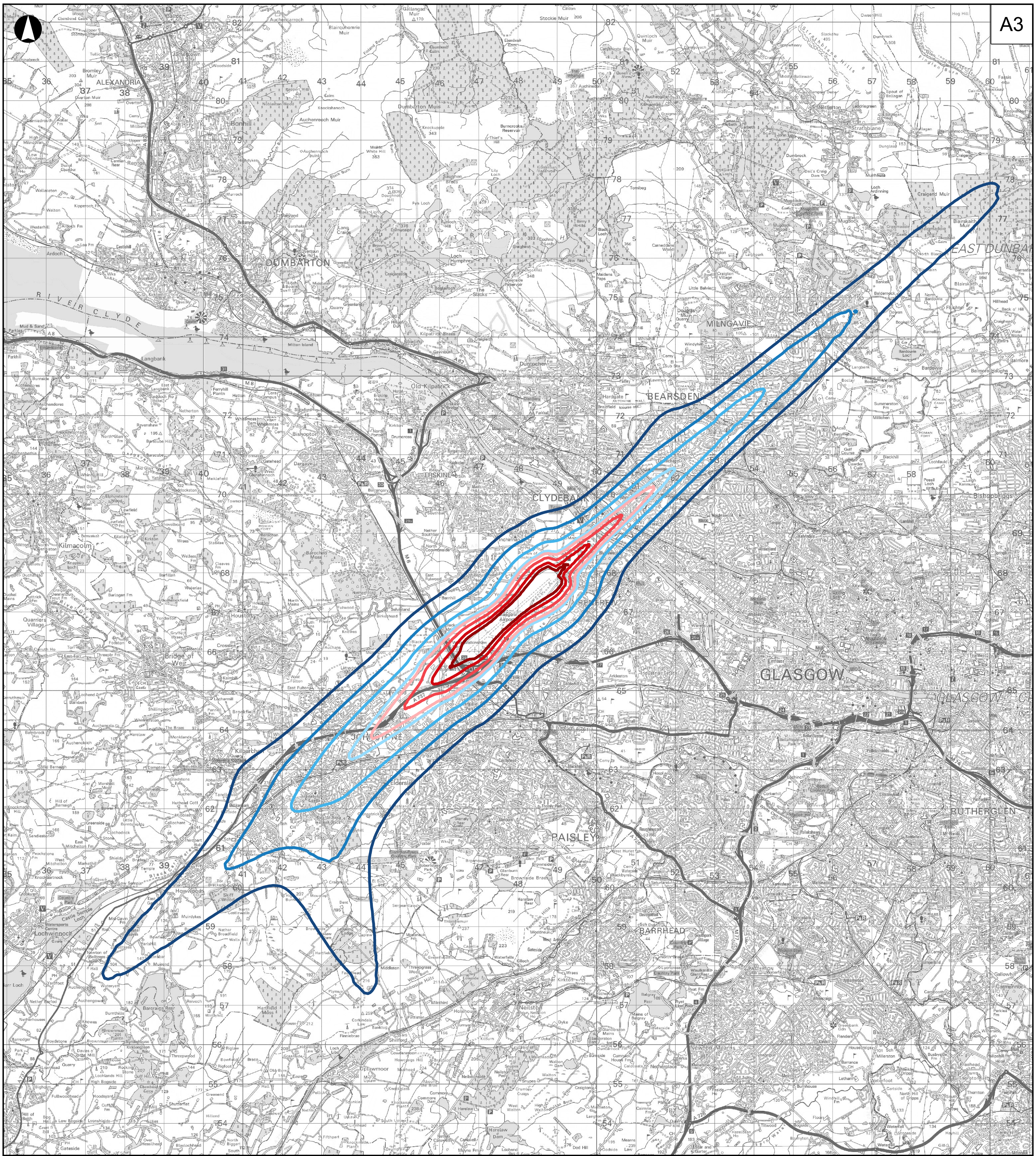
Drawing Title
**Figure TA41:
2027 With Airspace Change Option 5
92-day summer daytime $L_{Aeq,16h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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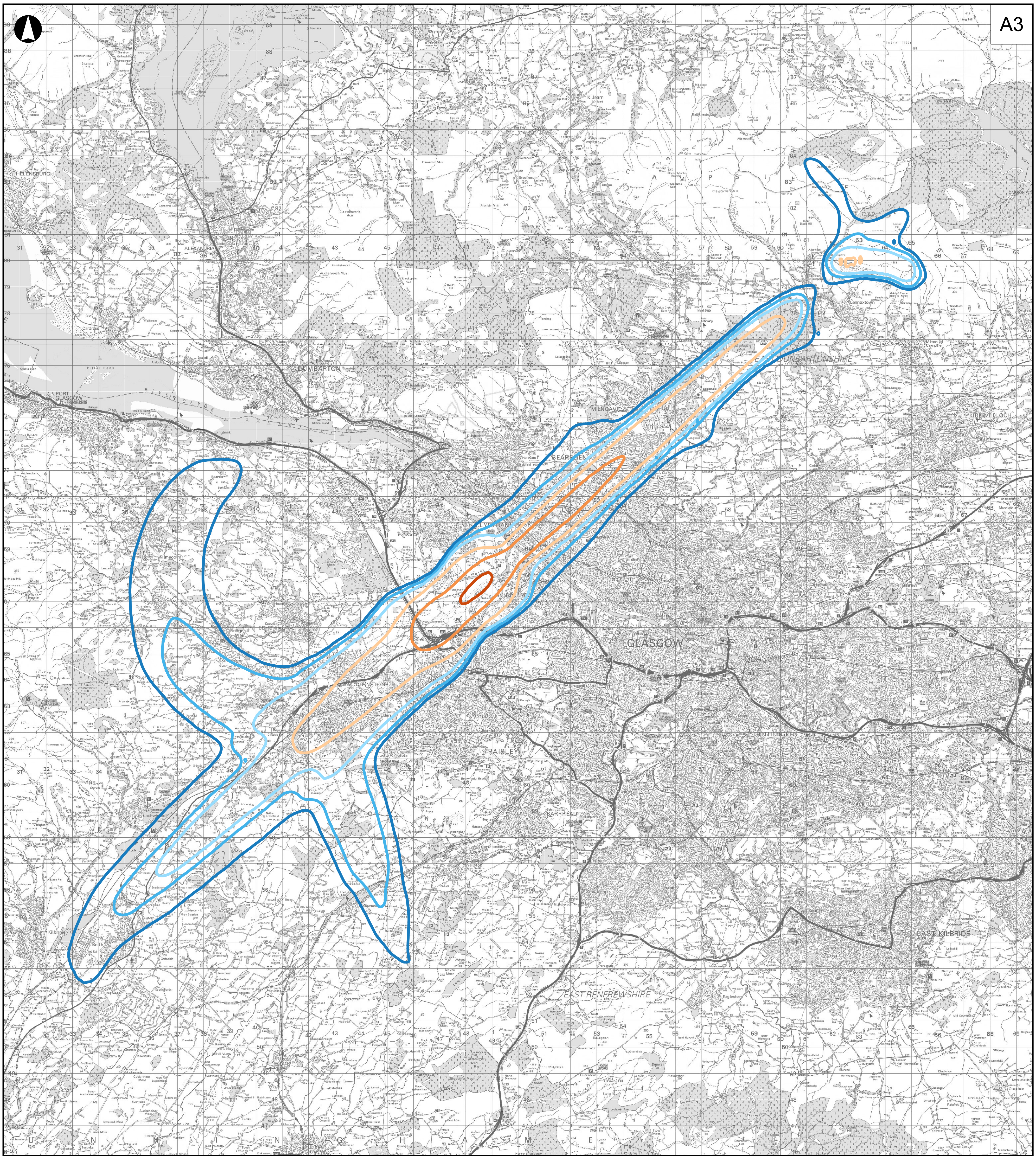
Drawing Title
**Figure TA42:
2027 With Airspace Change Option 5
92-day summer night-time $L_{Aeq,8h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50
- 100
- 200

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
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Project Name
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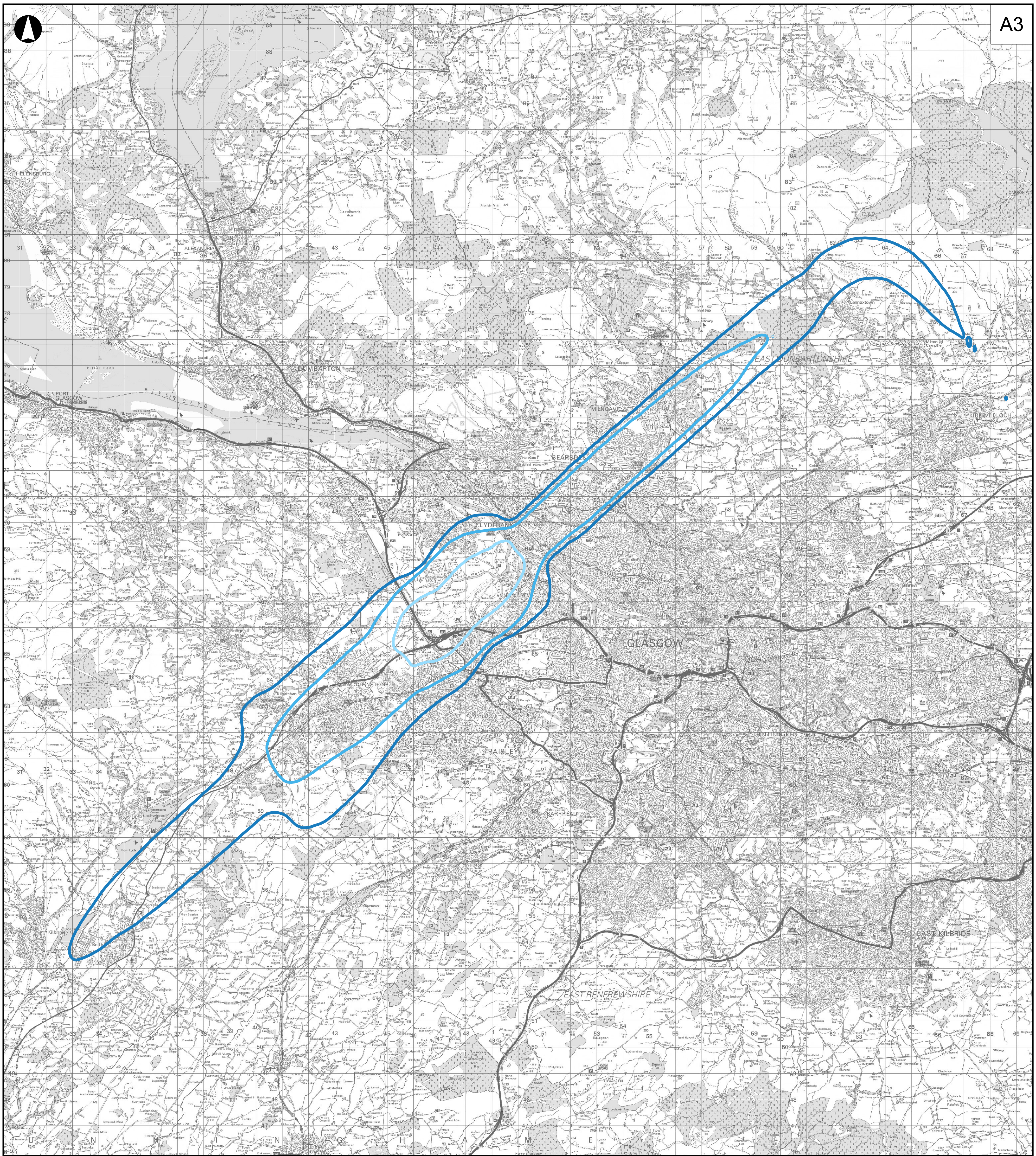
Drawing Title
**Figure TA43:
2027 With Airspace Change Option 5
92-day summer daytime N65**

Scale at A3
1:150,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 5
- 10
- 20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
Glasgow Airport Ltd

Project Name
Glasgow Airport FASI-N Airspace Change Proposal

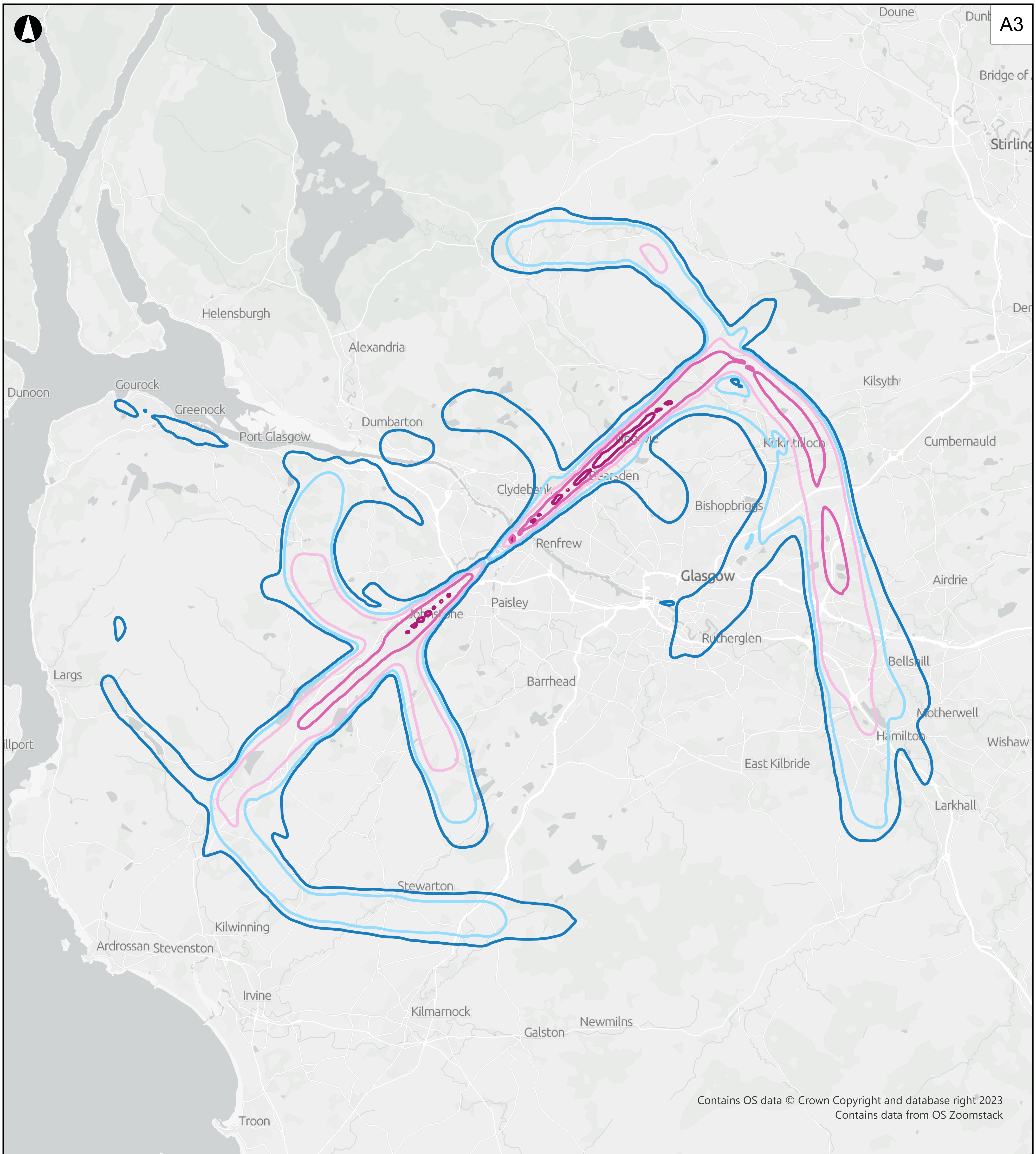
Drawing Title
**Figure TA44:
2027 With Airspace Change Option 5
92-day summer night-time N60**

Scale at A3
1:150,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA45: 2027 With Airspace Change Option 5 92-day summer daytime Overflights

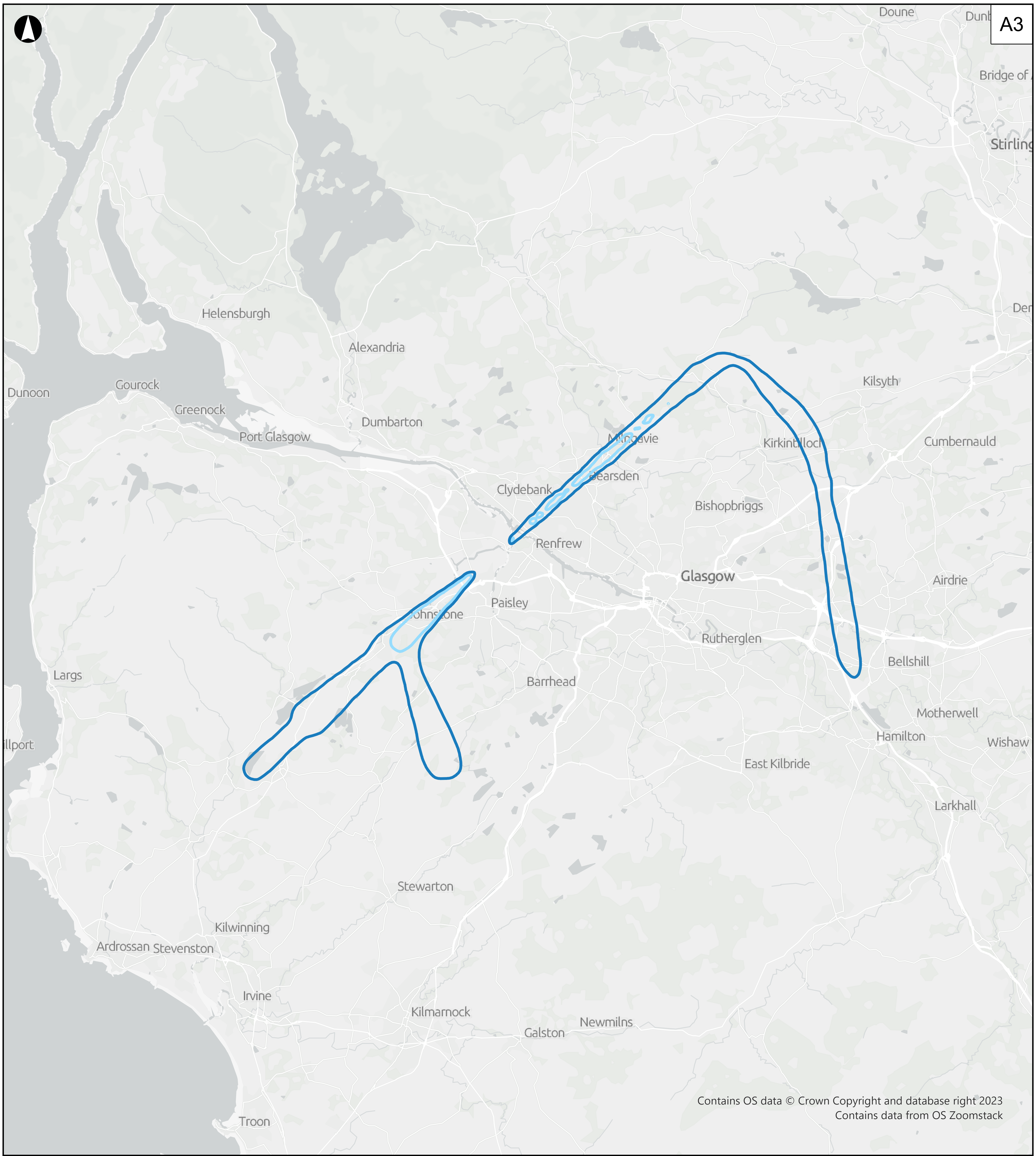
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA46: 2027 With Airspace Change Option 5 92-day summer night-time Overflights

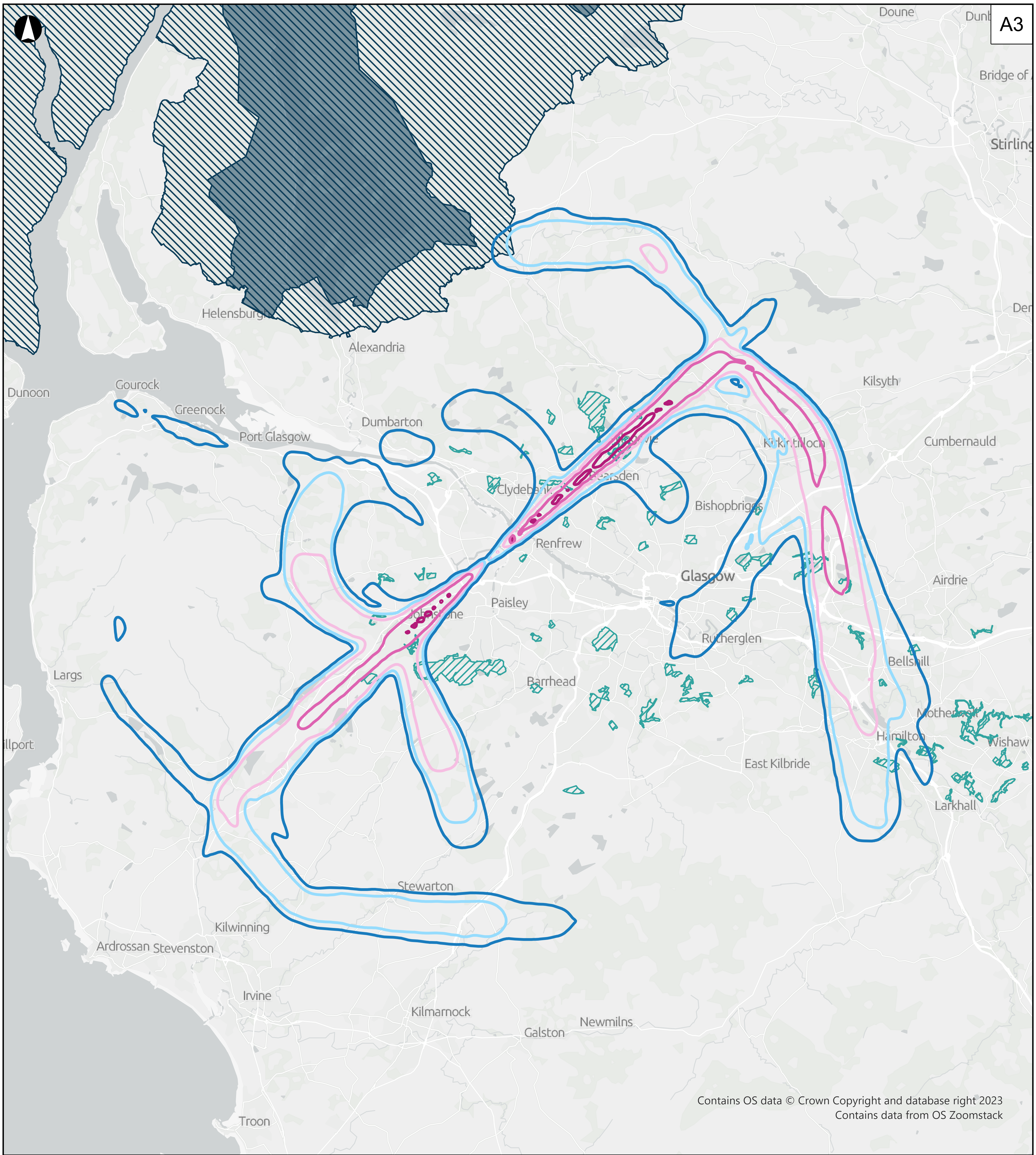
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20
- 50
- 100
- Candidate Quiet Areas
- Loch Lomond Trossachs National Park
- Loch Lomond National Scenic Area

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA47: 2027 With Airspace Change Option 5 92-day summer daytime Overflights with tranquillity areas

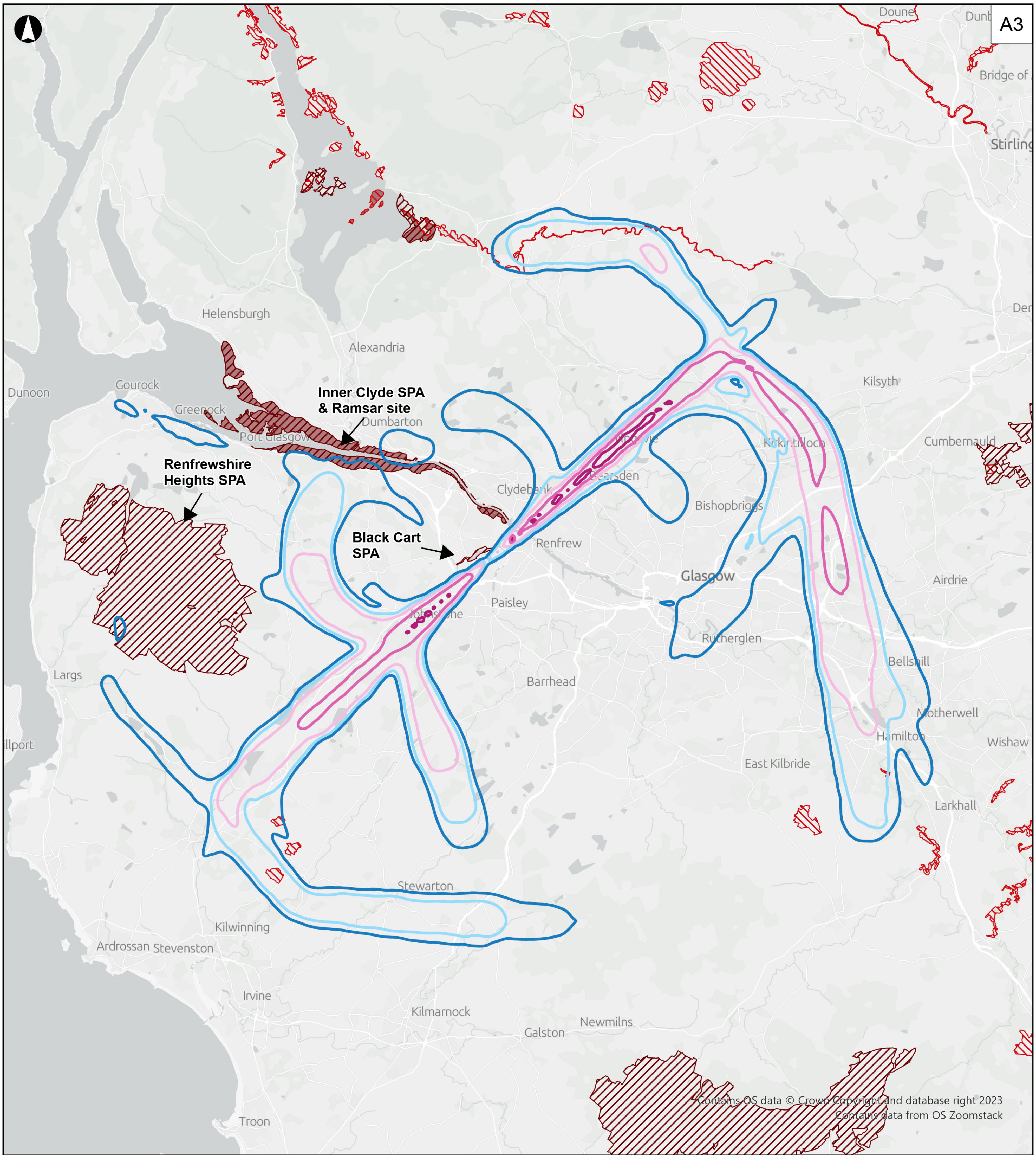
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

- 5
- 10
- 20
- 50
- 100
- Special Protection Areas
- Special Areas of Conservation
- Ramsar sites

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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Client
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Project Name
Glasgow Airport FASI-N Airspace Change Proposal

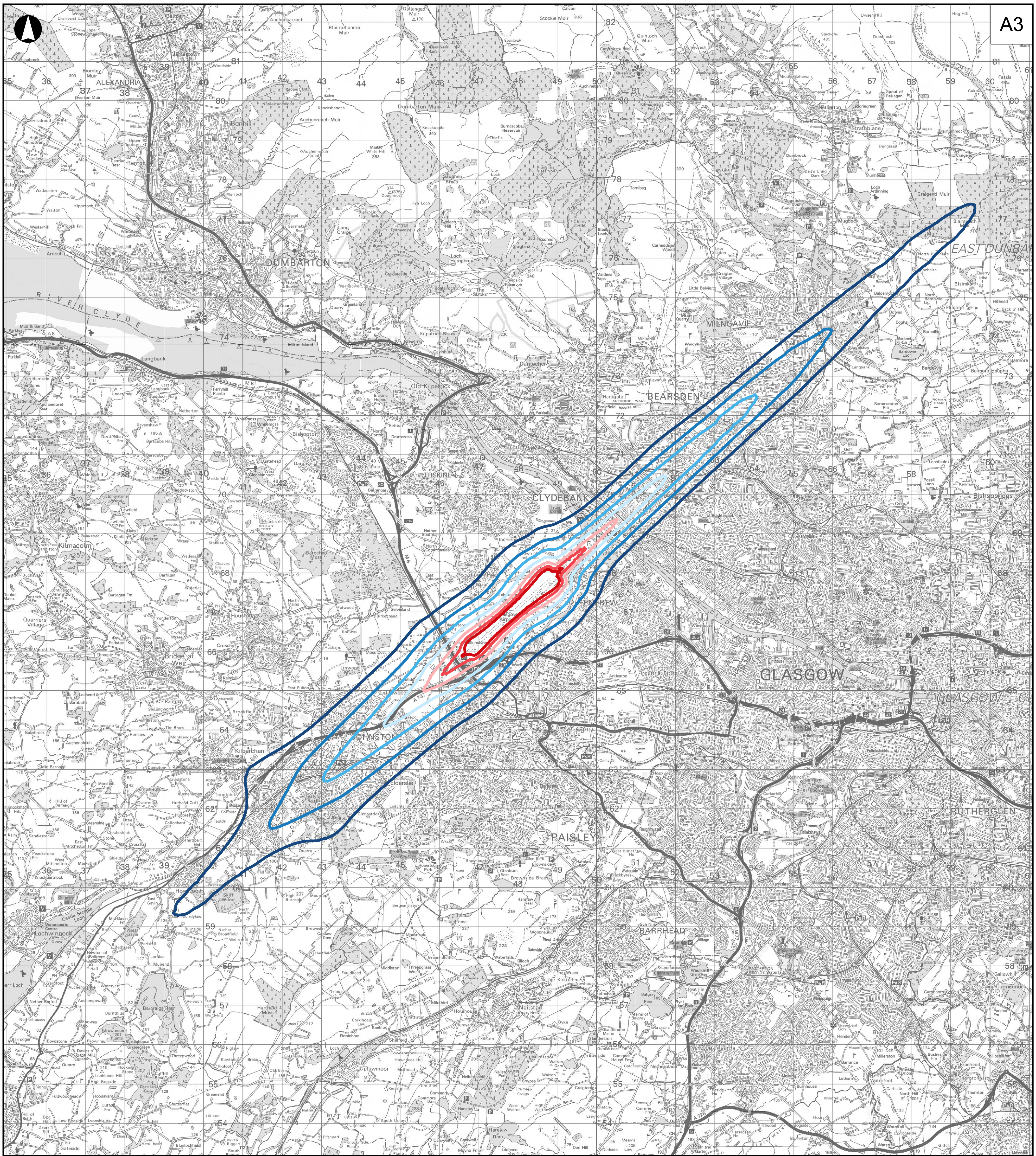
Drawing Title
Figure TA48: 2027 With Airspace Change Option 5 92-day summer daytime Overflights with European sites

Scale at A3
1:250,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 1.25 2.5 5

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA49: 2036 With Airspace Change Option 5 92-day summer daytime $L_{Aeq,16h}$

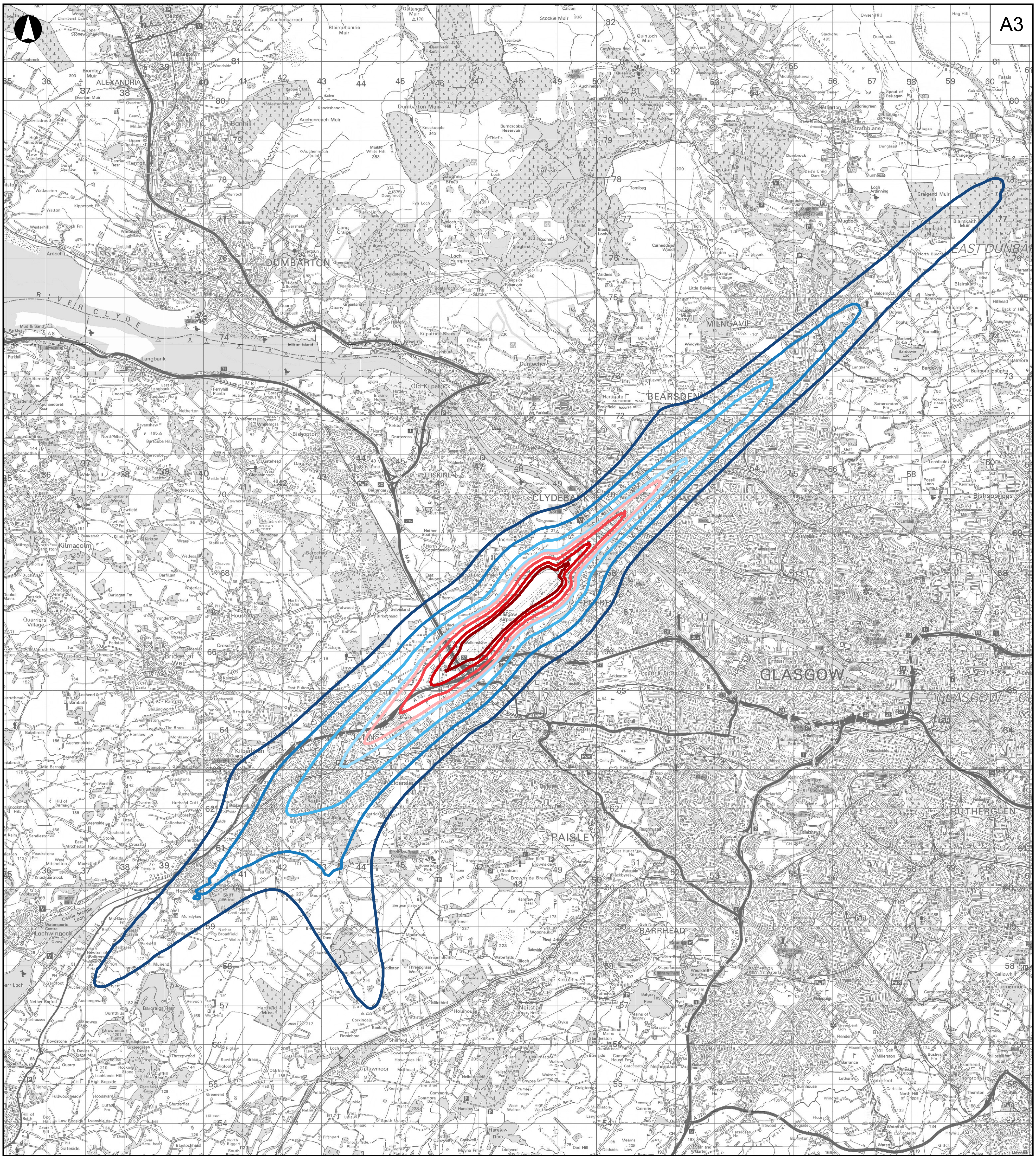
Scale at A3

1:100,000

Suitability

Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
Glasgow Airport FASI-N Airspace Change Proposal

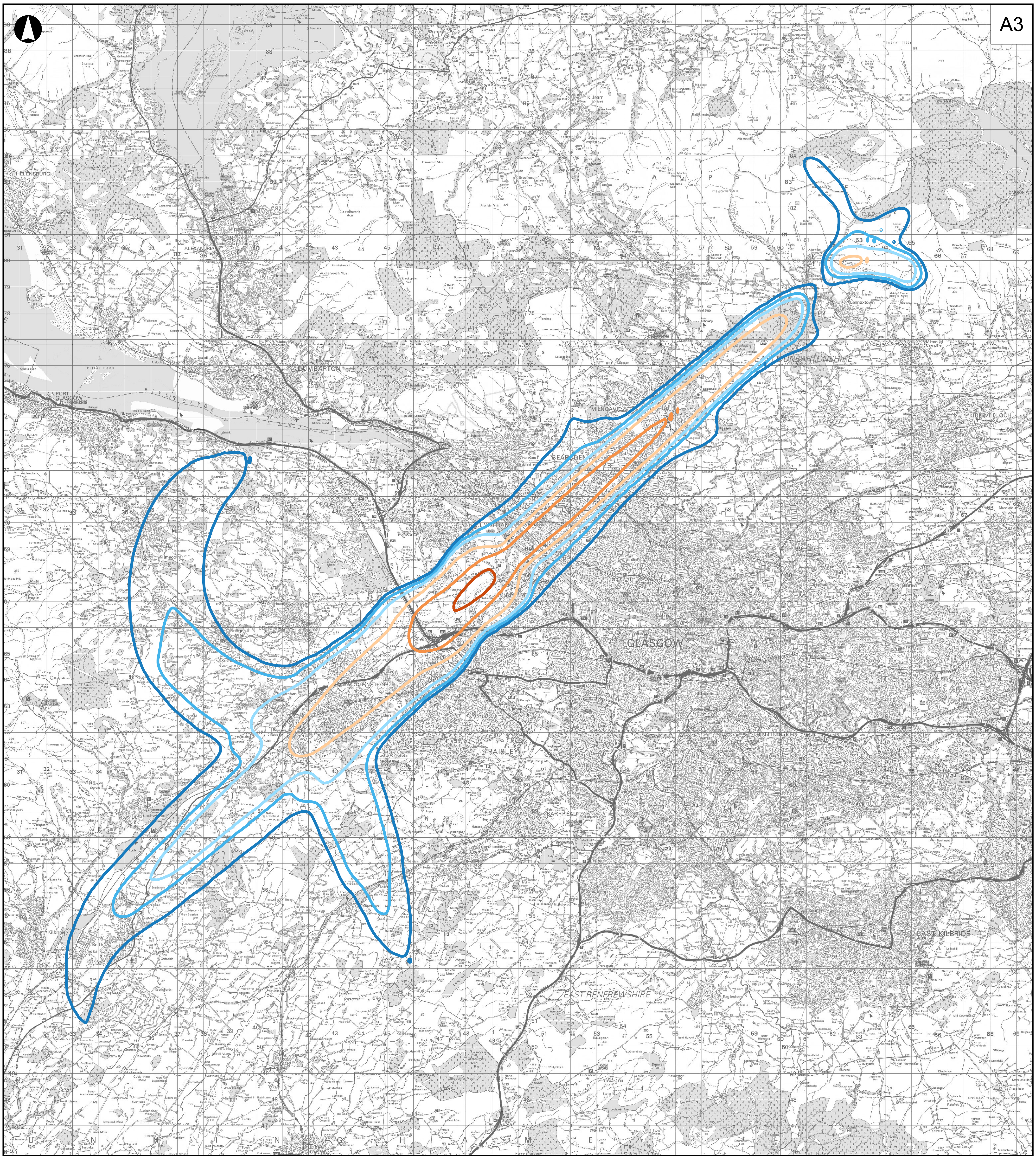
Drawing Title
Figure TA50: 2036 With Airspace Change Option 5 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20
- 50
- 100
- 200

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
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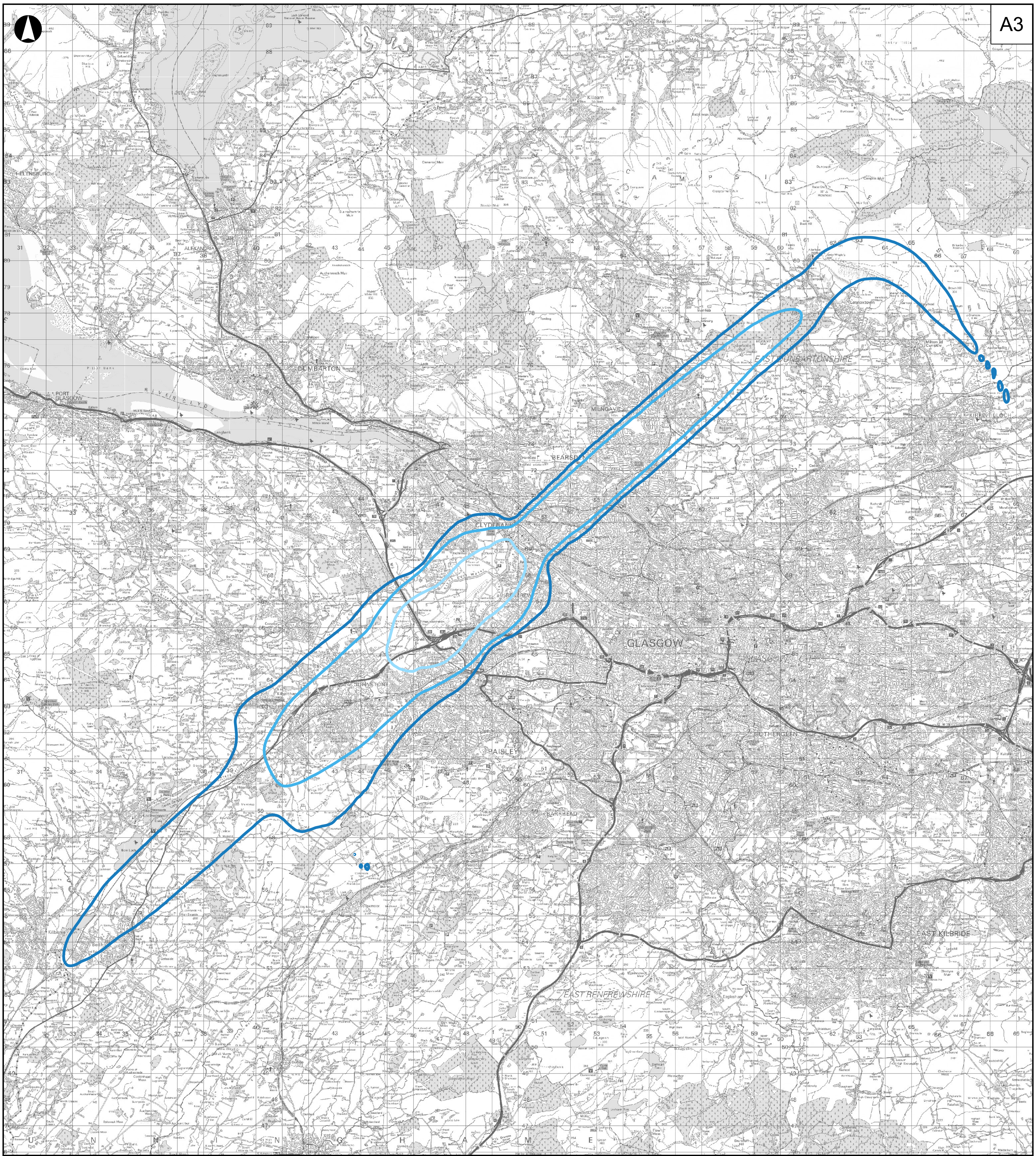
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA51: 2036 With Airspace Change Option 5 92-day summer daytime N65

Scale at A3
1:150,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
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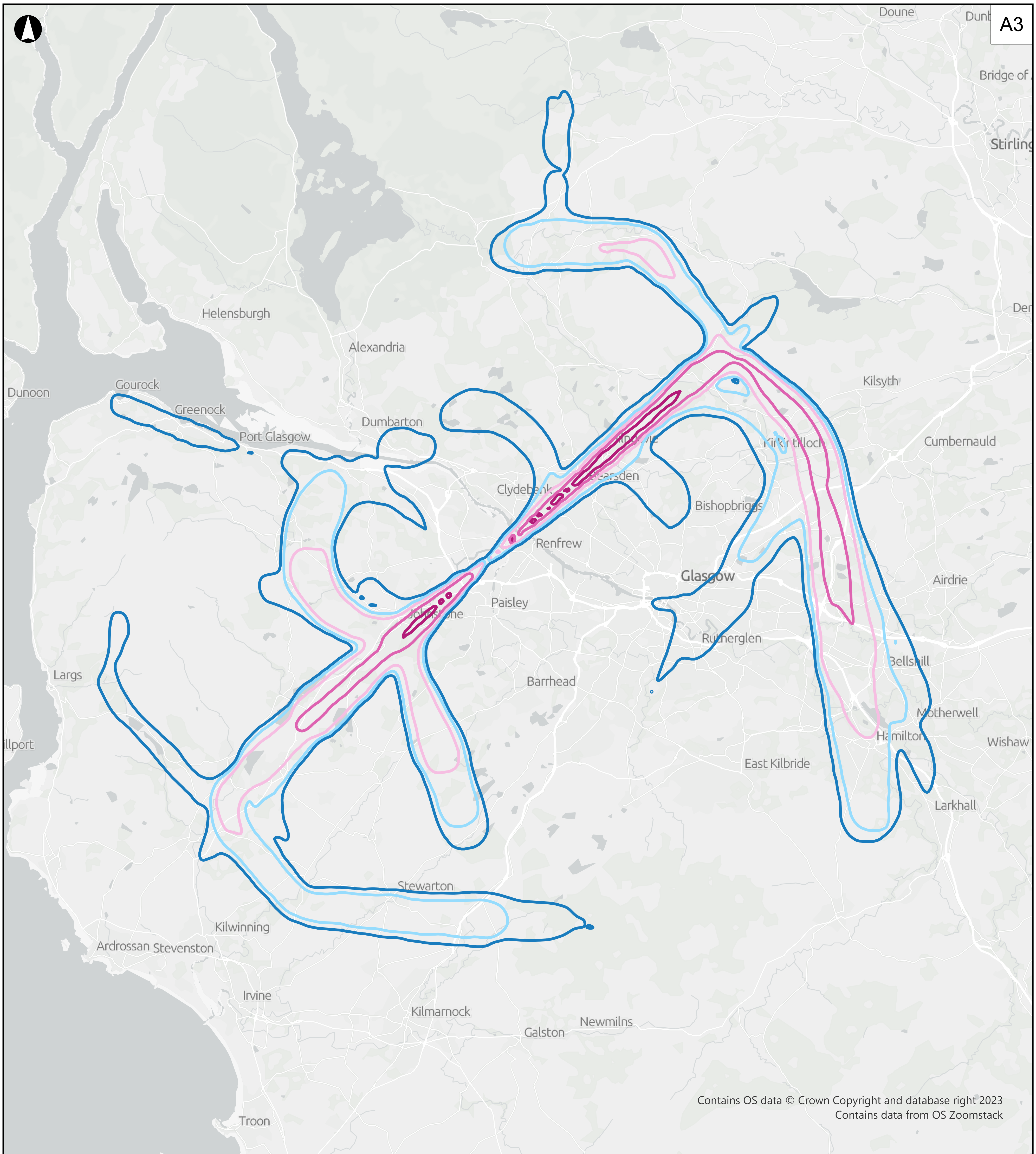
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
**Figure TA52:
2036 With Airspace Change Option 5
92-day summer night-time N60**

Scale at A3
1:150,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA53:
2036 With Airspace Change Option 5 92-day summer daytime Overflights

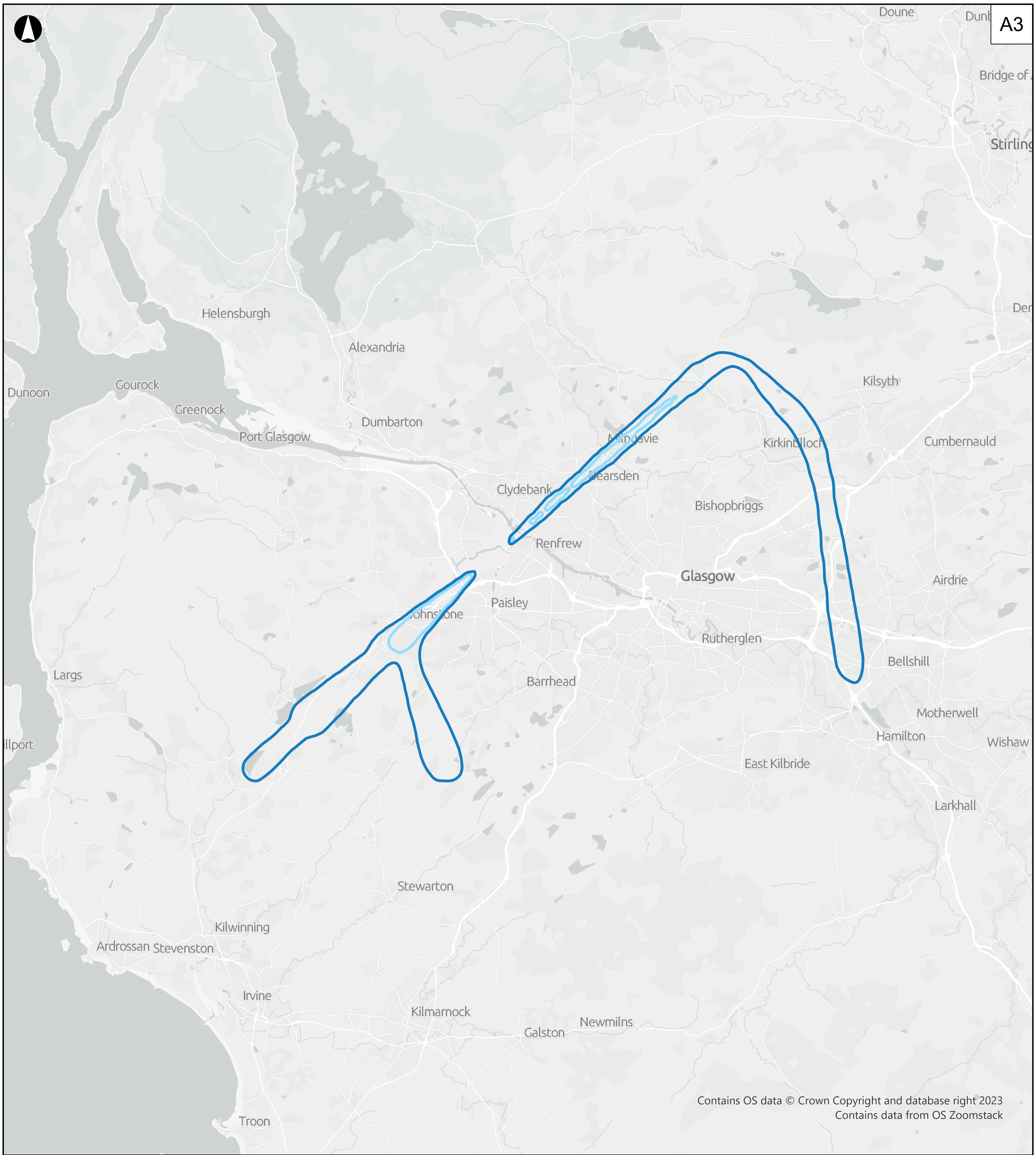
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	P01



Legend

5

10

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

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Drawing Title

Figure TA54: 2036 With Airspace Change Option 5 92-day summer night-time Overflights

Scale at A3

1:250,000

Suitability

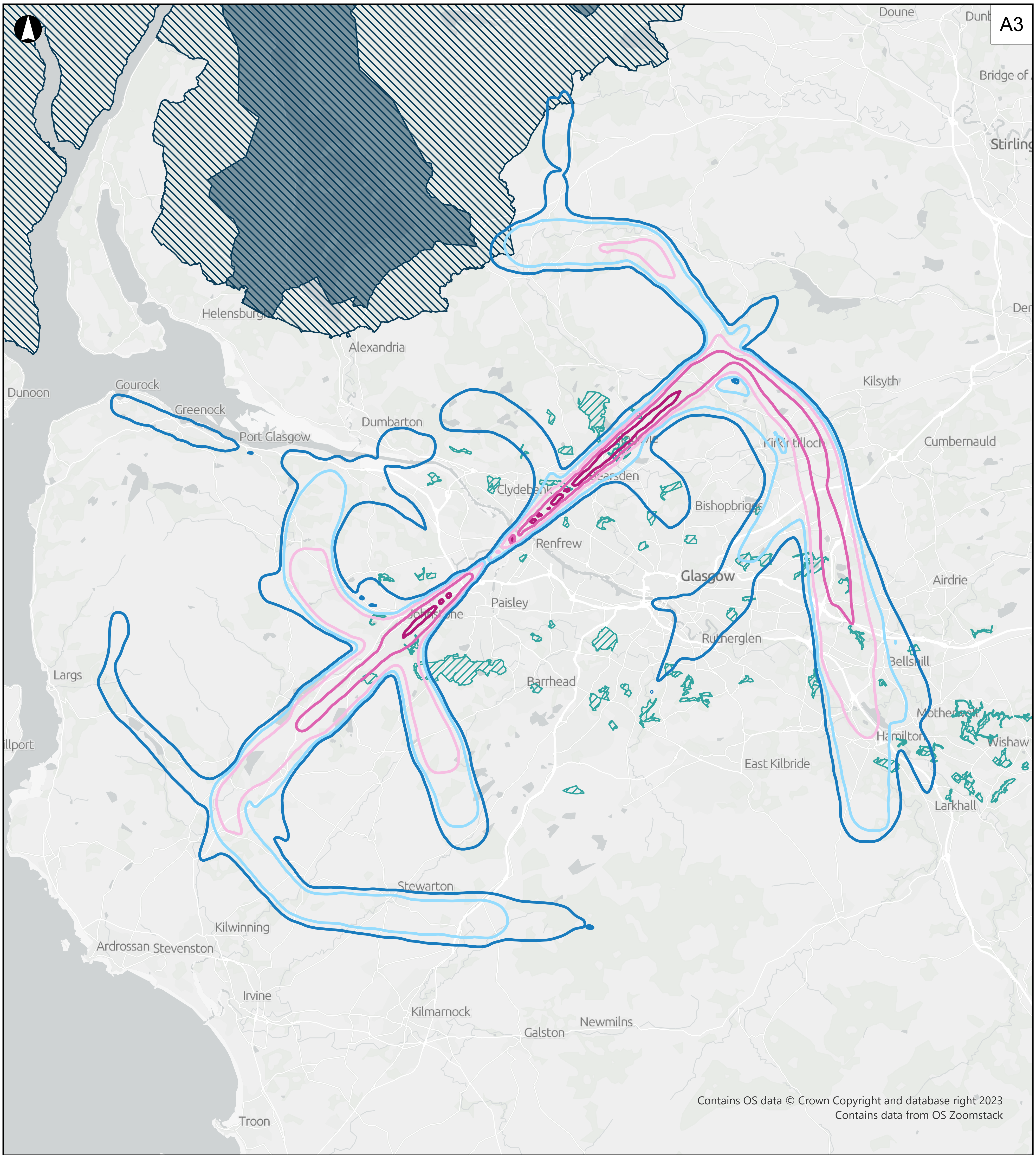
Issue

Project Number

268771-00

Rev

P01



Legend

- 5
- 10
- 20
- 50
- 100
- Candidate Quiet Areas
- Loch Lomond Trossachs National Park
- Loch Lomond National Scenic Area

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

**Figure TA55:
2036 With Airspace Change Option 5 92-day summer daytime Overflights with tranquillity areas**

Scale at A3

1:250,000

Suitability

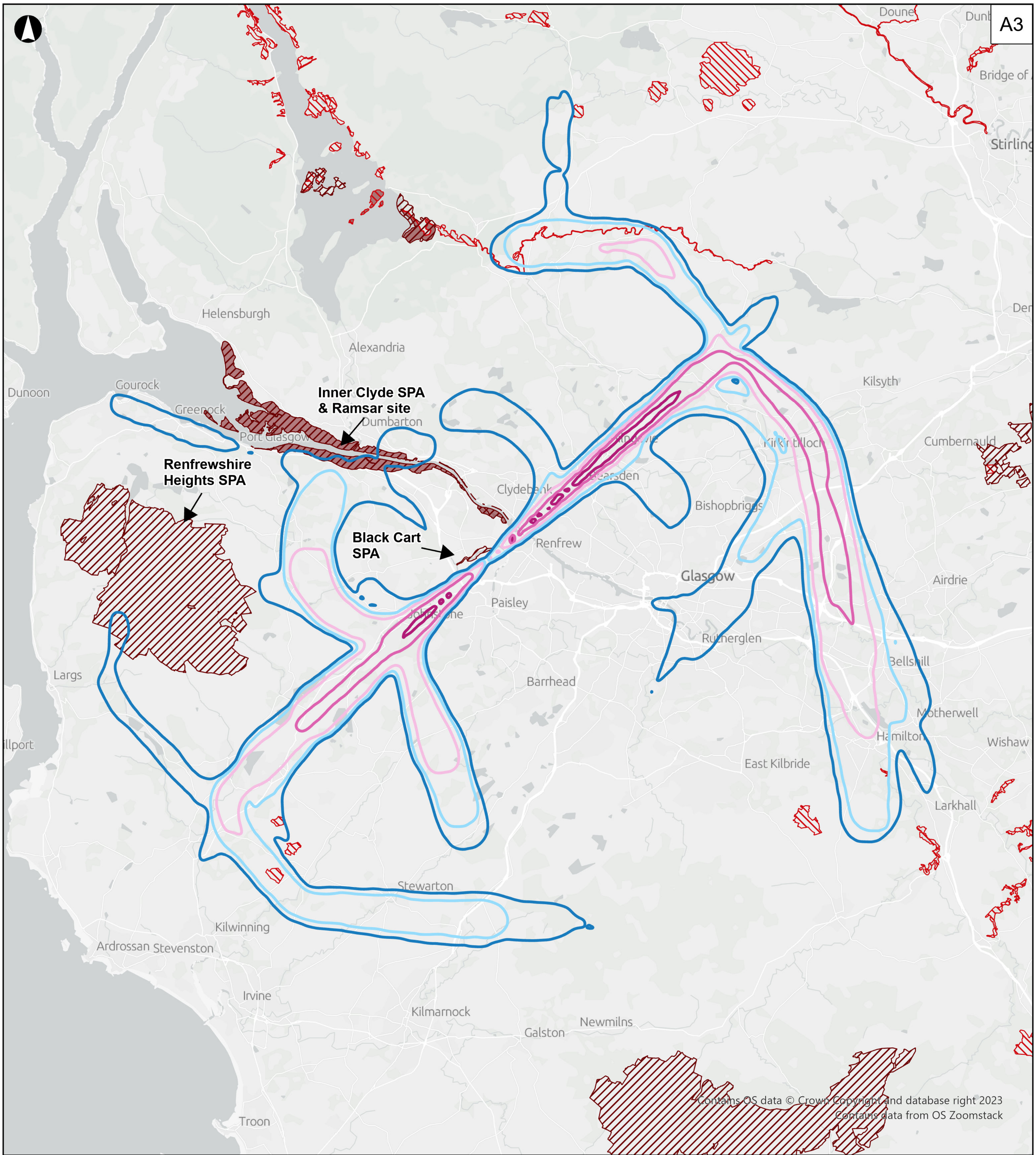
Issue

Project Number

268771-00

Rev

P01



Legend

- 5
- 10
- 20
- 50
- 100
- Special Protection Areas
- Special Areas of Conservation
- Ramsar sites

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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Client
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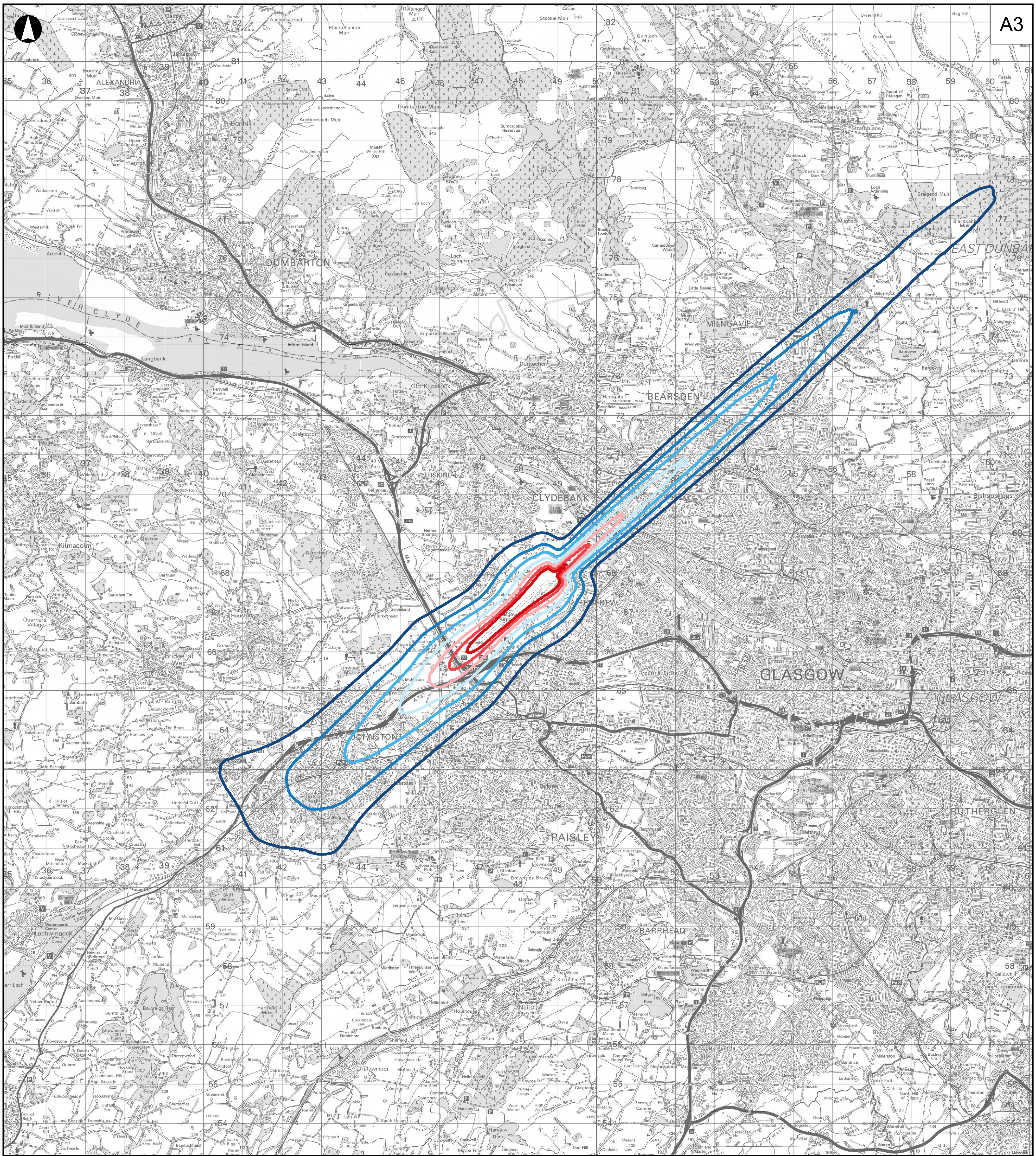
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA56: 2036 With Airspace Change Option 5 92-day summer daytime Overflights with European sites

Scale at A3
1:250,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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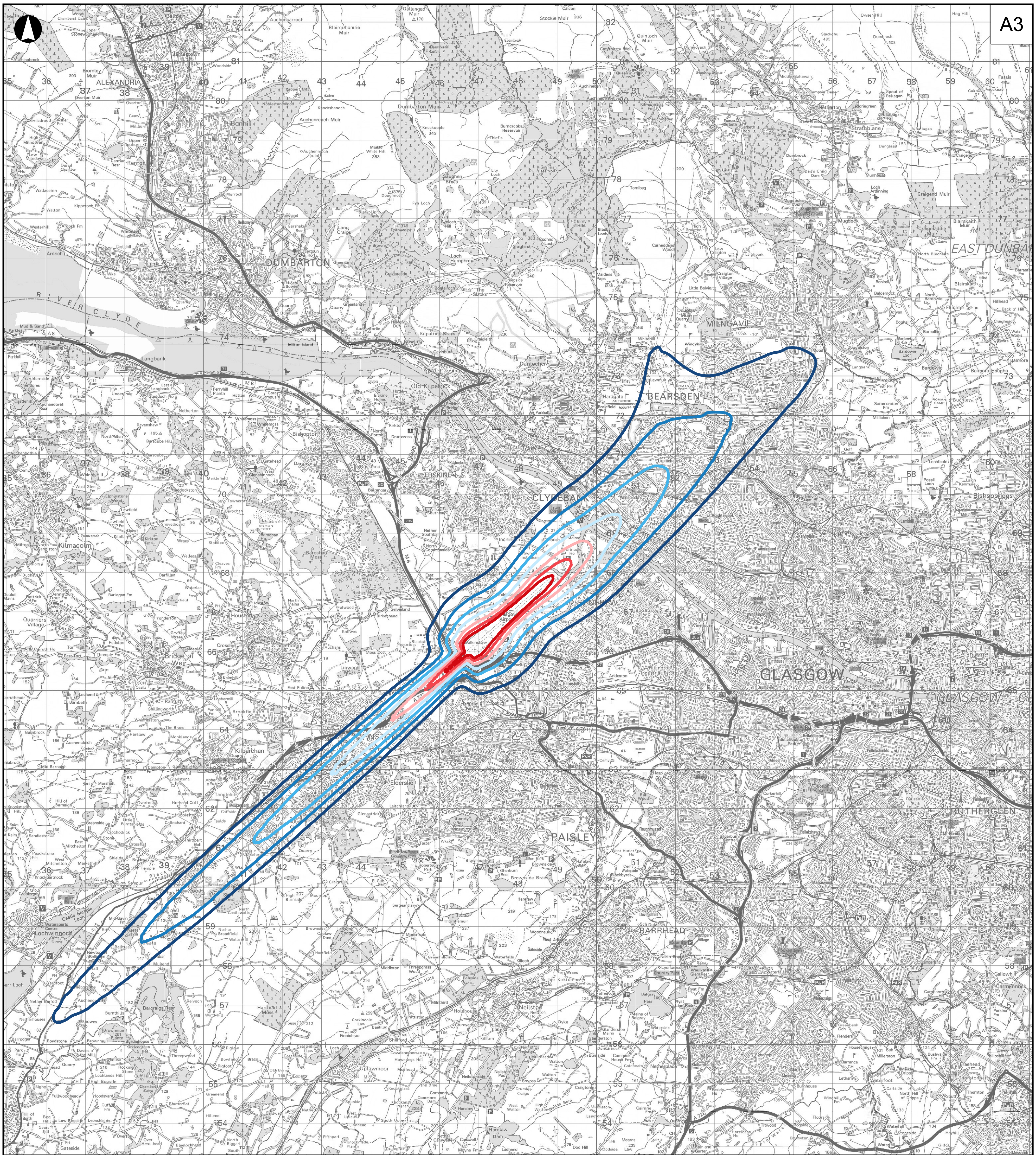
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA57: 2036 With Airspace Change Option 5 92-day summer 100% westerly daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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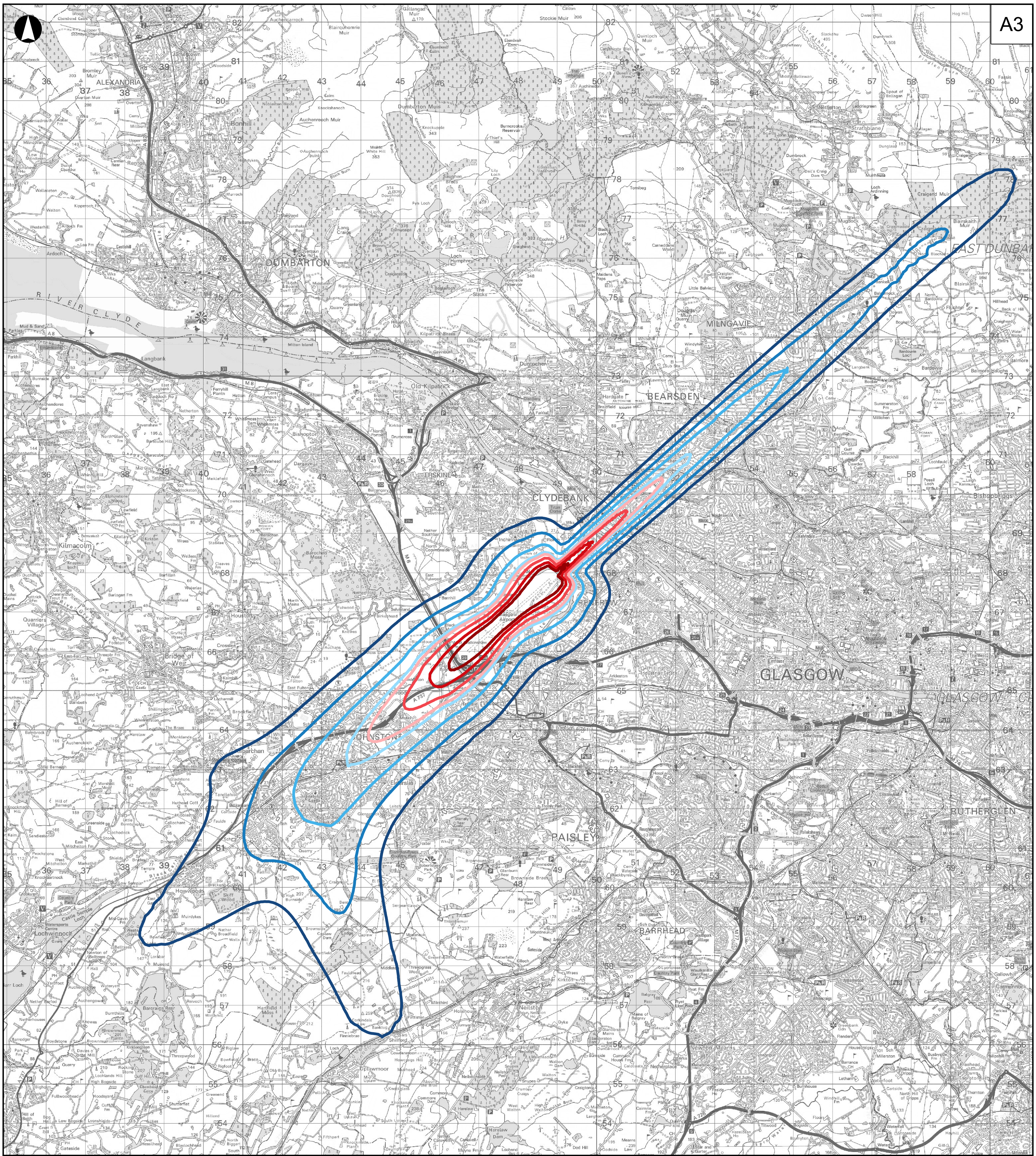
Drawing Title
Figure TA58: 2036 With Airspace Change Option 5 92-day summer 100% easterly daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
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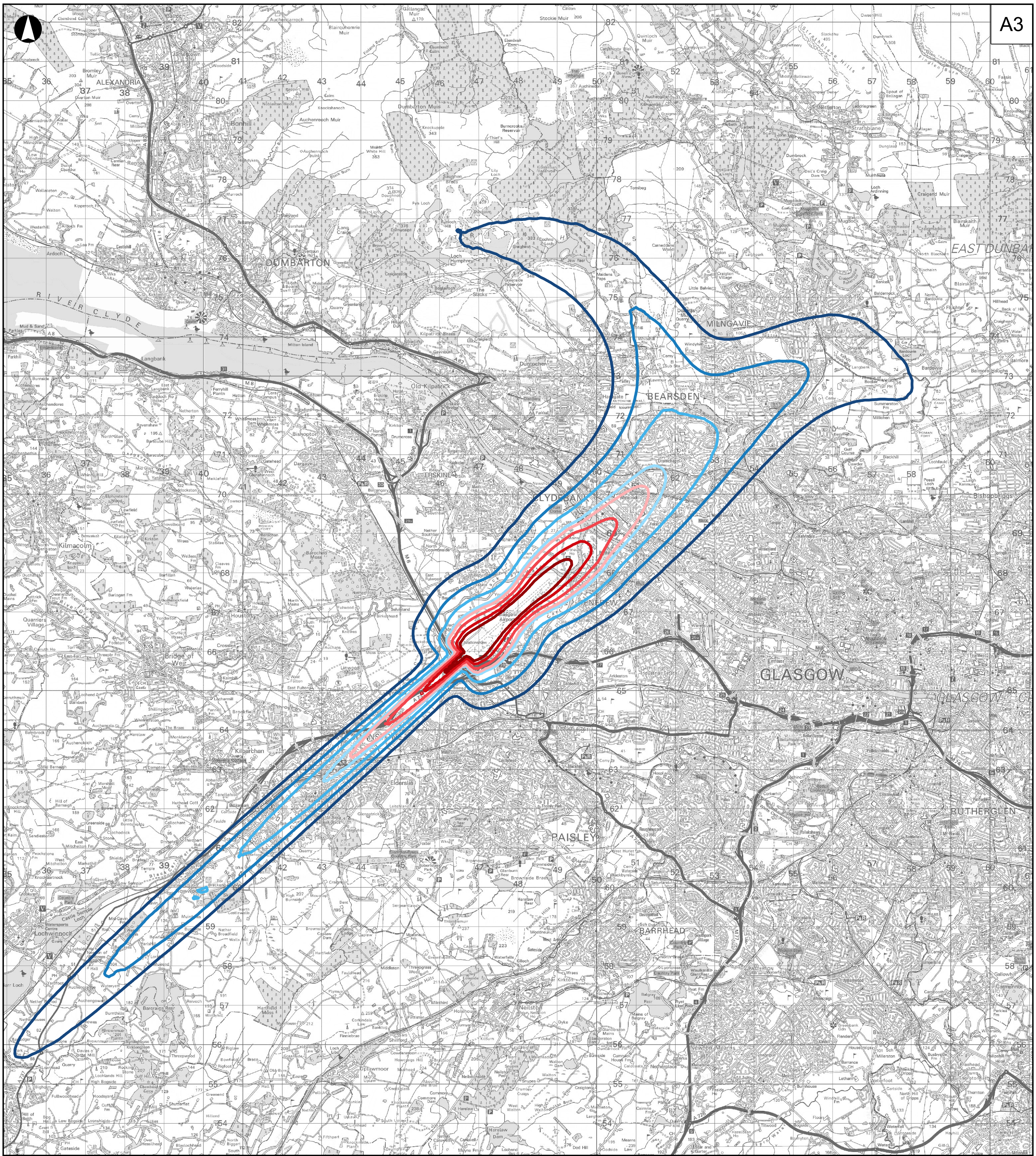
Drawing Title
Figure TA59: 2036 With Airspace Change Option 5 92-day summer 100% westerly night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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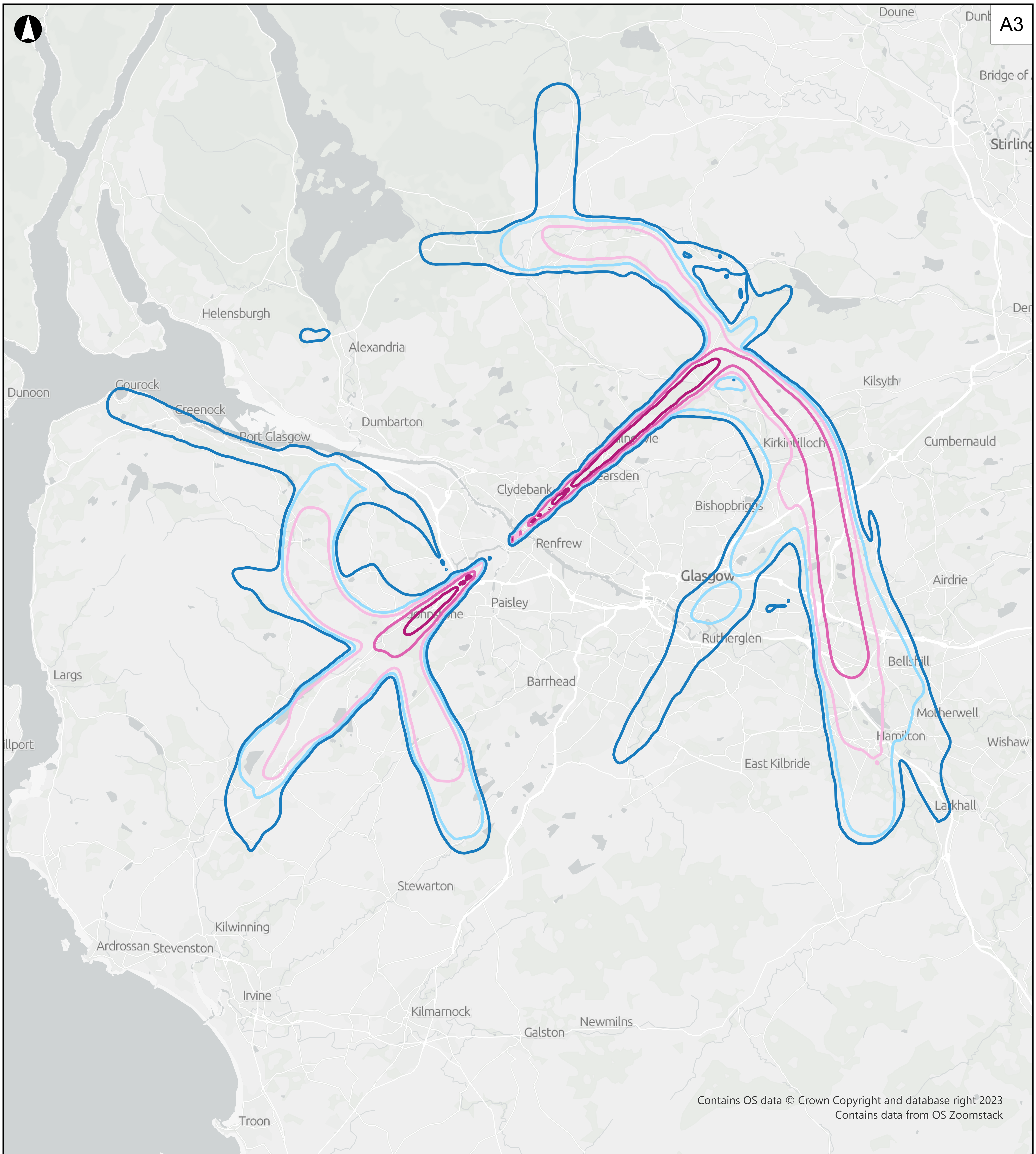
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA60: 2036 With Airspace Change Option 5 92-day summer 100% easterly night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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Client
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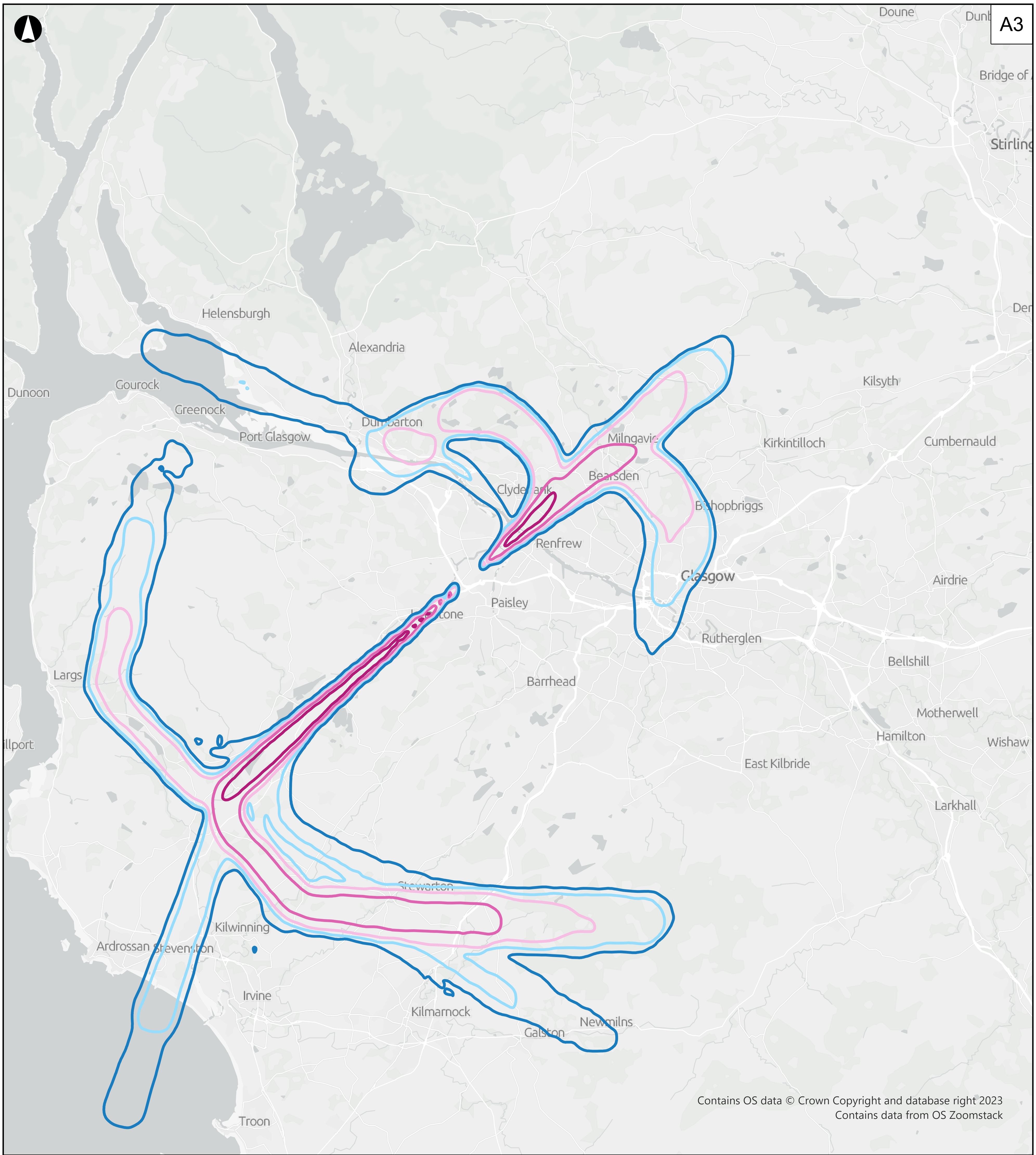
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA61: 2036 With Airspace Change Option 5 92-day summer 100% westerly daytime Overflights

Scale at A3
1:250,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 5
- 10
- 20
- 50
- 100

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 5 10 20

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Client
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Project Name
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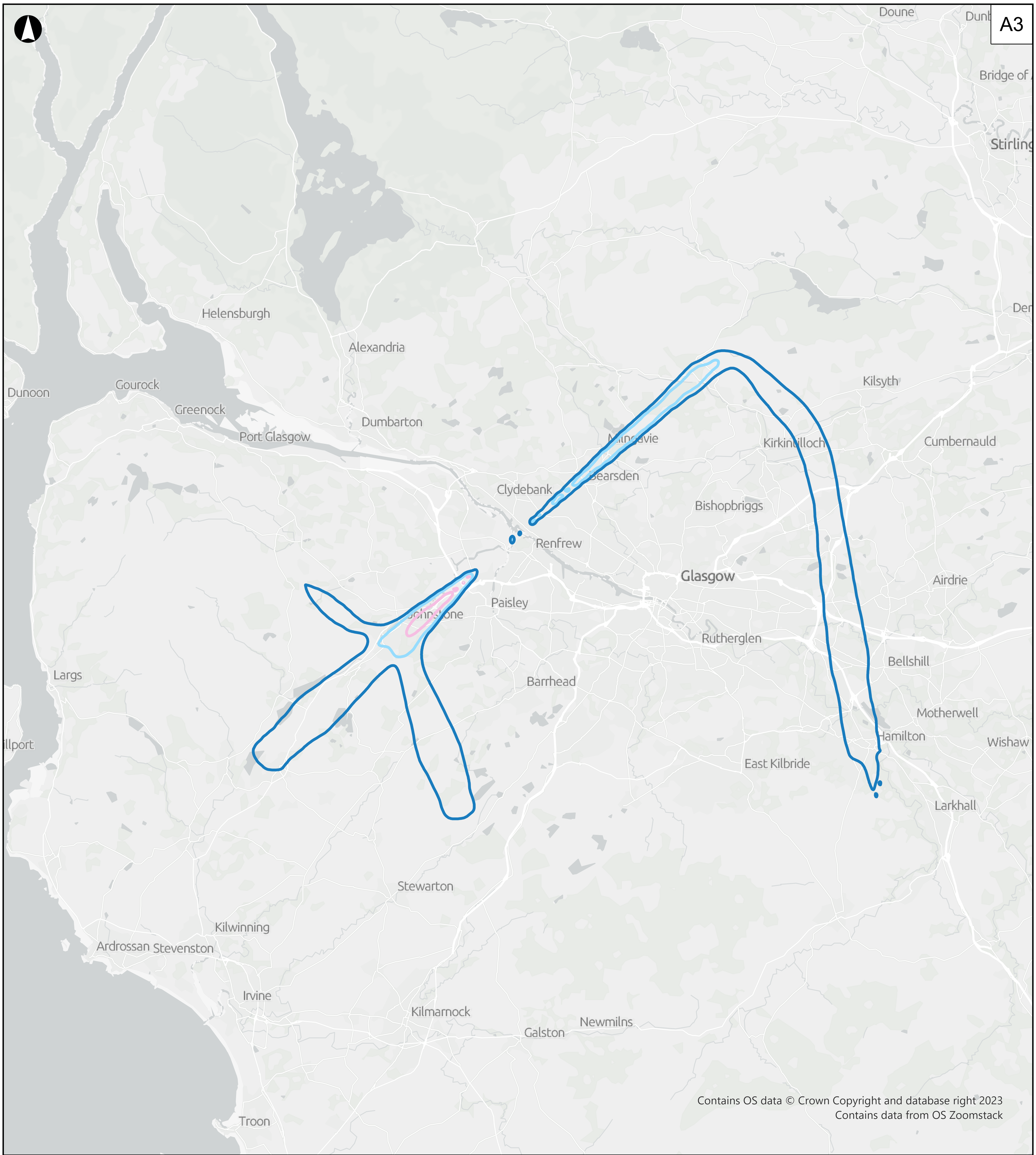
Drawing Title
Figure TA62: 2036 With Airspace Change Option 5 92-day summer 100% easterly daytime Overflights

Scale at A3
1:250,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 5
- 10
- 20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

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Drawing Title

**Figure TA63:
2036 With Airspace Change Option 5 92-day summer 100% westerly night-time Overflights**

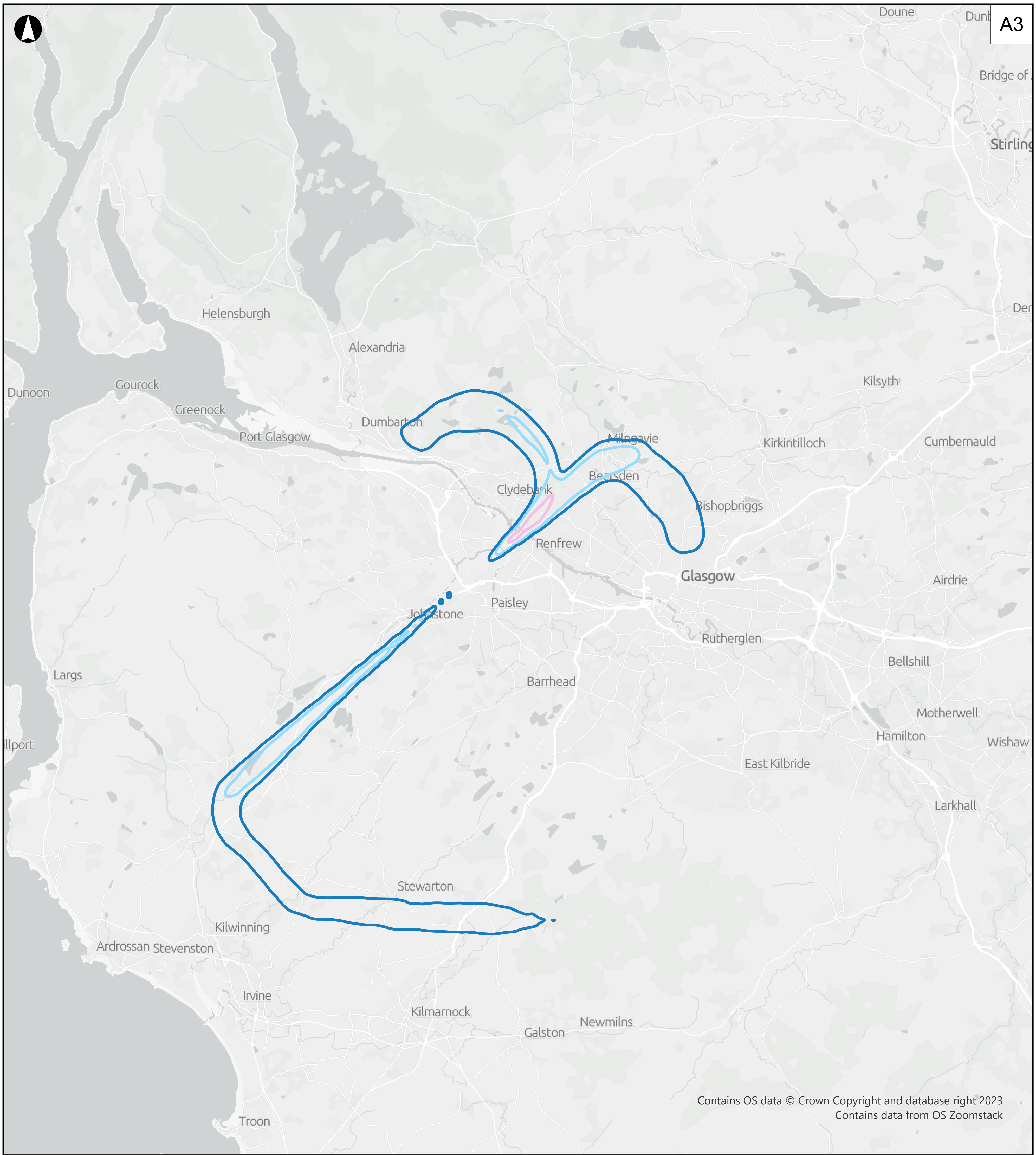
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

5

10

20

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 5 10 20

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Client

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Project Name

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Drawing Title

Figure TA64: 2036 With Airspace Change Option 5 92-day summer 100% easterly night-time Overflights

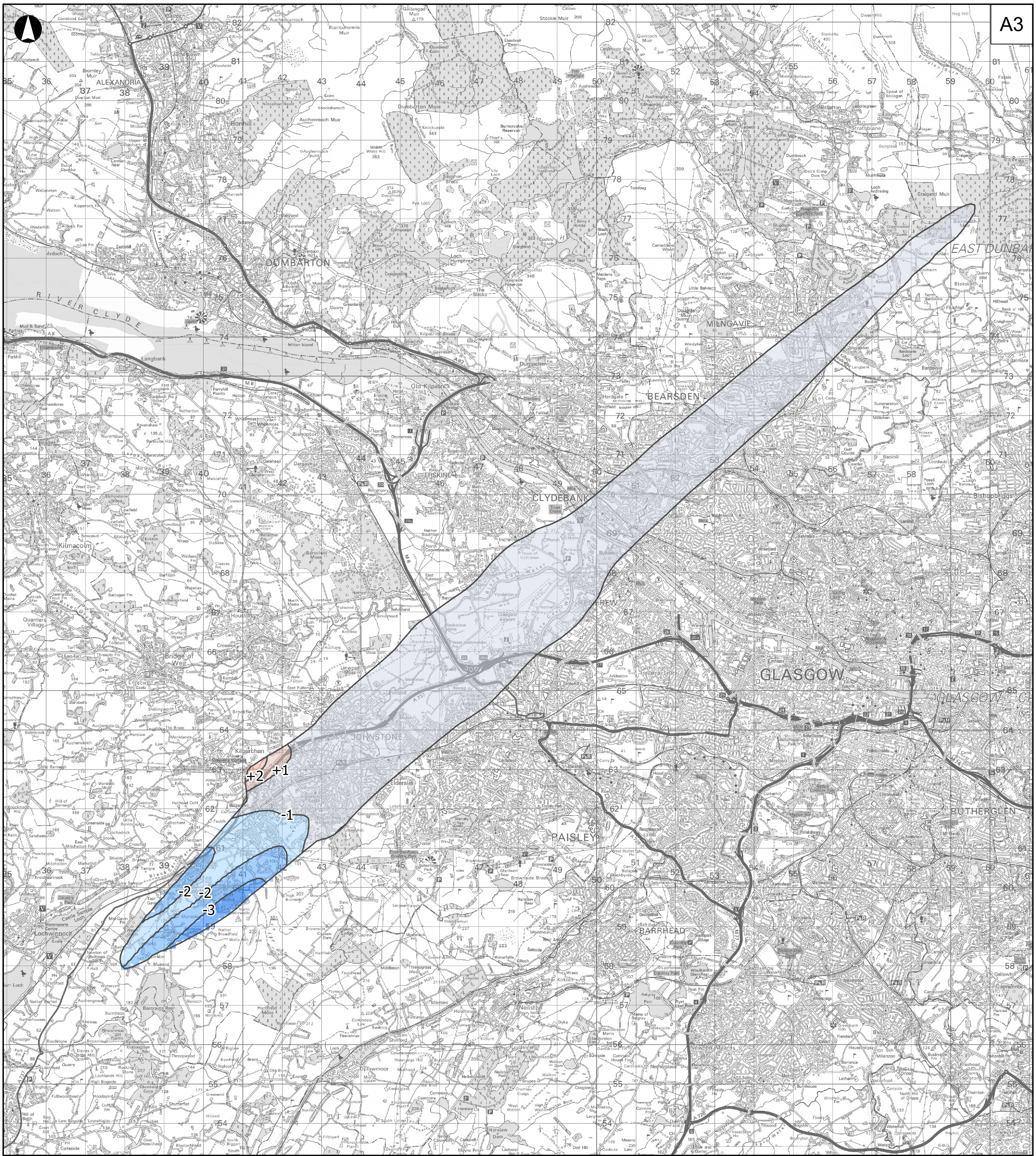
Scale at A3

1:250,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

-3dB	+2dB
-2dB	+3dB
-1dB	+6dB
0dB	+9dB
+1dB	

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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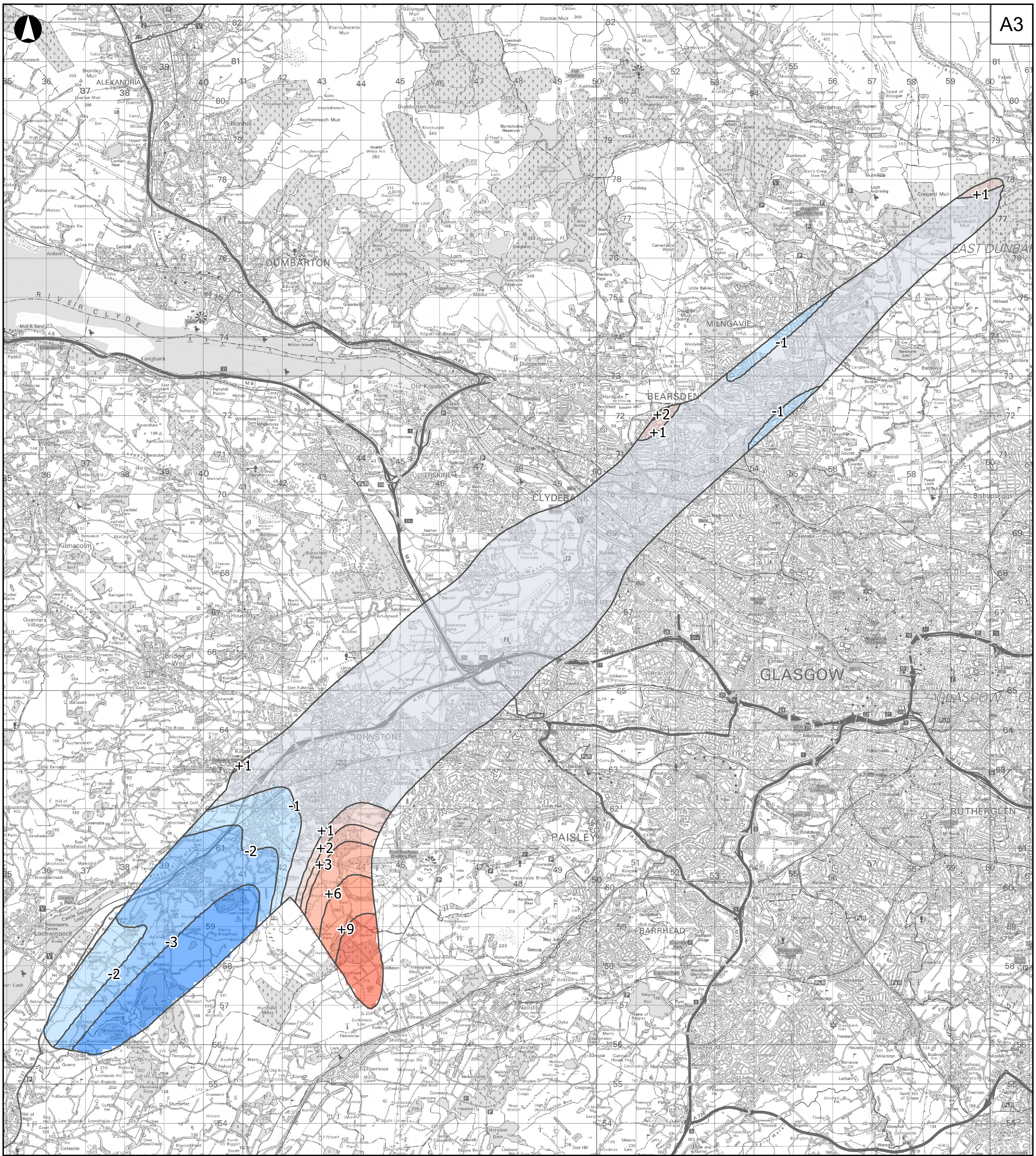
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA65: 2036 With Airspace Change Option 5 92-day summer difference daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- -3dB
- -2dB
- -1dB
- 0dB
- 1dB
- 2dB
- 3dB
- 6dB
- 9dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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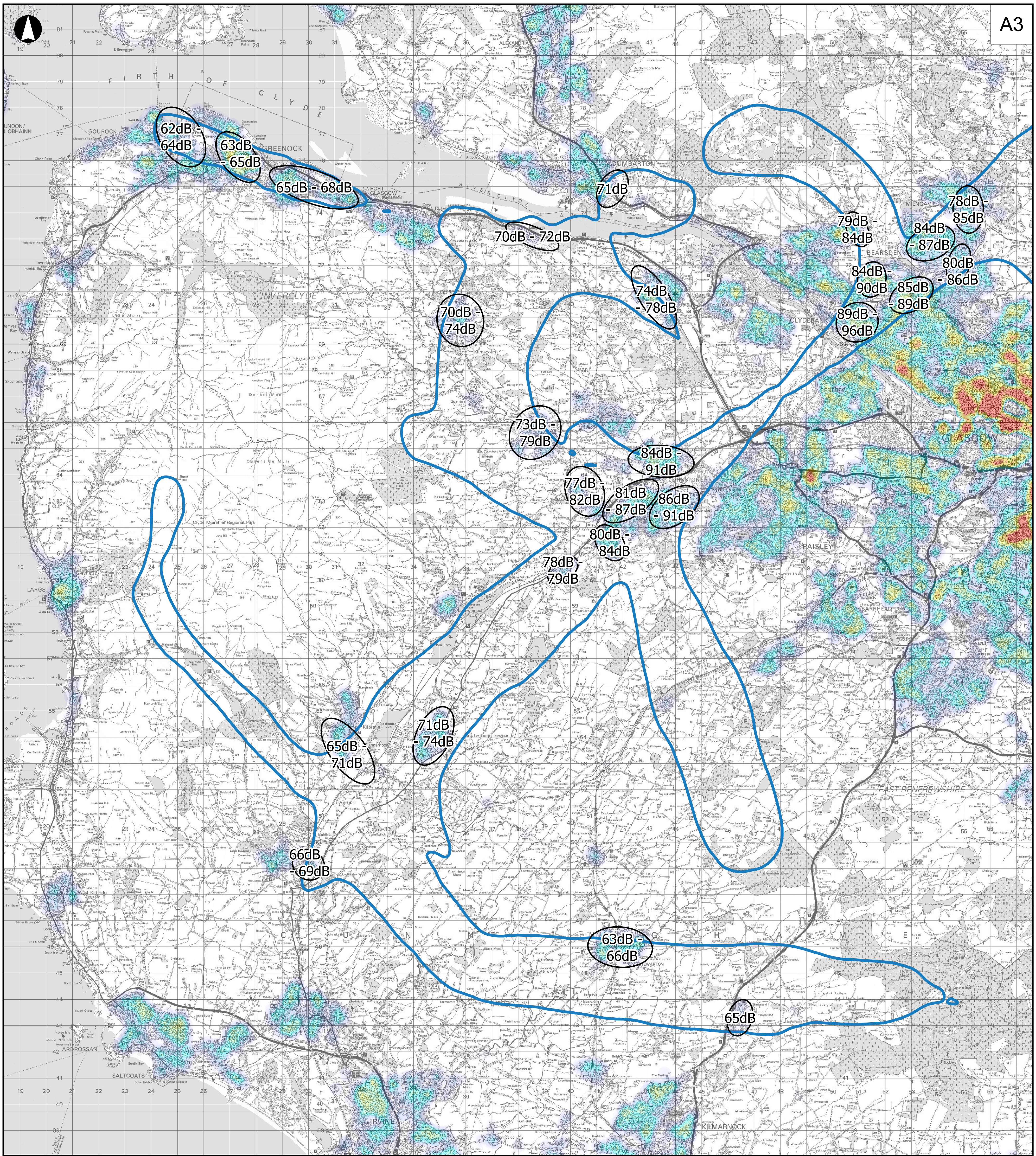
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA66: 2036 With Airspace Change Option 5 92-day summer difference night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

Range of dB LASmax in community area

5 (Daytime Overflights)

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 2.5 5 10

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA67: 2036 With Airspace Change Option 5 Maximum spot noise levels (worst-case of all aircraft types) 1 of 2

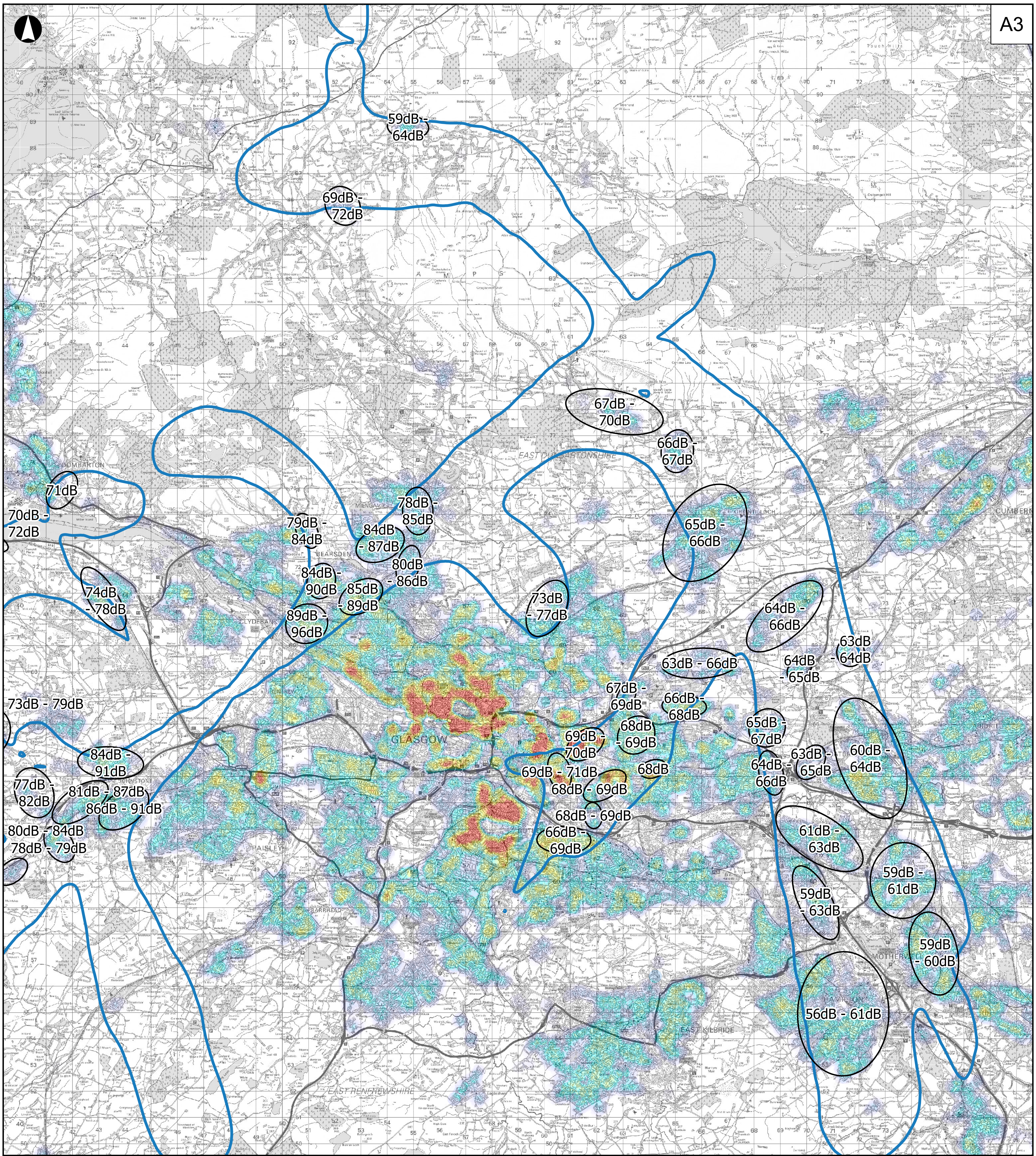
Scale at A3

1:150,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

Range of dB LASmax in community area

5 (Daytime Overflights)

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 2.5 5 10

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Client
Glasgow Airport Ltd

Project Name
Glasgow Airport FASI-N Airspace Change Proposal

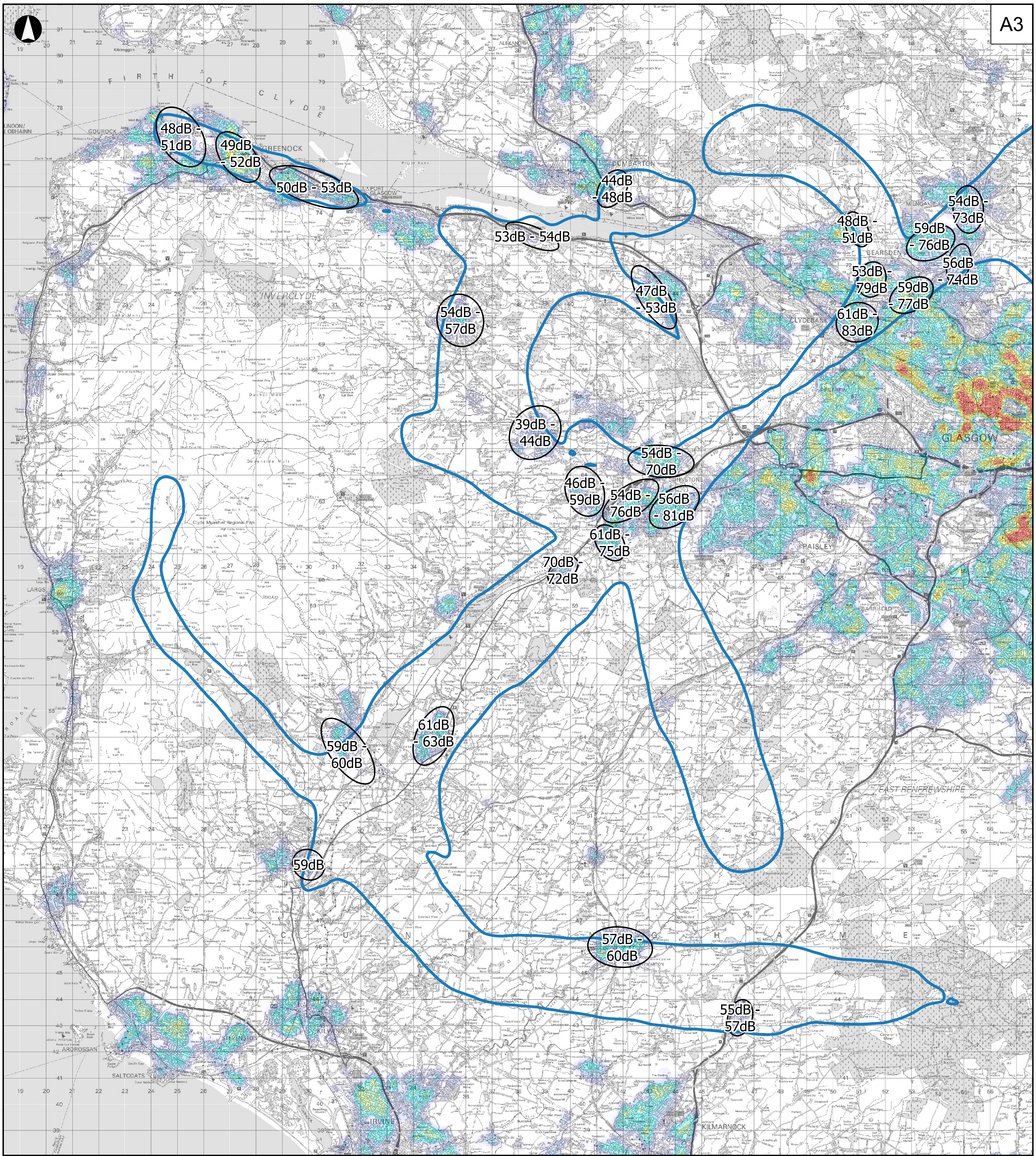
Drawing Title
Figure TA68: With Airspace Change 2036 Option 5 Maximum spot noise levels (worst-case of all aircraft types) 2 of 2

Scale at A3
1:150,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

Range of dB LASmax in community area

5 (Daytime Overflights)

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 2.5 5 10

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA69: With Airspace Change 2036 Option 5 Maximum spot noise levels (most common aircraft type - A320neo) 1 of 2

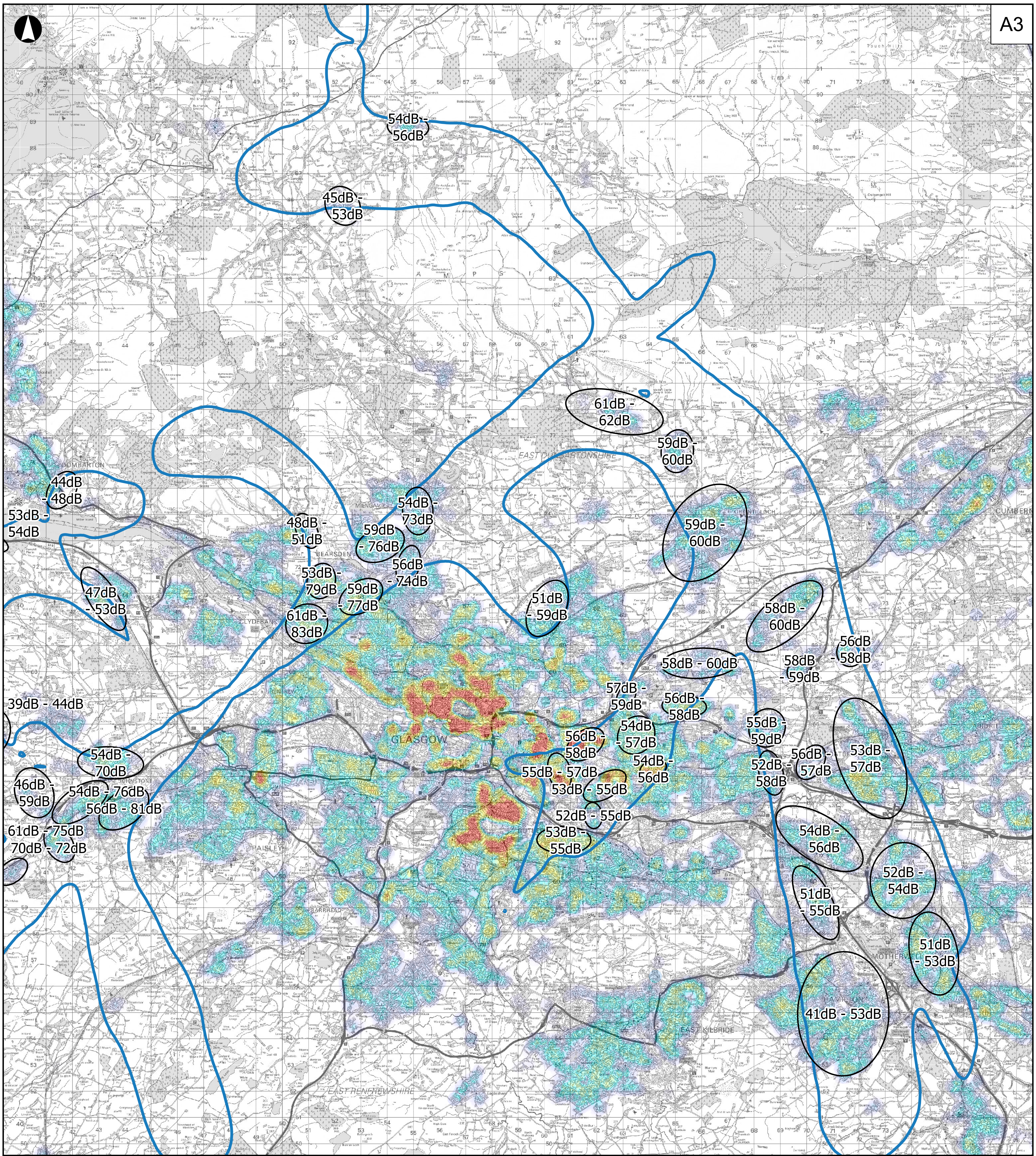
Scale at A3

1:150,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

Range of dB LASmax in community area

5 (Daytime Overflights)

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 2.5 5 10

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Client

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Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

Figure TA70: With Airspace Change 2036 Option 5 Maximum spot noise levels (most common aircraft type - A320neo) 2 of 2

Scale at A3

1:150,000

Suitability

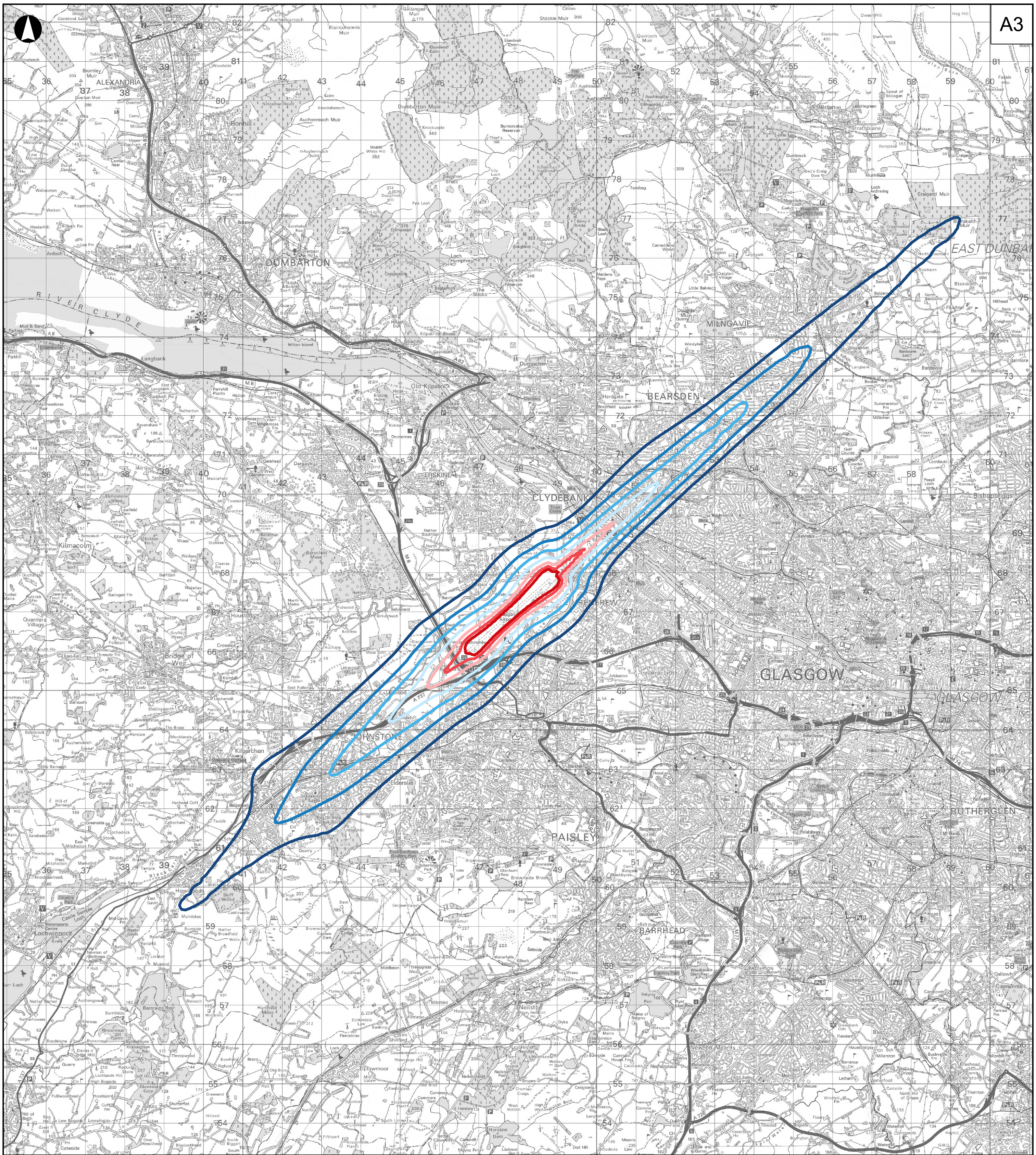
Issue

Project Number

268771-00

Rev

P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
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Project Name
Glasgow Airport FASI-N Airspace Change Proposal

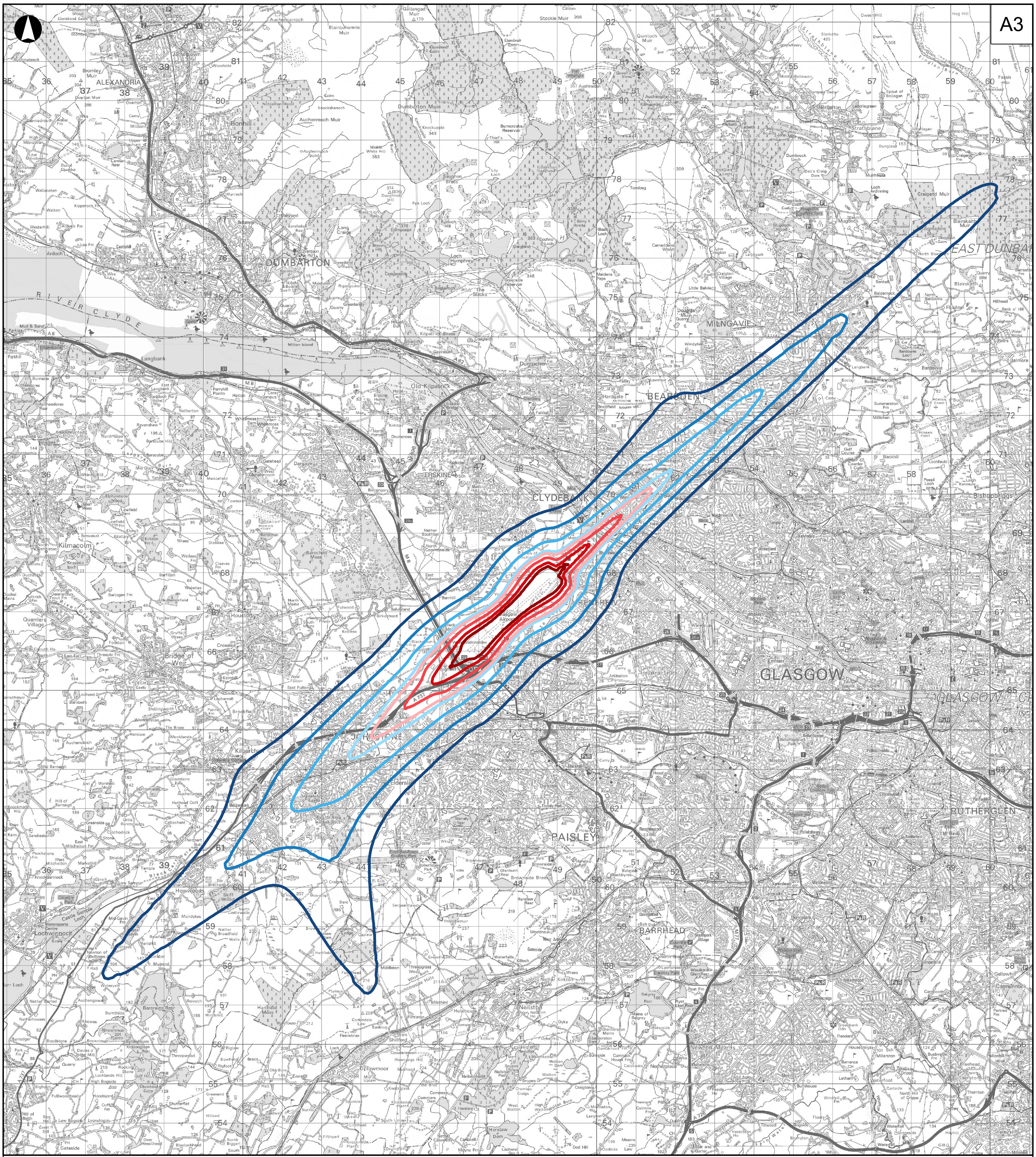
Drawing Title
Figure TA71:
2027 With Airspace Change Option 6
92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

Project Name
Glasgow Airport FASI-N Airspace Change Proposal

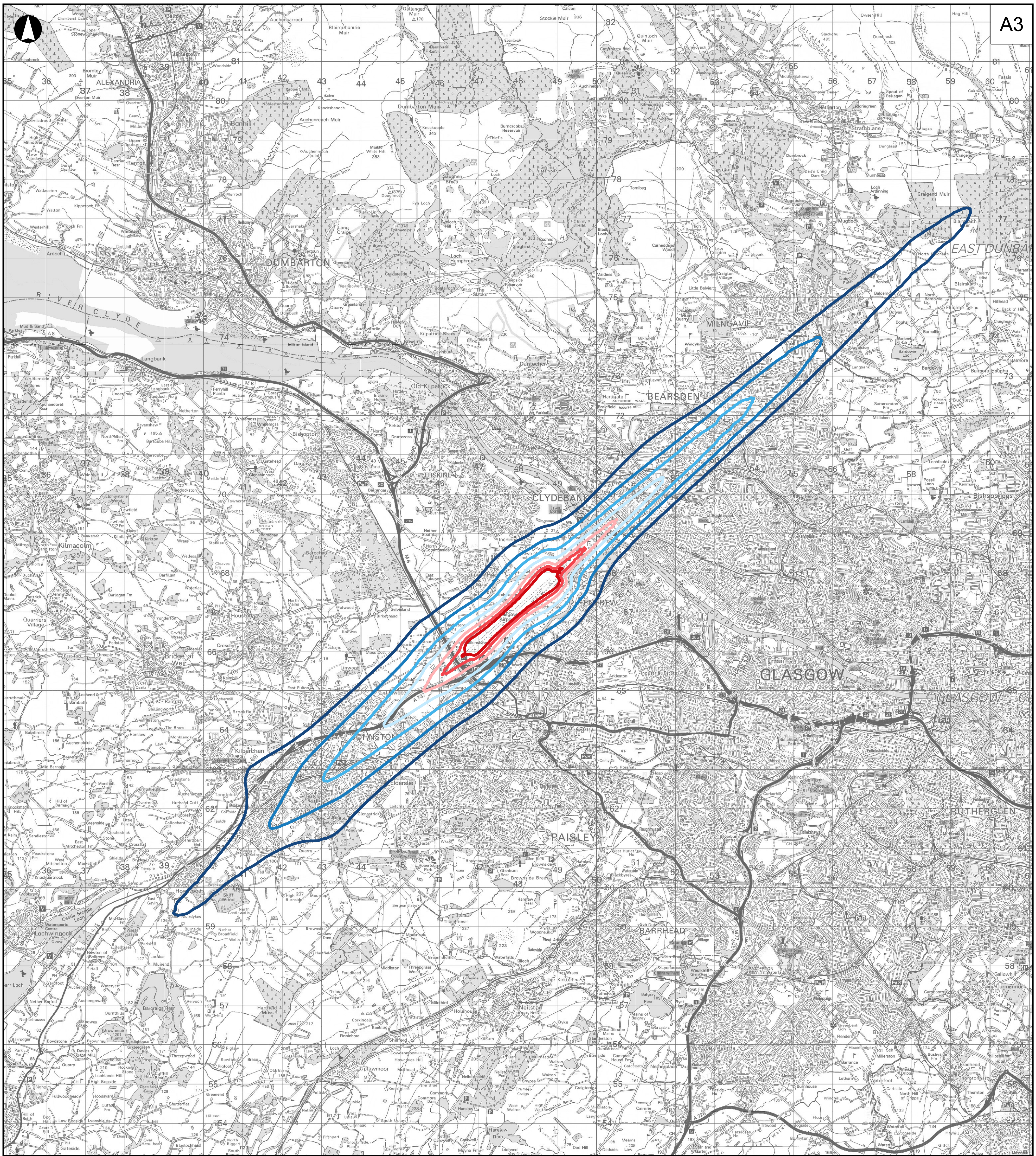
Drawing Title
**Figure TA72:
2027 With Airspace Change Option 6
92-day summer night-time $L_{Aeq,8h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

Project Name
Glasgow Airport FASI-N Airspace Change Proposal

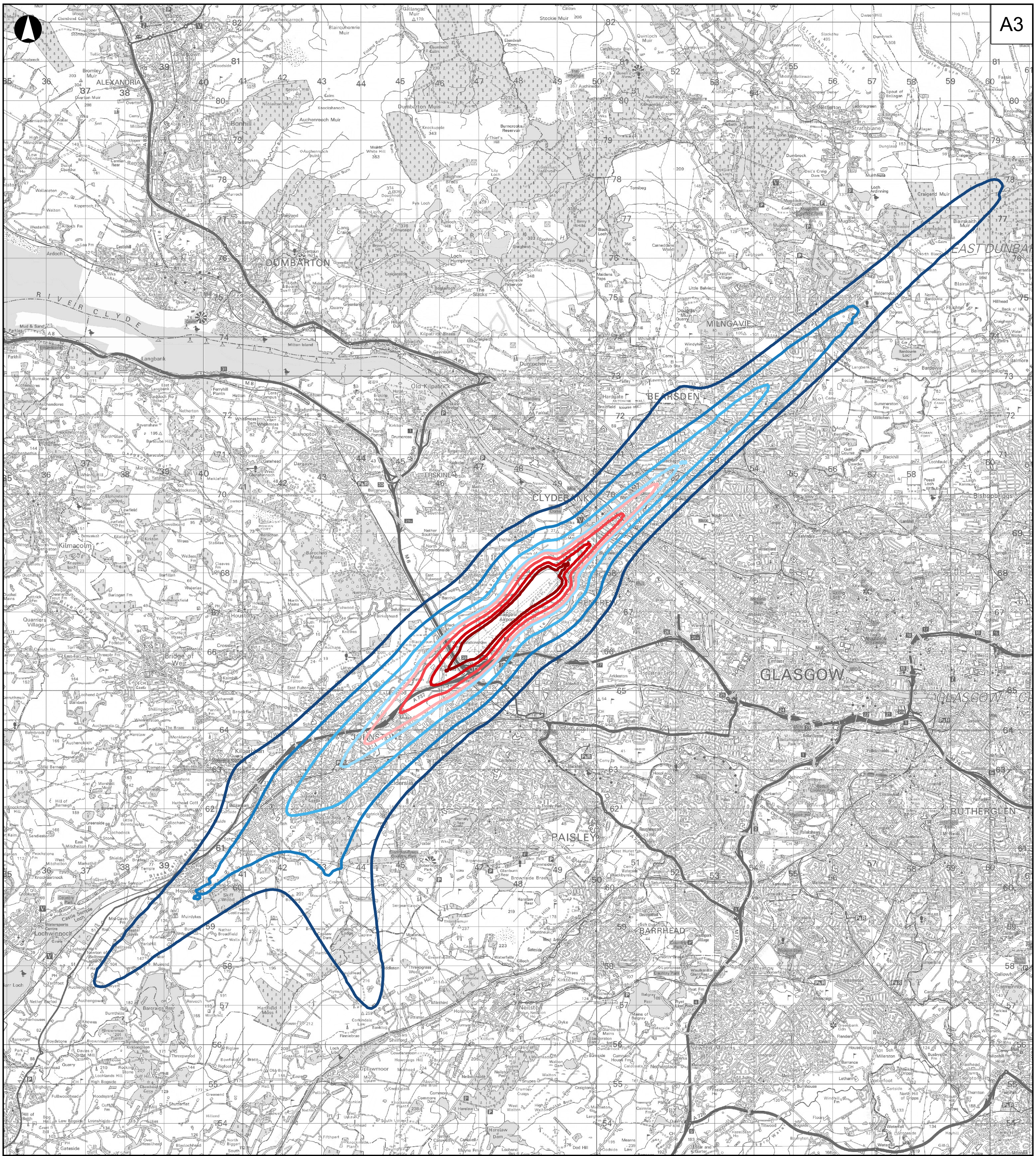
Drawing Title
Figure TA73: 2036 With Airspace Change Option 6 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

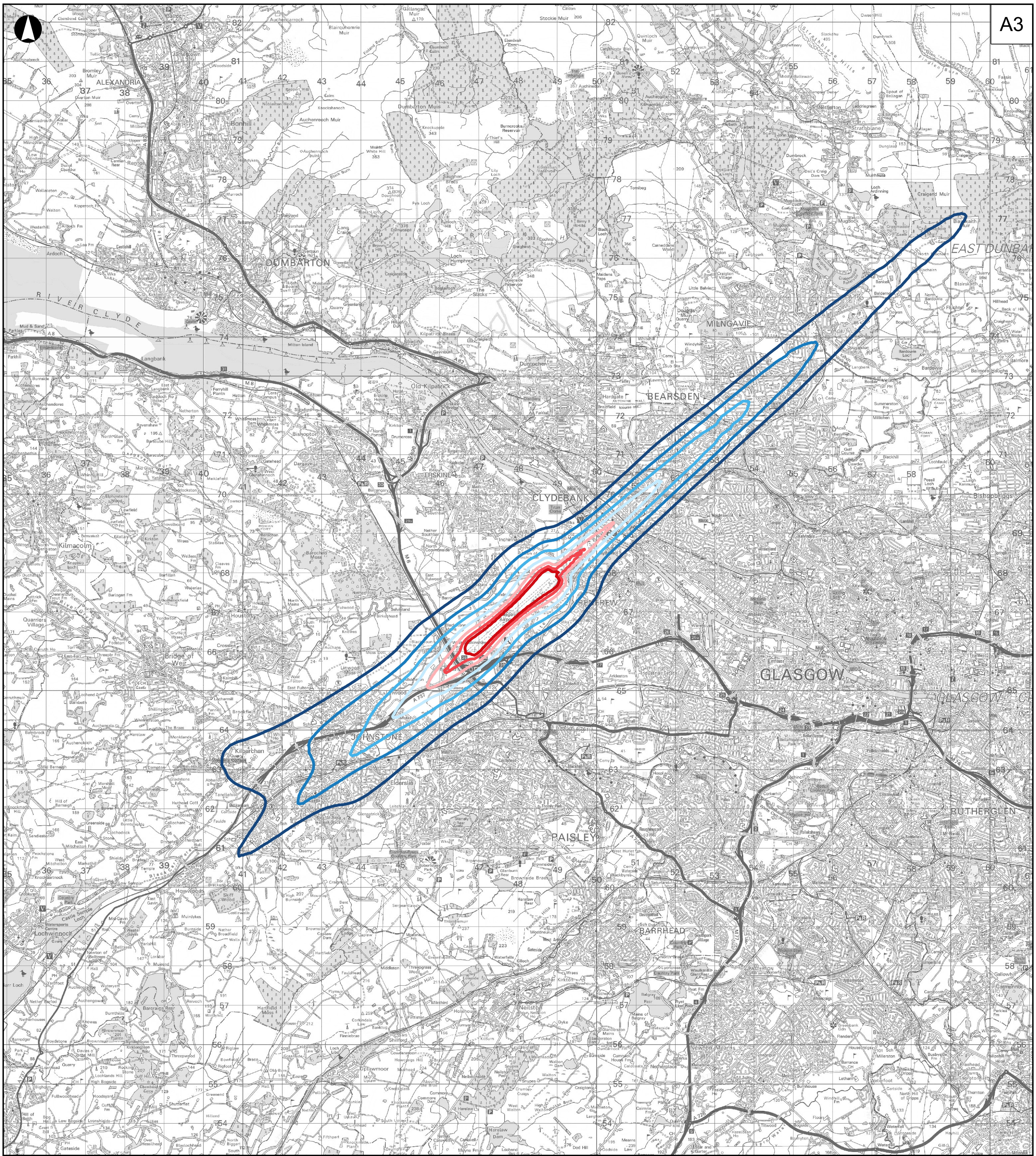
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA74: 2036 With Airspace Change Option 6 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

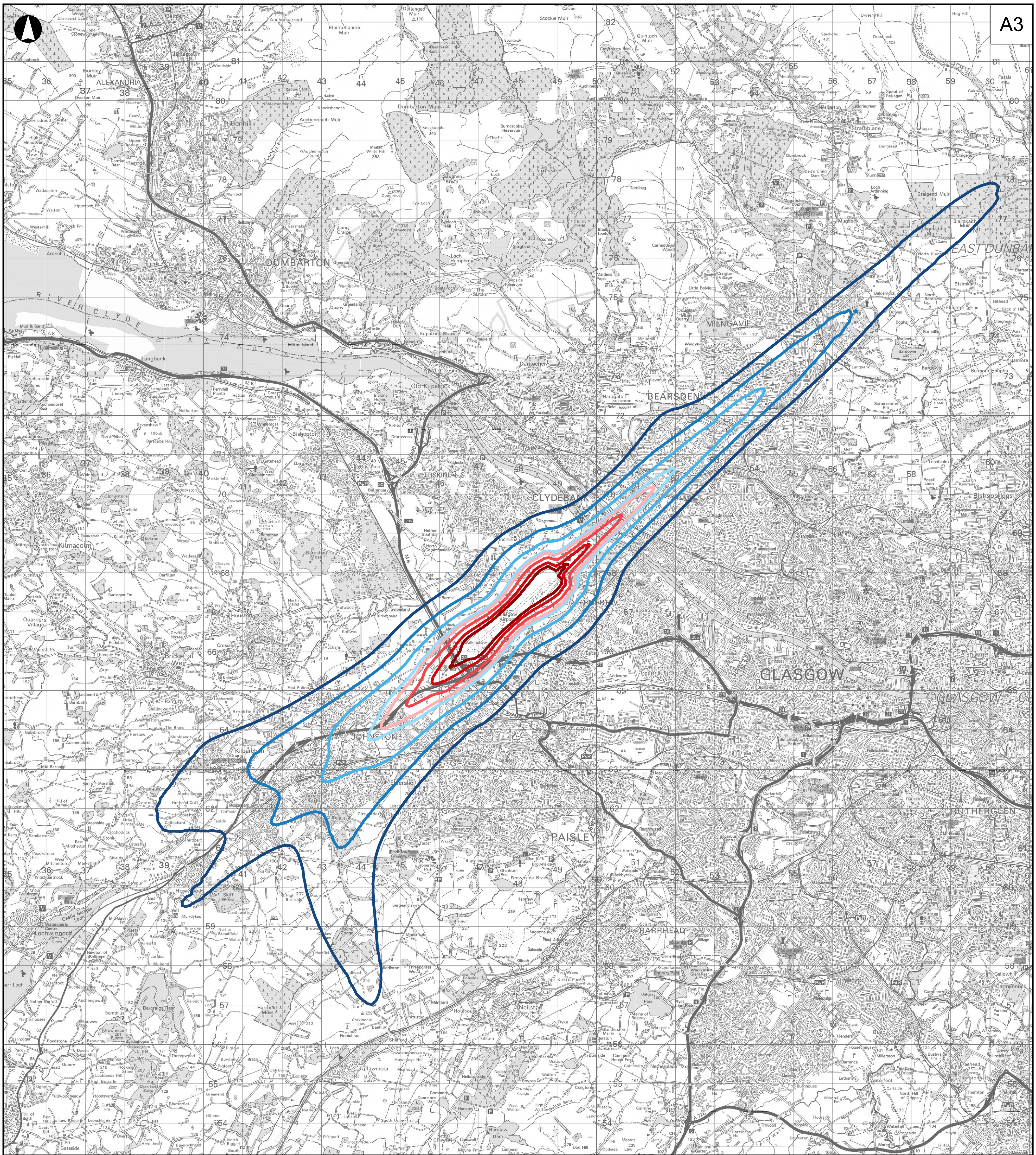
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA75: 2027 With Airspace Change Option 7 92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

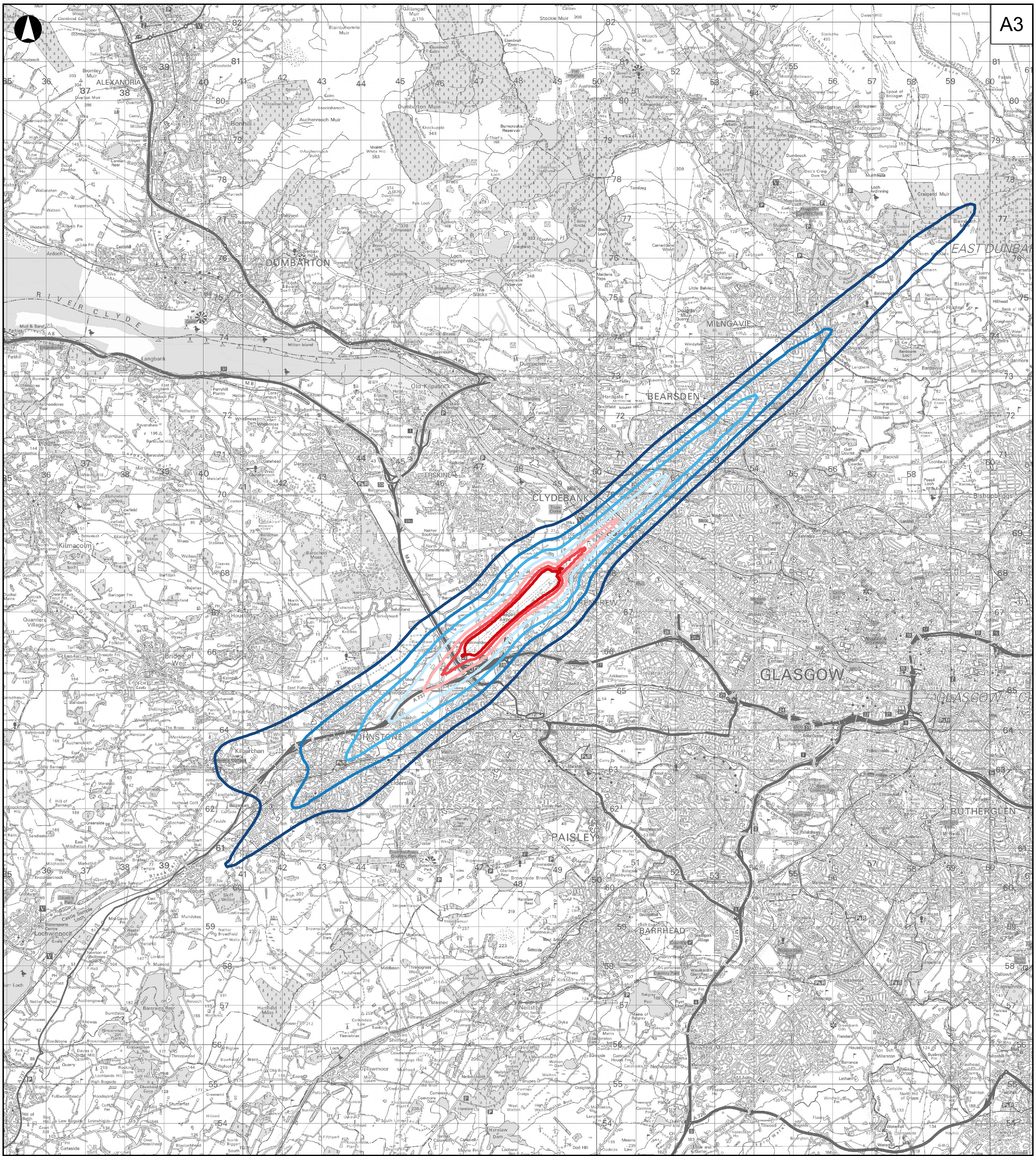
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA76:
2027 With Airspace Change Option 7
92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers

0 1.25 2.5 5

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Client

Glasgow Airport Ltd

Project Name

Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title

**Figure TA77:
2036 With Airspace Change
Option 7
92-day summer daytime $L_{Aeq,16h}$**

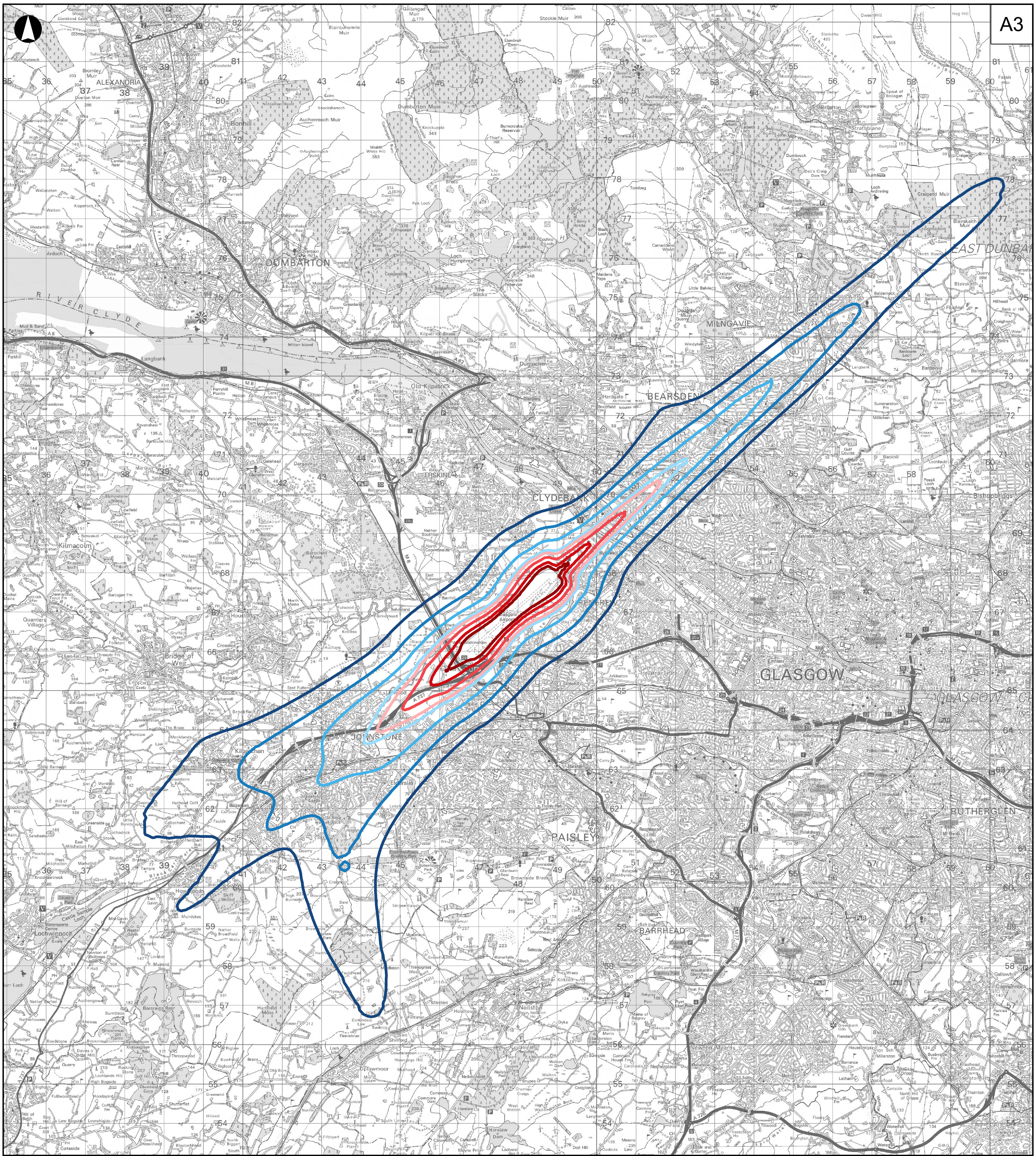
Scale at A3

1:100,000

Suitability

Issue

Project Number	Rev
268771-00	**P01**



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

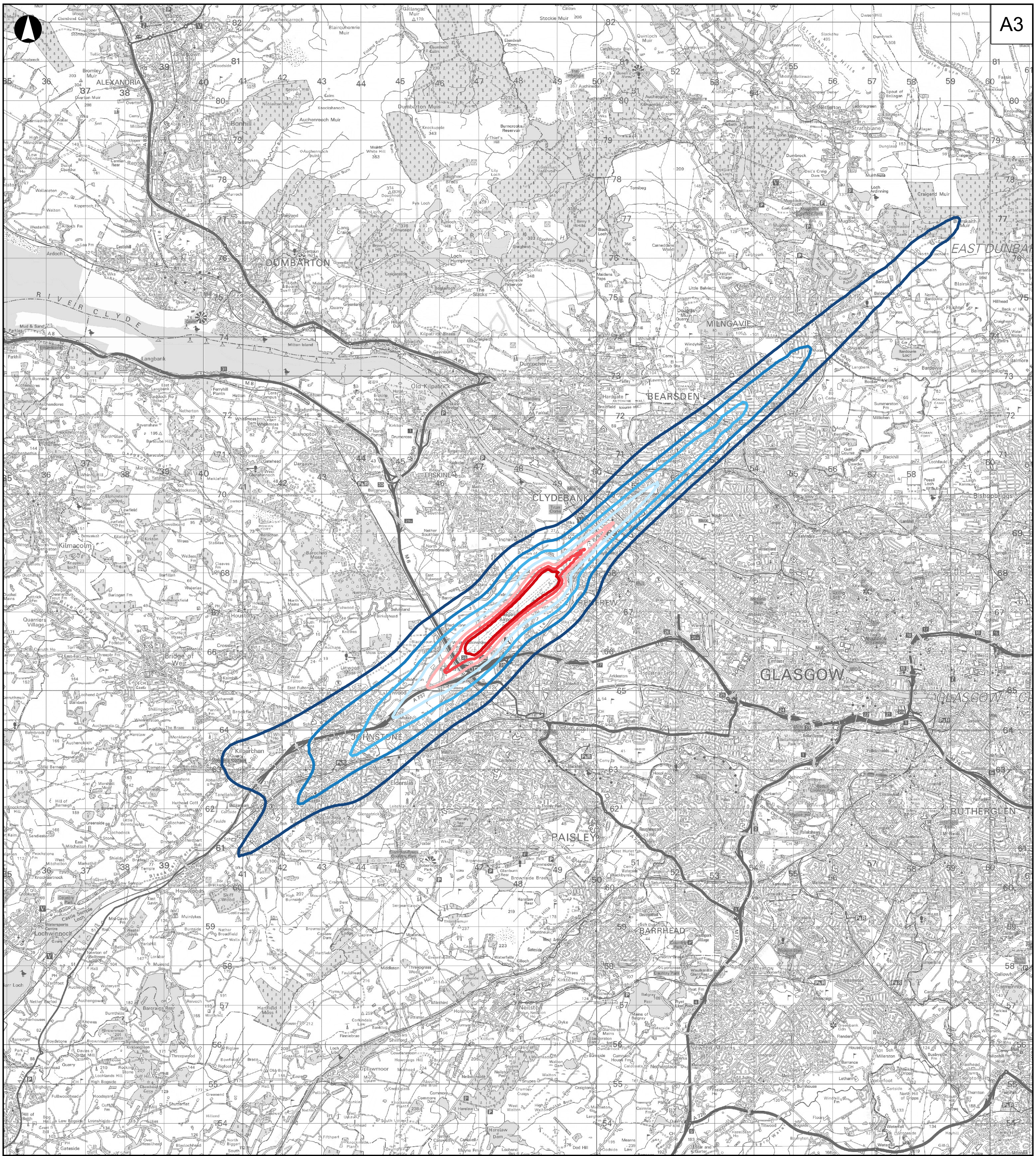
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA78: 2036 With Airspace Change Option 7 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

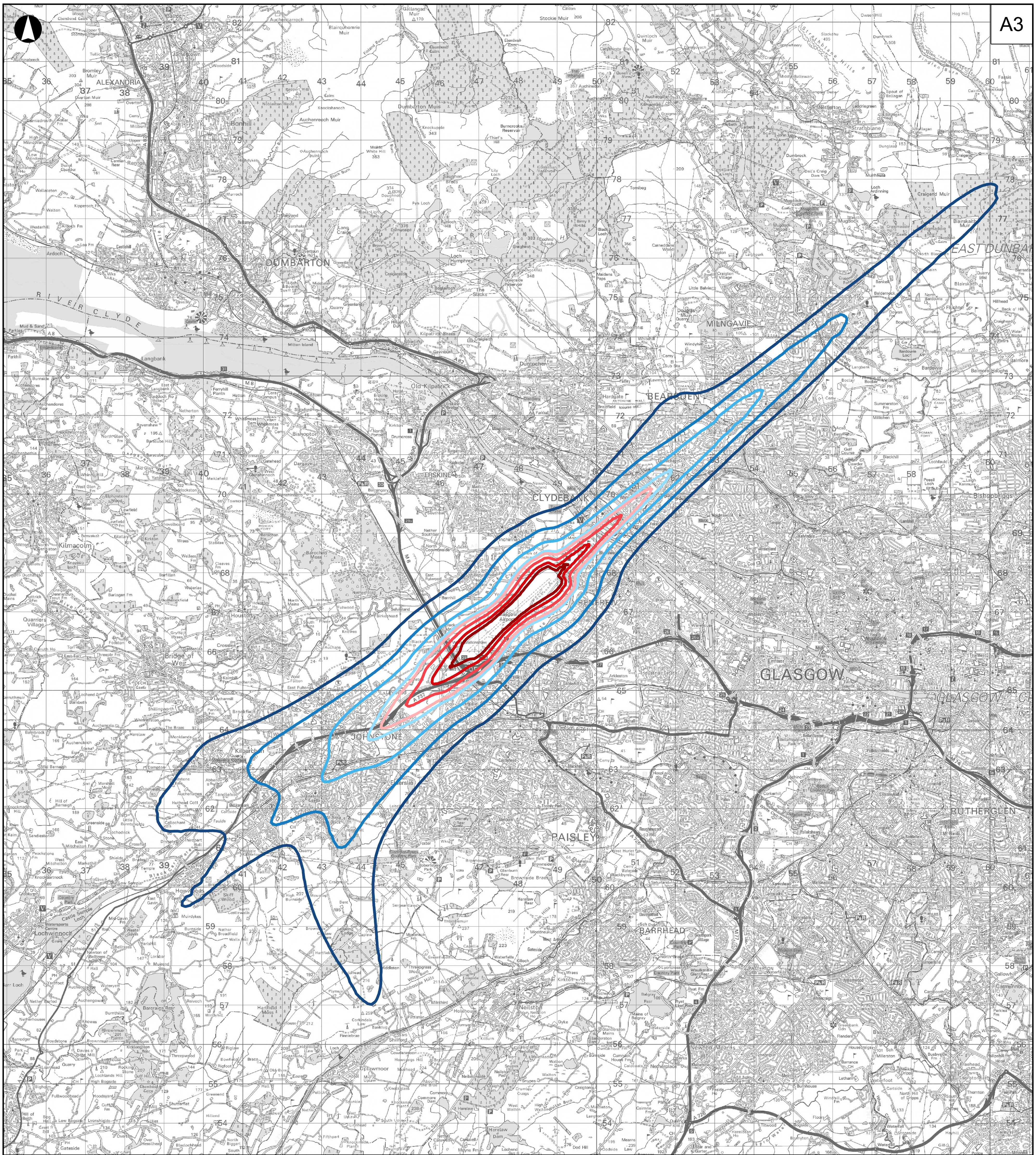
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
**Figure TA79:
2027 With Airspace Change Option 8
92-day summer daytime $L_{Aeq,16h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

Project Name
Glasgow Airport FASI-N Airspace Change Proposal

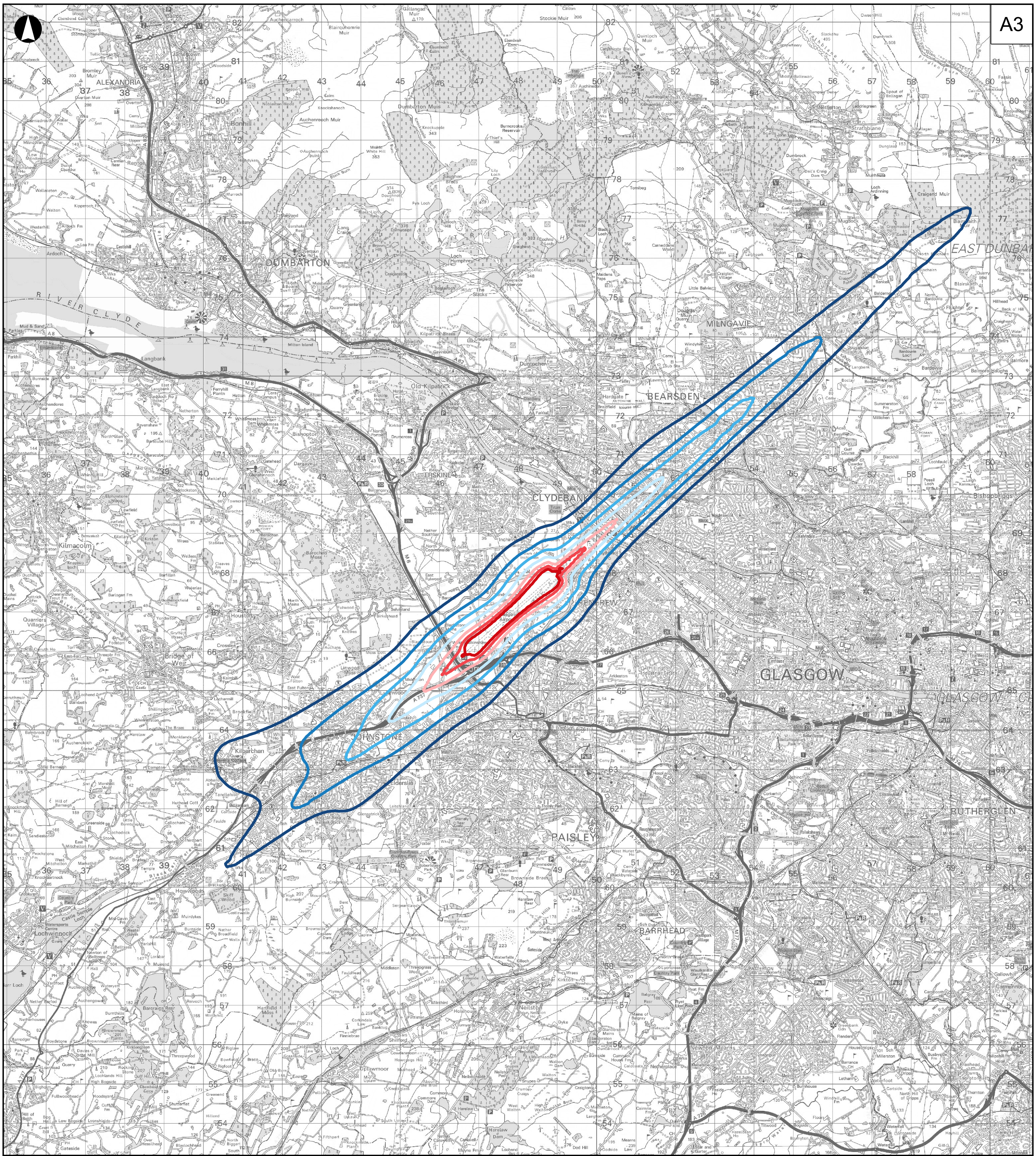
Drawing Title
Figure TA80: 2027 With Airspace Change Option 8 92-day summer night-time $L_{Aeq,8h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number
268771-00

Rev
P01



Legend

- 51dB
- 54dB
- 57dB
- 60dB
- 63dB
- 66dB
- 69dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

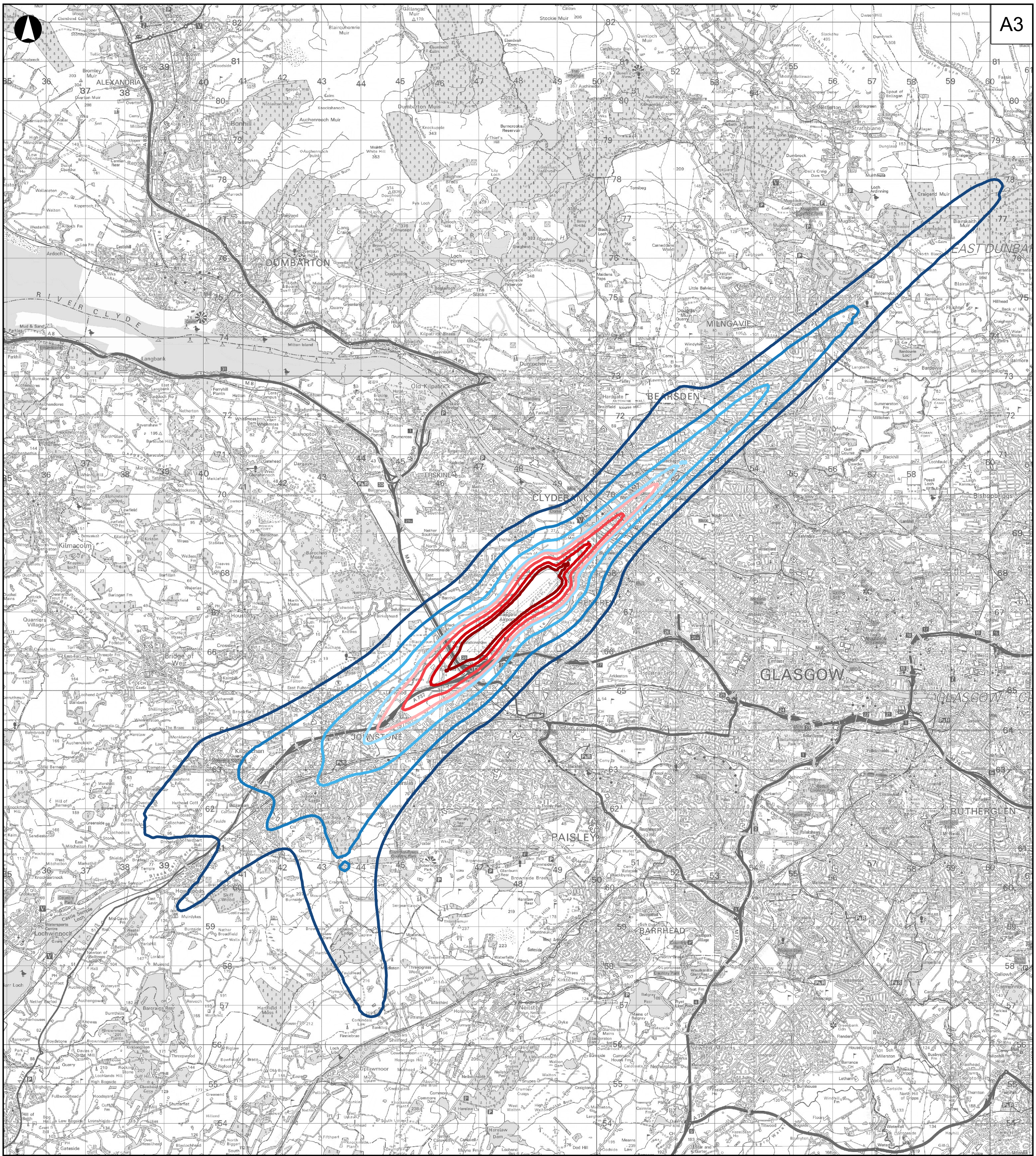
Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
Figure TA81:
2036 With Airspace Change Option 8
92-day summer daytime $L_{Aeq,16h}$

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	**P01**



Legend

- 45dB
- 48dB
- 51dB
- 54dB
- 55dB
- 57dB
- 60dB
- 63dB

Coordinate System: British National Grid

Rev	Date	By	Chkd	Appd	Authd
P01	02/08/24	GL	CS	DH	DH

Kilometers
0 1.25 2.5 5

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Client
Glasgow Airport Ltd

Project Name
Glasgow Airport FASI-N Airspace Change Proposal

Drawing Title
**Figure TA82:
2036 With Airspace Change Option 8
92-day summer night-time $L_{Aeq,8h}$**

Scale at A3
1:100,000

Suitability
Issue

Project Number	Rev
268771-00	P01

FOA data sources and assumptions

Data sources

Data	Source
Historic runway use data	AGS Airports Limited
Current data and forecast schedule data	Trax International Ltd, generated from Electronic Flight Progress Strip Data (EFPS data) from 2022 and Glasgow Airport's long term business plan 5-year traffic predictions
2022 radar track-keeping data	AGS Airports Limited, accessed through BridgeNet International's Volans software
Standard fixed wing aircraft flight performance and noise data	Aircraft Noise and Performance (ANP) Database v2.3 (as implemented in AEDT 3e)
Topographical data	OS Terrain 50
Meteorological data	Iowa Environmental Mesonet
Population and household count data	CACI Ltd
Address data of residential buildings	AddressBase+
Address data of sensitive buildings	PointX
Planned developments	Search of local planning authority websites and emails to the relevant local planning authorities to confirm details of the proposed developments within the area
Fuel burn	Base of Aircraft Data (BADA) version 3.15 and the Senzig-Fleming-Iovinelli (SFI) method (as implemented in AEDT 3e)
Jet fuel price	IATA fuel monitor
Jet fuel to CO2e conversion factor	DESNZ GHG Conversion Factors
Air quality aircraft engine emission factors	International Civil Aviation Organization (ICAO) aircraft engine emissions databank Swedish Defence Research Agency (FOI) database for turboprop engine emissions Swiss Federal Office for Civil Association (FOCA) database for piston engines FOCA guidance on the determination of helicopter emissions
Air Quality Management Area locations	Scottish Government's Air Quality in Scotland website https://www.scottishairquality.scot/
Air quality monitoring data	Glasgow City Council 2023 Air Quality Annual Progress Report Renfrewshire Council 2023 Air Quality Annual Progress Report West Dunbartonshire Council 2023 Air Quality Annual Progress Report
Air quality background concentrations	Scottish Government's Air Quality in Scotland website (NO_x, NO_2, PM_{10}) Defra UK Air Information Resource website ($PM_{2.5}$) https://uk-air.defra.gov.uk/
Candidate Quiet Areas	Glasgow Agglomeration Round 3 Action Plan
National Scenic Areas and National Parks	Scottish Government's catalogue of spatial data https://www.spatialdata.gov.scot/

Country Parks, Gardens and Designated landscapes	Scottish Government's catalogue of spatial data https://www.spatialdata.gov.scot/
European Sites	Scottish Government's catalogue of spatial data https://www.spatialdata.gov.scot/
Delay cost	EUROCONTROL Standard Inputs for Economic Analyses - 16 Cost of delay (ansperformance.eu)

Assumptions

Topic	Assumption
Airspace design options	All airspace design options in this document are subject to change throughout the next stages of the airspace change process as options are matured in detail and refined in accordance with safety requirements and as an outcome of the stage 3 public consultation.
PBN and vectoring	It is assumed that PBN and vectoring would lead to concentration of flight paths along the PBN route however sometimes; in order to achieve safe separation and optimum spacing between aircraft, ATC will still be required to vector aircraft.
Aircraft climb/descent	We expect that in the new airspace design, the majority of Glasgow Airport's arrivals and departures will climb/descend continuously through 7000ft as this is one aspiration of the design
Current day scenario	For noise, overflight and air quality we have defined the current-day scenario as 2022 as this was the latest available data at the time of undertaking the noise modelling. However, for fuel burn and greenhouse gas (GHG) emissions, we are restricted to using 2023 as the current-day scenario due to an interface with NERL ACP and the data generated by NERL. It is important to note that this does not affect the overall assessment of the options themselves as these are calculated based on comparison to a future baseline rather than current-day baseline. The noise and GHG data are also not comparable in any event as the GHG data is annual and the noise data is 92-day summer.
Implementation year	The Scottish Airspace Modernisation ACPs are expected to be implemented in Spring 2027 and therefore this FOA will describe the baseline and the anticipated factors that are expected to impact it, such as any forecast growth, fleet mix changes and planned developments based on implementation in 2027.
Household size – existing households	No household size projections have been applied to the CACI dataset for existing households
Household size – planned developments	A population per dwelling of 2.09 (calculated from the CACI dataset) has been applied to each of the planned developments to estimate the number of individuals in each development.
Missed approaches	At Glasgow Airport there were 108 missed approaches in 2022 which is around 9 per month on average. As missed approaches are operated on an unplanned basis and owing to the low number of missed approaches per year, they do not form part of the noise and environmental analysis of our proposal, however details of the current missed approaches and proposed future

Topic	Assumption
	missed approaches are included as part of the option description and have been considered as part of the safety and operability assessments.
Increase in forecast movements	The options within the ACP do not enable any increase in forecast movements at Glasgow Airport and therefore the traffic forecast applied 'without ACP' is the same as 'with ACP'. Note that although the capacity assessments highlight improvements compared to the 'without airspace change' scenario, this is based around departure delay and reduced airborne holding. This means the 'with airspace change' scenarios accommodate expected growth without undue delay, hence the number of flights in the 'with airspace change' and 'without airspace change' scenarios are the same - they would just be subject to different amounts of delay.
92-day summer modal split	20 year average (2003 – 2022) of 77% runway 23, 23% runway 05
Annual modal split	20 year average (2003 – 2022) of 74% runway 23, 26% runway 05
Helicopters	A small percentage of movements to and from Glasgow Airport are from helicopter traffic (approximately 2-3%) When arriving or departing from Glasgow Airport, there are no specific helicopter routes although some helicopters may make use of the final approach procedures but would not make use of the SIDs and Approach Transitions. For helicopters following Visual Flight Rules (VFR), whenever possible helicopter flights in the Glasgow CTR/CTA will be cleared on direct routeings under VFR (or, when requested at night in the Glasgow Control Zone, on Special VFR clearance in accordance with the procedures for Special VFR flights). As such, this ACP does not propose to make any changes to the way helicopters arrive / depart. Helicopters have therefore not been included in the noise and greenhouse gas emissions assessments as is standard practice for airspace change assessments where the helicopter routes are not affected. However, as the methodology for undertaking air quality assessments for airspace change is less documented, helicopters have been included in the air quality assessment as a worst-case.
AEDT version 3e	All noise modelling has been conducted using the Federal Aviation Administration's (FAA) Aviation Environmental Design Tool (AEDT) version 3e. AEDT is identified in CAP1616i as a "recognised and validated noise model" (paragraph 5.7). Version 3e was the current version at the time of starting the environmental modelling. The use of Version 3e is therefore consistent with how the FAA expects version control of AEDT to be used in practice, with the FAA memorandum on version control[1] noting that the version of AEDT that should be used is the latest approved version at the time where the environmental

[1] Federal Aviation Authority (2017), Memorandum: Guidance on determining which version of the Aviation Environmental Design Tool (AEDT) to use for FAA actions and studies.

Topic	Assumption
	analysis is initiated. Since the release of version 3e there have been two updates to AEDT that primarily make improvements to the calculations of ground-based emissions and the updates would not be expected to affect the conclusions of the FOA. For analysis in the Final Options Appraisal, the latest version of AEDT at the time of commencing the Final Options Appraisal will be used.
Lateral dispersion assumptions for PBN arrivals	Lateral dispersion assumptions for PBN arrivals and departures are a conservative estimate based on professional judgement, informed by track data for two airports with RNAV1 SIDS. Whilst this is not necessarily a direct correlation to PBN approaches and there is an absence of RF data, it has been used to help inform expected dispersion. For arrivals, this corresponds to a maximum dispersion of +/- 0.50 nm for fly-by turns, +/- 0.30 nm for RF curves, and +/- 0.10 nm on straight segments including final approach. For departures, this corresponds to a maximum dispersion of +/- 0.25 nm for RNAV1 curves, +/- 0.15 for RF curves and +/- 0.10 nm on straight segments.
Vectoring assumptions	For options that include a combination of vectoring and PBN arrivals (Options 5 – 8), the proportion of vectoring that has been assumed in the noise modelling is summarised in figure 37 of the FOA. These assumptions are based on information gathered as part of detailed Air Traffic Control development simulations and through input from ATC and aviation experts.
propellor aircraft with a maximum take-off weight (MTOW) below 5,700kg	Currently, any departing propellor aircraft with a maximum take-off weight (MTOW) below 5,700kg are allowed to vector early off their SID at any time. Propeller aircraft with a MTOW under 23,000kg are permitted to do the same during daytime hours. In both the current day and future 'without airspace change' scenarios, this early vectoring is factored into the lateral dispersion assumptions, which are calculated from the 2022 track data as described above. Following discussions with Glasgow Airport and Air Traffic Control (ATC), it has been confirmed that these categories of aircraft will continue to be allowed to vector early post-airspace change. This has been accounted for in the 'with airspace change' noise and overflight modelling by utilising the lateral dispersion assumptions from the baseline scenario for all propellor aircraft with a MTOW below 5,700kg and 80% of all propellor aircraft with a MTOW below 23,000kg. The remaining 20% of propeller aircraft with a MTOW under 23,000kg are assumed to adhere to the 'with airspace changes' SIDs, using the PBN lateral dispersion assumptions outlined above.
Air quality - $PM_{2.5}$ emissions	In relation to $PM_{2.5}$ emissions, the EMEP/EEA guidebook[2] states that, *"it is reasonable to assume that for aircraft, the particulate matter emissions can be considered as $PM_{2.5}$"*. Therefore, it was

[2] European Environment Agency EMEP/EEA (2023) Air Pollutant Emission Inventory Guidebook 2023 Technical Guidance to Prepare National Emission Inventories.

Topic	Assumption
	assumed that all particulate matter emissions from aircraft engines were in the $PM_{2.5}$ fraction.
Air quality - aircraft spatial changes below 1,000 ft AAL	Departure and arrival centrelines, along with the typical lateral dispersion around the centrelines, have been calculated for the 2022 baseline, using radar-track data. The median vertical centreline was used to determine the ground distance that would be reached at 1,000 ft AAL. This calculated ground distance was then used to determine whether arrival and departure Options would change laterally before 1,000 ft AAL in the first step of the assessment. It was assumed that the vertical profile remained the same as the 2022 baseline for this step. For the dispersion modelling, more detailed vertical profiles were taken from AEDT to provide a robust assessment.
Air quality - aircraft emissions	The proportion of PM_{10} assumed to be $PM_{2.5}$ was 100%. The calculation of emissions was in accordance with ADMS-Airports and ICAO guidance, with respect to the use of MCATs, thrust settings and emission factors. Speeds and time in modes (TIMs) were taken from AEDT.
Air quality - NOx to NO_2	The method taken for this conversion in the assessment follows a very conservative assumption that 100% of NOx is converted to NO_2.
Air quality – background concentrations	Future background concentrations are expected to improve due to technological advances and improvements in vehicle and aircraft emissions. However, this assessment assumed no continued improvement in future backgrounds from the 2022 baseline to provide a reasonable worst-case assessment.
	Modelled aircraft emissions ('without airspace change' and 'with airspace change') were added to the background concentrations to estimate the total concentrations as a result of all sources in the ('without airspace change' and 'with airspace change' scenarios. However, the background concentrations used already includes a 2022 predicted contribution from the airport, and therefore there will be a minor overestimation in the airport contribution to the total concentrations, as a result of double counting. This is approach has been used to provide a conservative assessment.

Topic	Assumption
Air quality - model parameters	The extent of mechanical turbulence (and hence mixing) in the atmosphere is affected by the surface/ground over which the air is passing. Typical surface roughness values range from 0.0001m (for water or sandy deserts) to 1.5m (for cities, forests and industrial areas). In this assessment, a surface roughness of 0.5m (for open suburbia) was applied to the study area and meteorological site at the airport. Another model parameter is the minimum Monin-Obukhov length, which describes the minimum level of turbulence in the atmosphere, which is limited due to the urban heat island effect. Typical values range from 1m to 10m for rural and sparsely populated areas. In urban area, where traffic and buildings cause the generation and/or retention of more heat, these values are higher. In this assessment, a minimum length of 30m was used to represent an urban area. These values are considered suitable for the assessment area.
Ground delay	The model used for this analysis assumes that changing runway, SID design, or varying tactical aircraft separations has no impact to arrival runway delay, as arrivals are prioritised based on demand