



**Dublin Airport North Runway
Relevant Action Application**

Environmental Impact Assessment Report

**Technical Appendices (Volume II)
Aircraft and Ground Noise Figures**

December 2020

18-12-2020F 20A/0668
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LEGEND:

- Category A&B Aircraft
Departure Route Centrelines
- Category C&D Aircraft
Departure Route Centrelines
- ← Arrival Routes

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**Figure 13B-2
Main Runway Modelled Routes
Current**

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FIGURE No:

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Figure 13B-3
Main Runway Modelled Routes
Future Segregated Mode

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- Category C&D Aircraft
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- ← Arrival Routes

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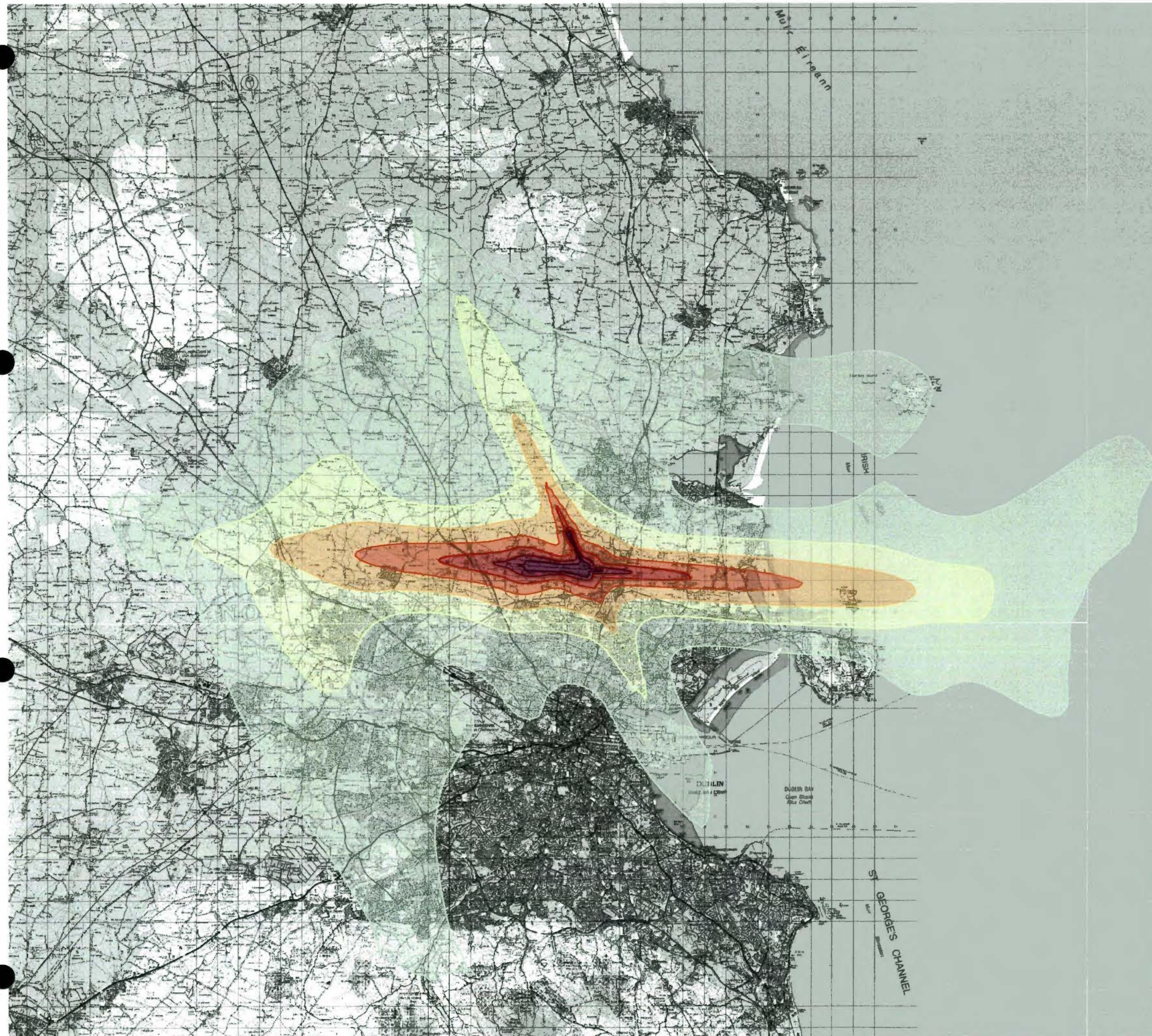
**Figure 13B-4
Main Runway Modelled Routes
Future Mixed Mode**

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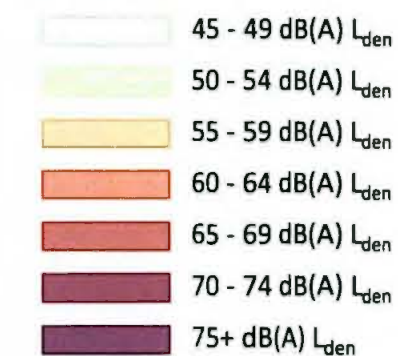
FIGURE No:

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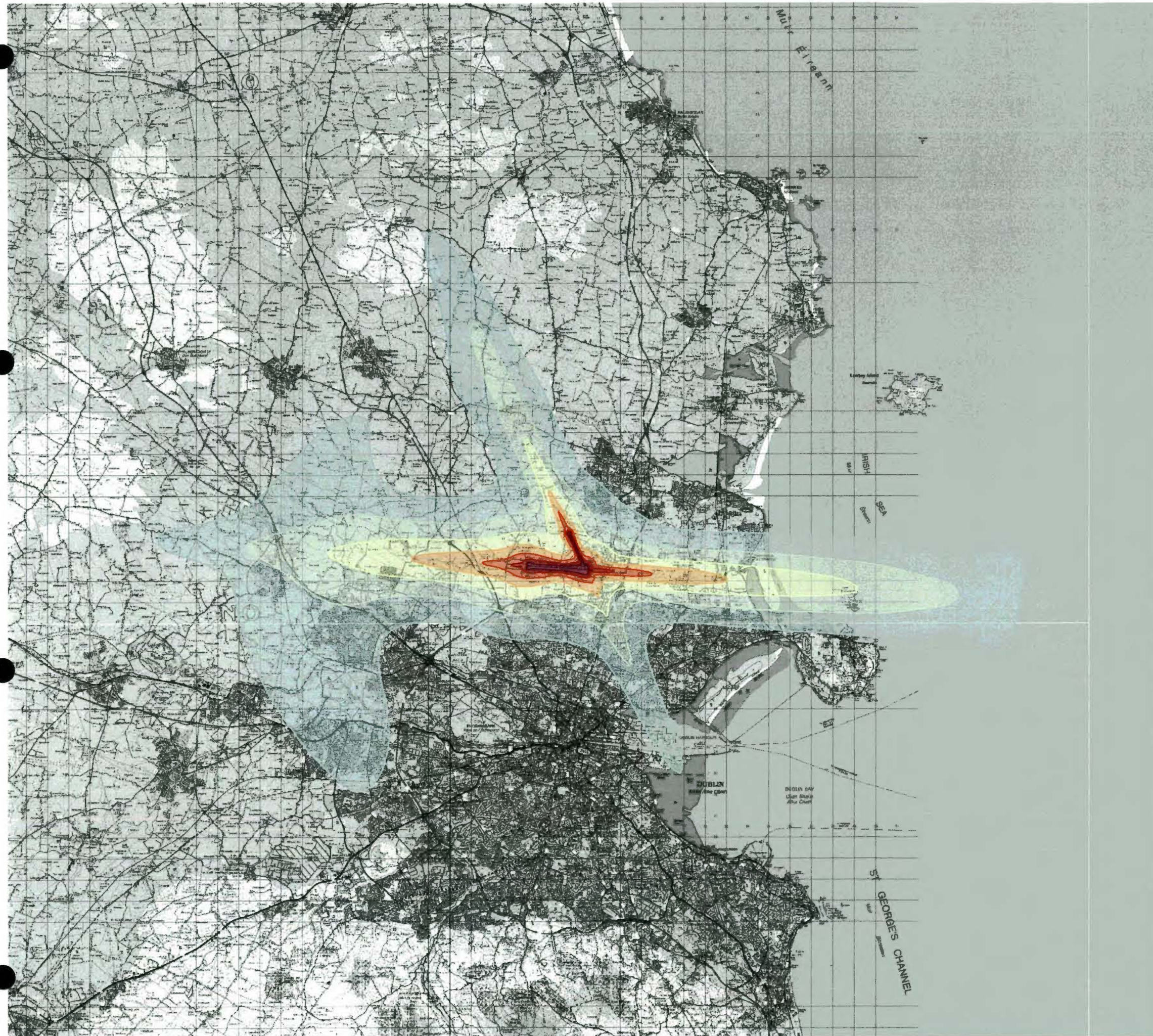
Actual Lden Noise Contours
2018 Baseline
Figure 13C-1

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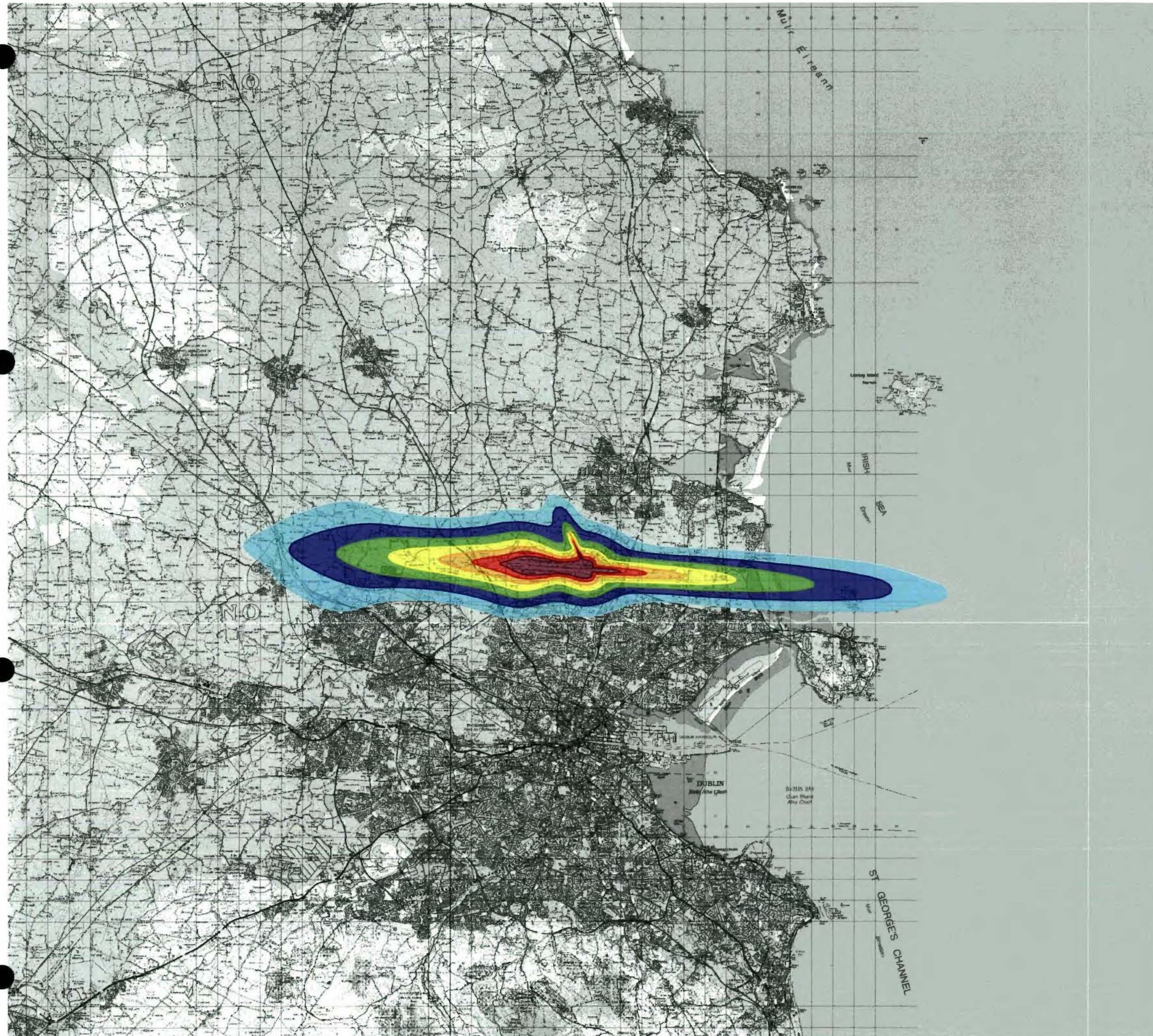
Actual Night Noise Contours
2018 Baseline
Figure 13C-2

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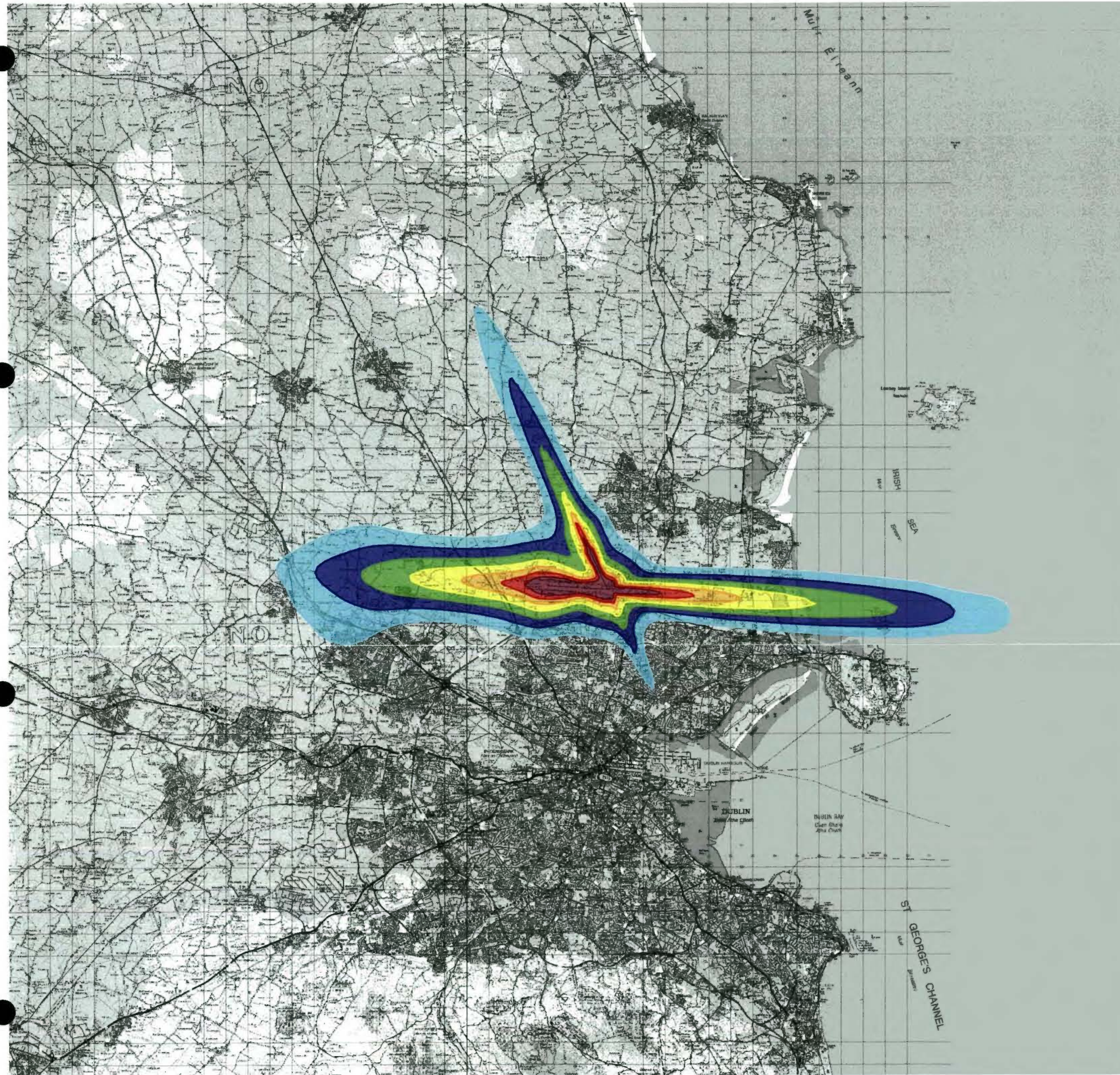
Actual Summer Day Noise Contours
2018 Baseline
Figure 13C-3

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LEGEND:

- 45 - 47 dB(A) $L_{Aeq,8h}$
- 48 - 50 dB(A) $L_{Aeq,8h}$
- 51 - 53 dB(A) $L_{Aeq,8h}$
- 54 - 56 dB(A) $L_{Aeq,8h}$
- 57 - 59 dB(A) $L_{Aeq,8h}$
- 60 - 62 dB(A) $L_{Aeq,8h}$
- 63+ dB(A) $L_{Aeq,8h}$

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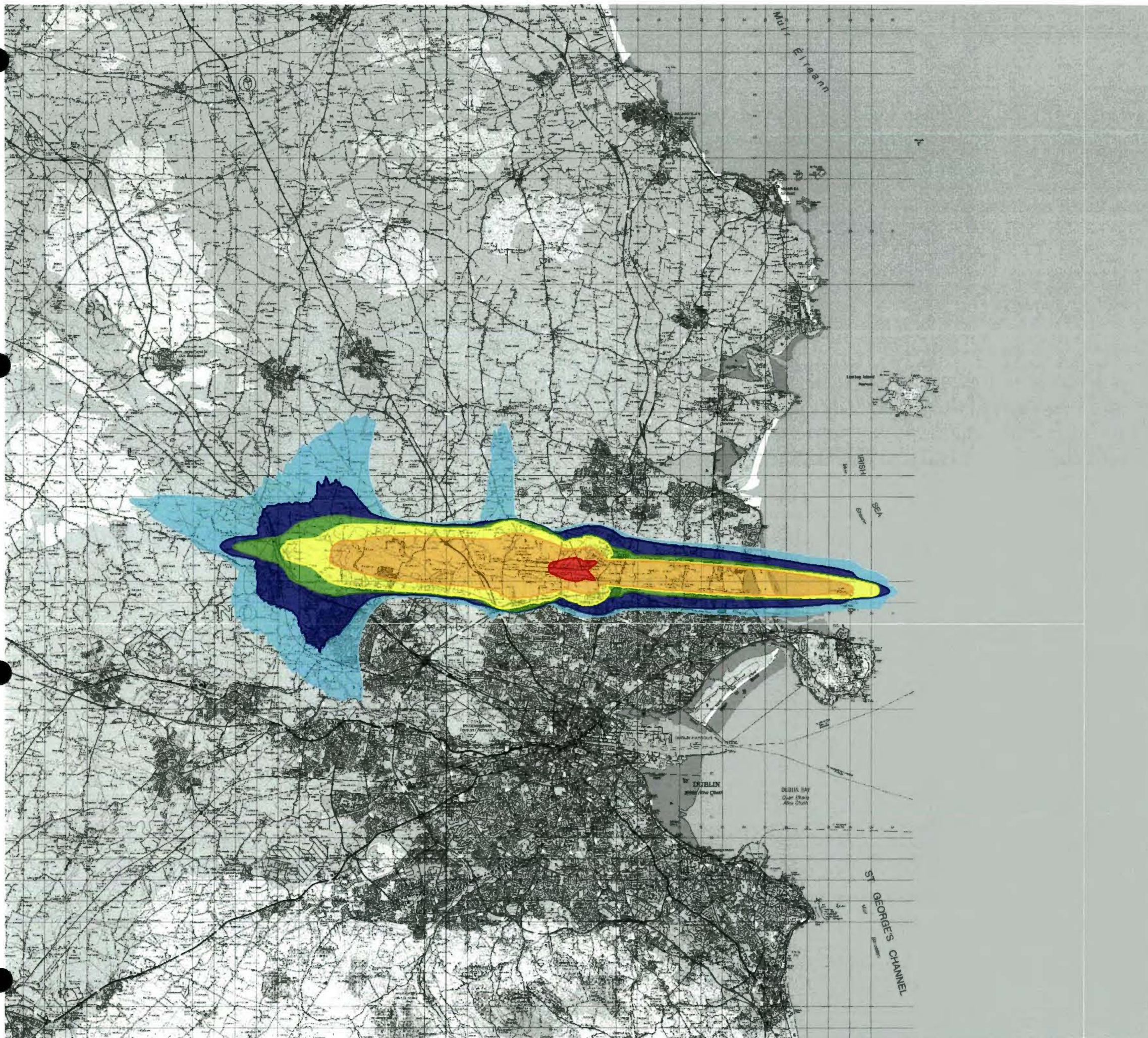
Actual Summer Night Noise Contours
2018 Baseline
Figure 13C-4

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LEGEND:

- 10 N65
- 25 N65
- 50 N65
- 100 N65
- 200 N65
- 500 N65

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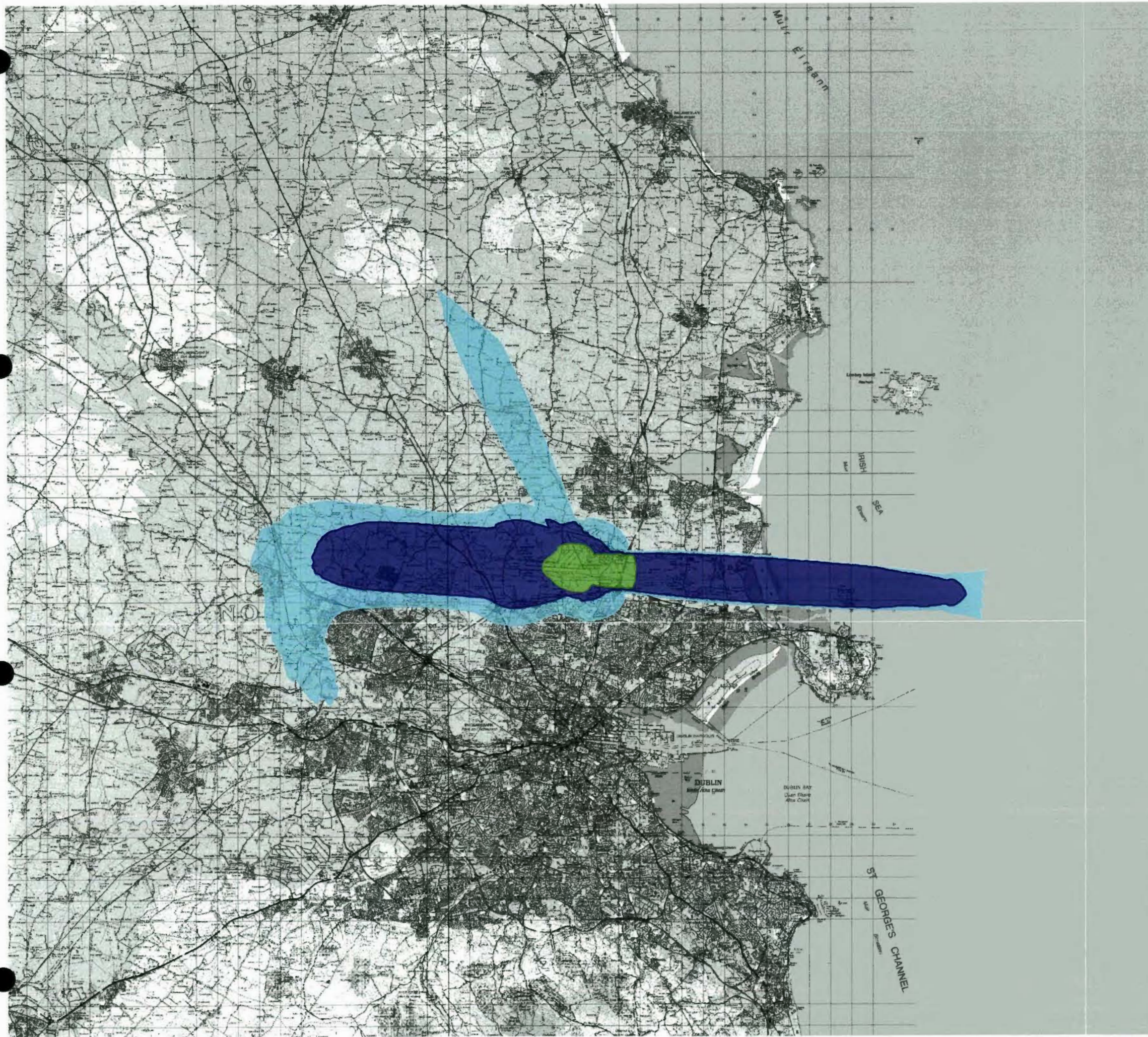
Actual Summer Day N65 Noise Contours
2018 Baseline
Figure 13C-5

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LEGEND:

- 10 N60
- 25 N60
- 50 N60

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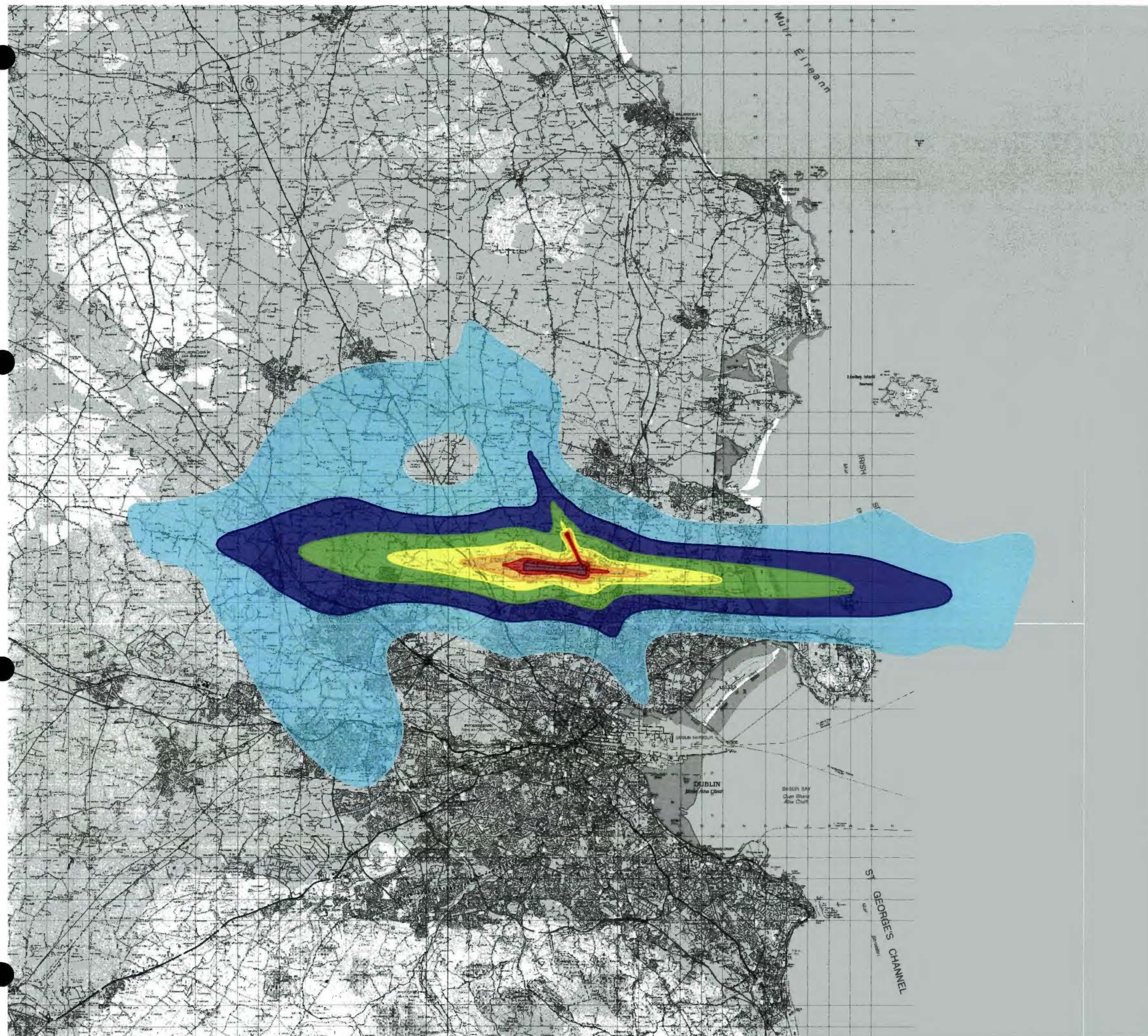
Actual Summer Night N60 Noise Contours
2018 Baseline
Figure 13C-6

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LEGEND:

- 45 - 49 dB(A) L_{day}
- 50 - 54 dB(A) L_{day}
- 55 - 59 dB(A) L_{day}
- 60 - 64 dB(A) L_{day}
- 65 - 69 dB(A) L_{day}
- 70 - 74 dB(A) L_{day}
- 75+ dB(A) L_{day}

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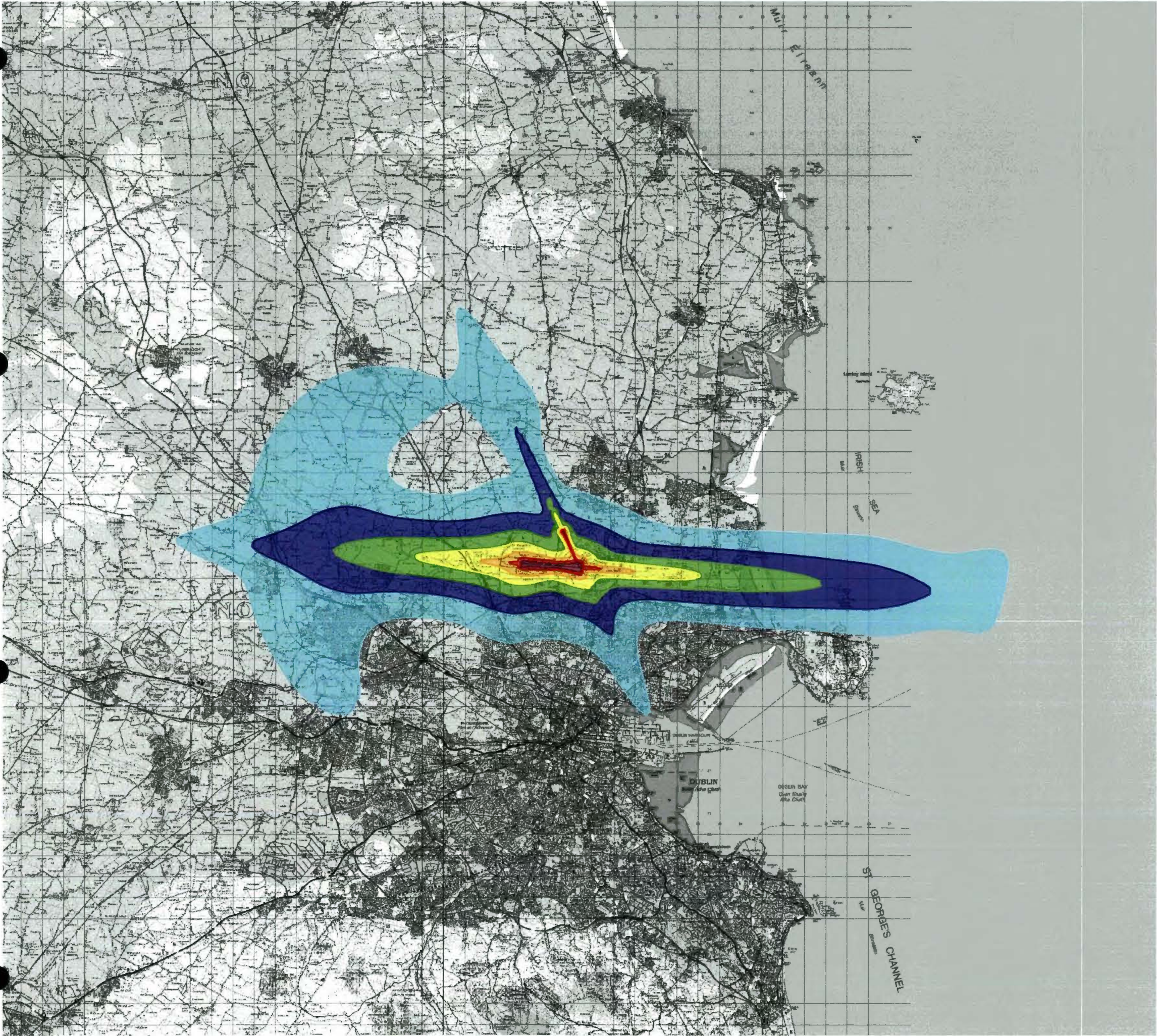
Actual Lday Noise Contours
2018 Baseline
Figure 13C-7

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LEGEND:

- 45 - 49 dB(A) L_{evening}
- 50 - 54 dB(A) L_{evening}
- 55 - 59 dB(A) L_{evening}
- 60 - 64 dB(A) L_{evening}
- 65 - 69 dB(A) L_{evening}
- 70 - 74 dB(A) L_{evening}
- 75+ dB(A) L_{evening}

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Actual Levening Noise Contours
2018 Baseline
Figure 13C-8

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 Air Noise Study Area

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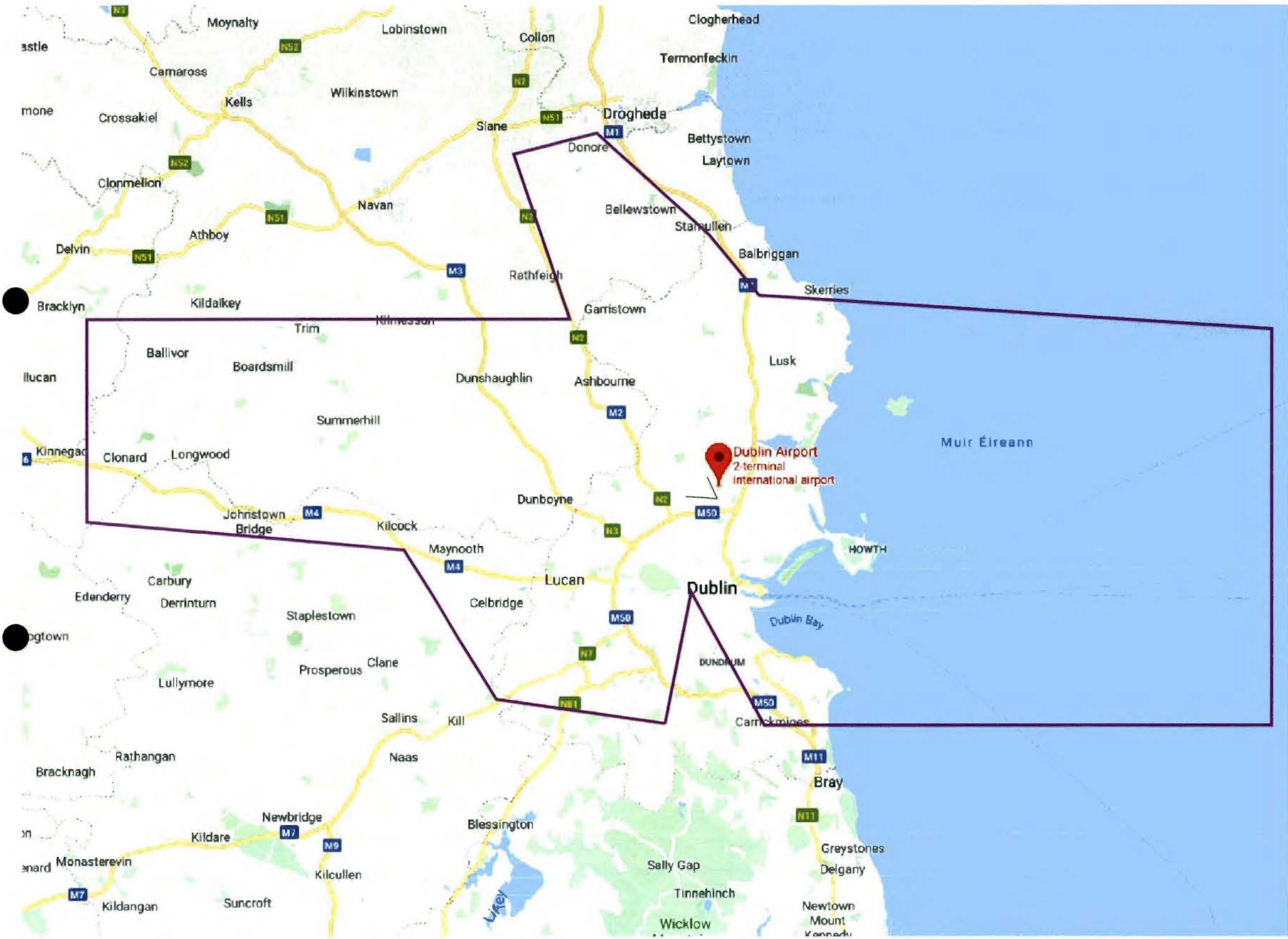
Figure 13B-1
Air Noise Study Area

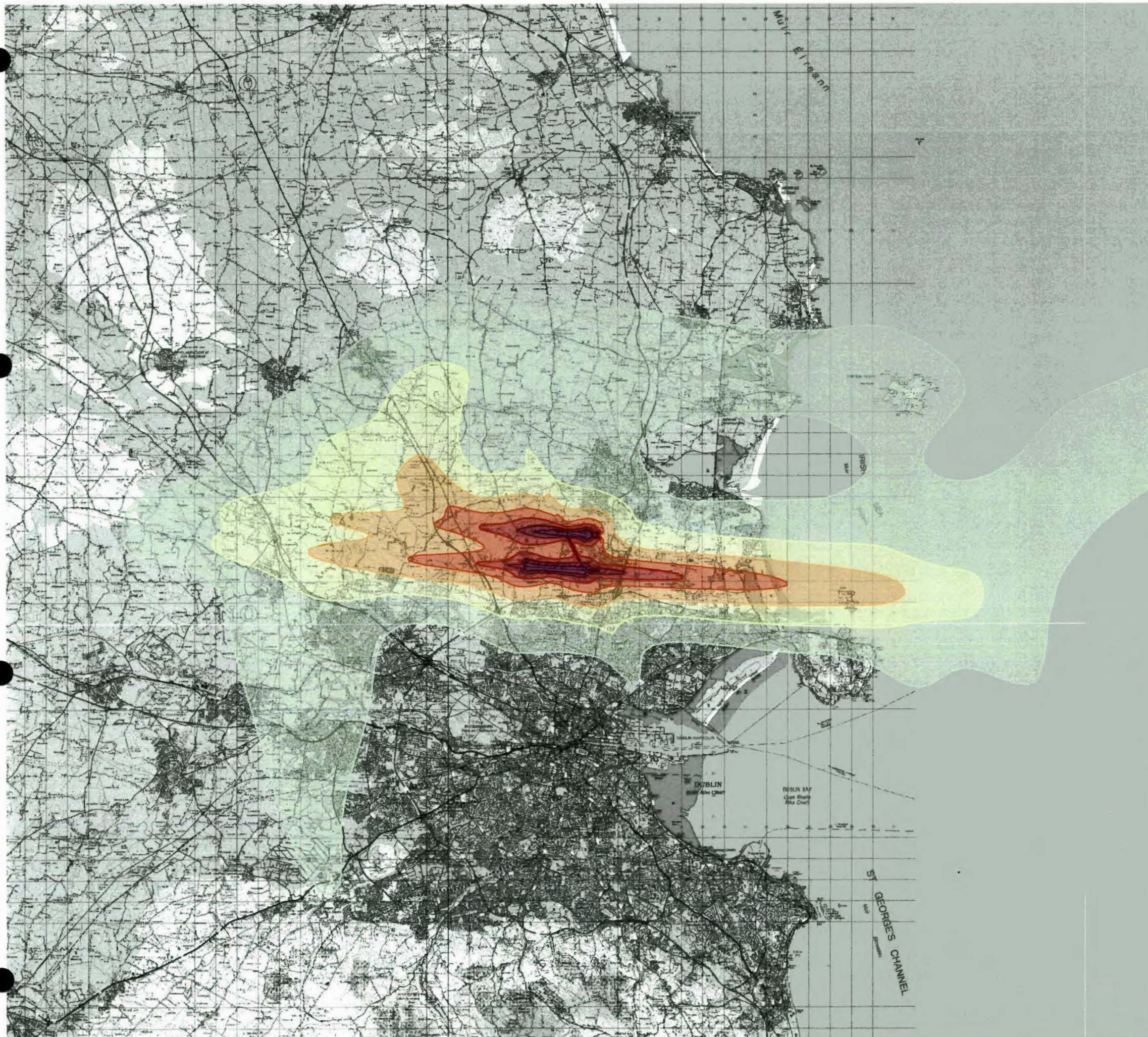
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FIGURE No:

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LEGEND:

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	50 - 54 dB(A) L_{den}
	55 - 59 dB(A) L_{den}
	60 - 64 dB(A) L_{den}
	65 - 69 dB(A) L_{den}
	70 - 74 dB(A) L_{den}
	75+ dB(A) L_{den}

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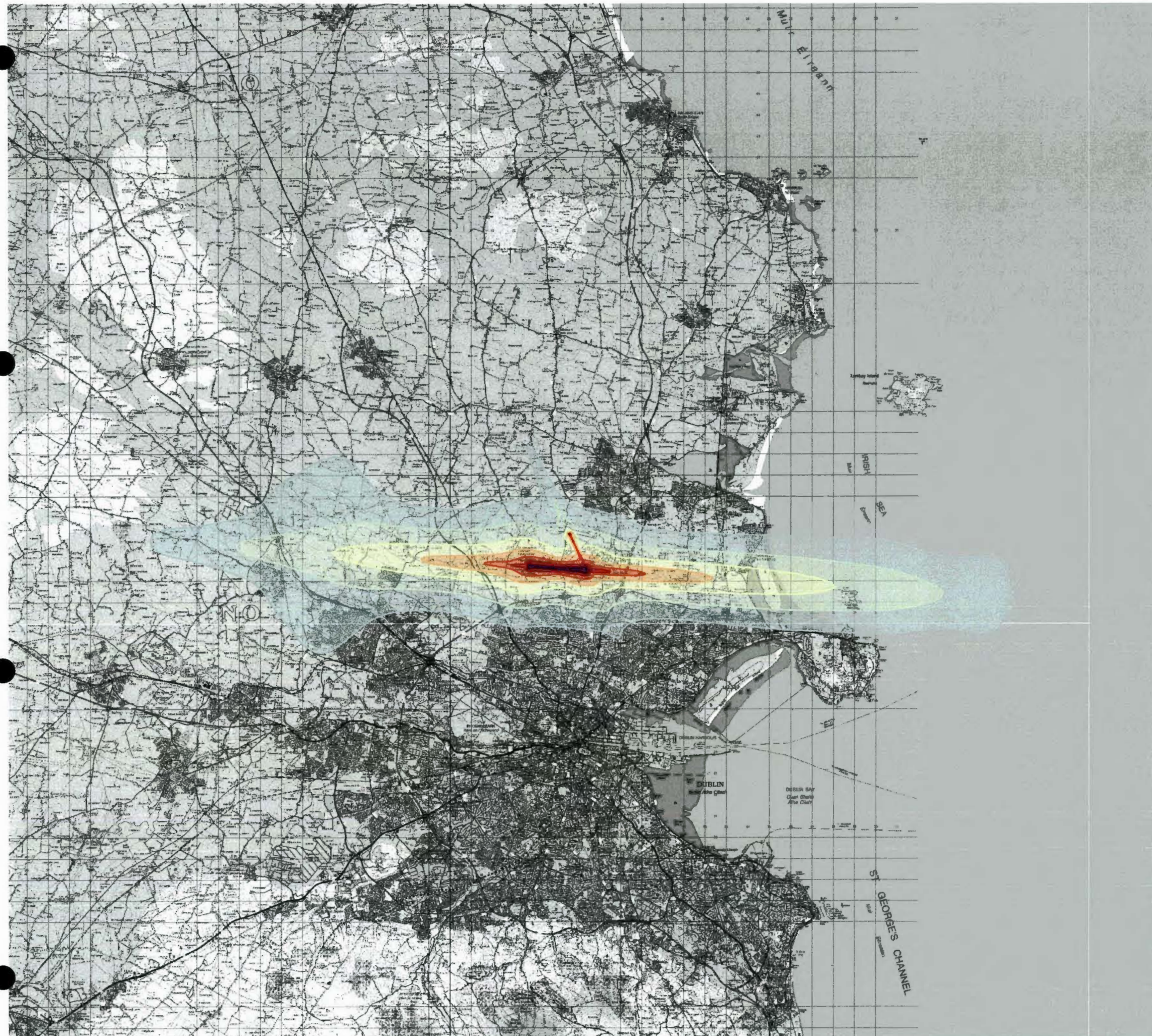
Forecast Lden Noise Contours
2022 Baseline
Figure 13C-9

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Forecast Night Noise Contours
2022 Baseline
Figure 13C-10

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LEGEND:

- 51 - 53 dB(A) $L_{Aeq,16h}$
- 54 - 56 dB(A) $L_{Aeq,16h}$
- 57 - 59 dB(A) $L_{Aeq,16h}$
- 60 - 62 dB(A) $L_{Aeq,16h}$
- 63 - 65 dB(A) $L_{Aeq,16h}$
- 66 - 68 dB(A) $L_{Aeq,16h}$
- 69+ dB(A) $L_{Aeq,16h}$

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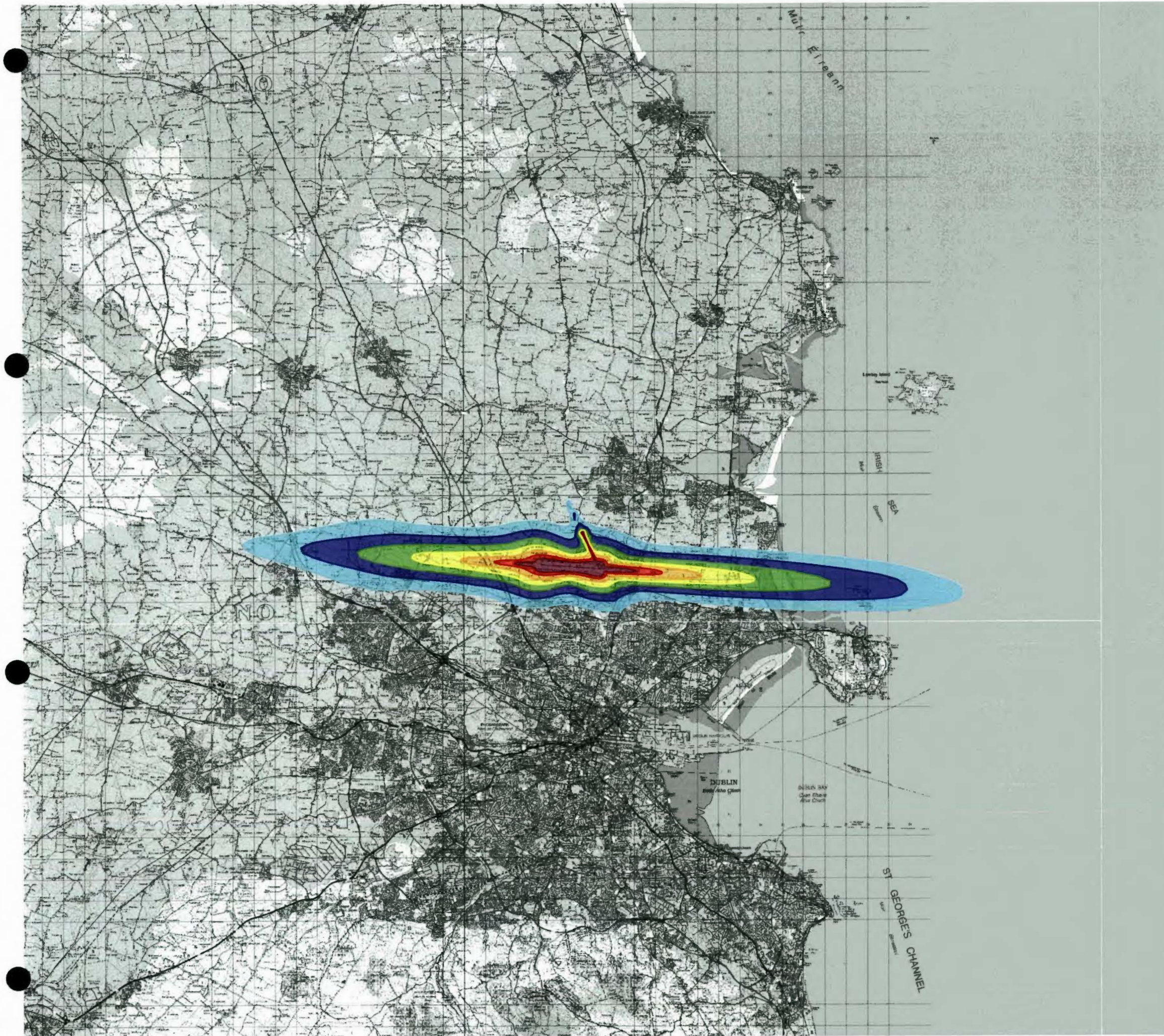
Forecast Summer Day Noise Contours
2022 Baseline
Figure 13C-11

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LEGEND:

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- 48 - 50 dB(A) $L_{Aeq,8h}$
- 51 - 53 dB(A) $L_{Aeq,8h}$
- 54 - 56 dB(A) $L_{Aeq,8h}$
- 57 - 59 dB(A) $L_{Aeq,8h}$
- 60 - 62 dB(A) $L_{Aeq,8h}$
- 63+ dB(A) $L_{Aeq,8h}$

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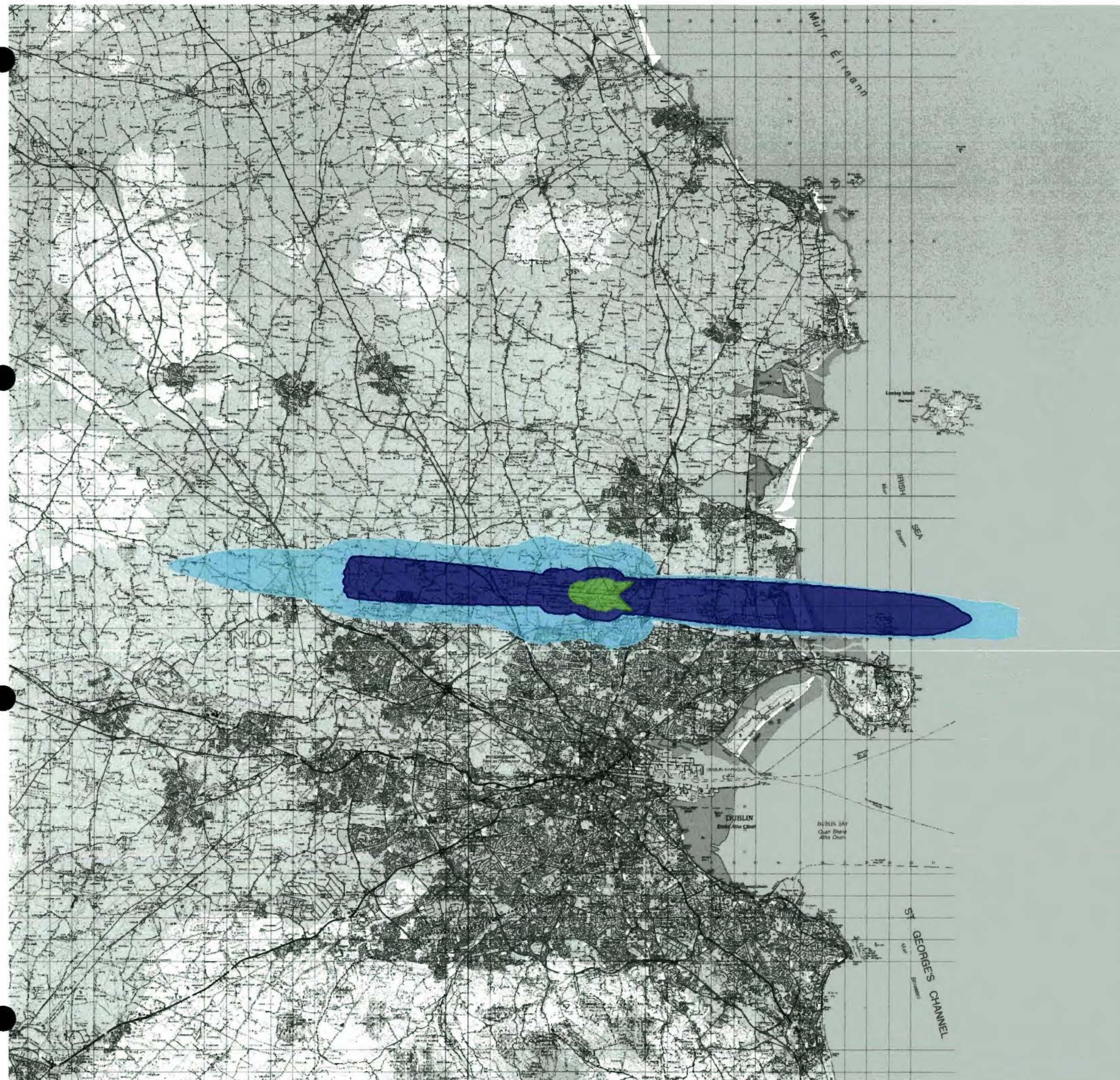
Forecast Summer Night Noise Contours
2022 Baseline
Figure 13C-12

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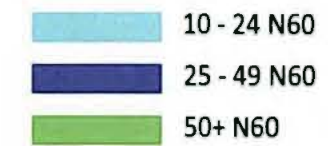
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Forecast Summer Night N60 Noise Contours
2022 Baseline
Figure 13C-14

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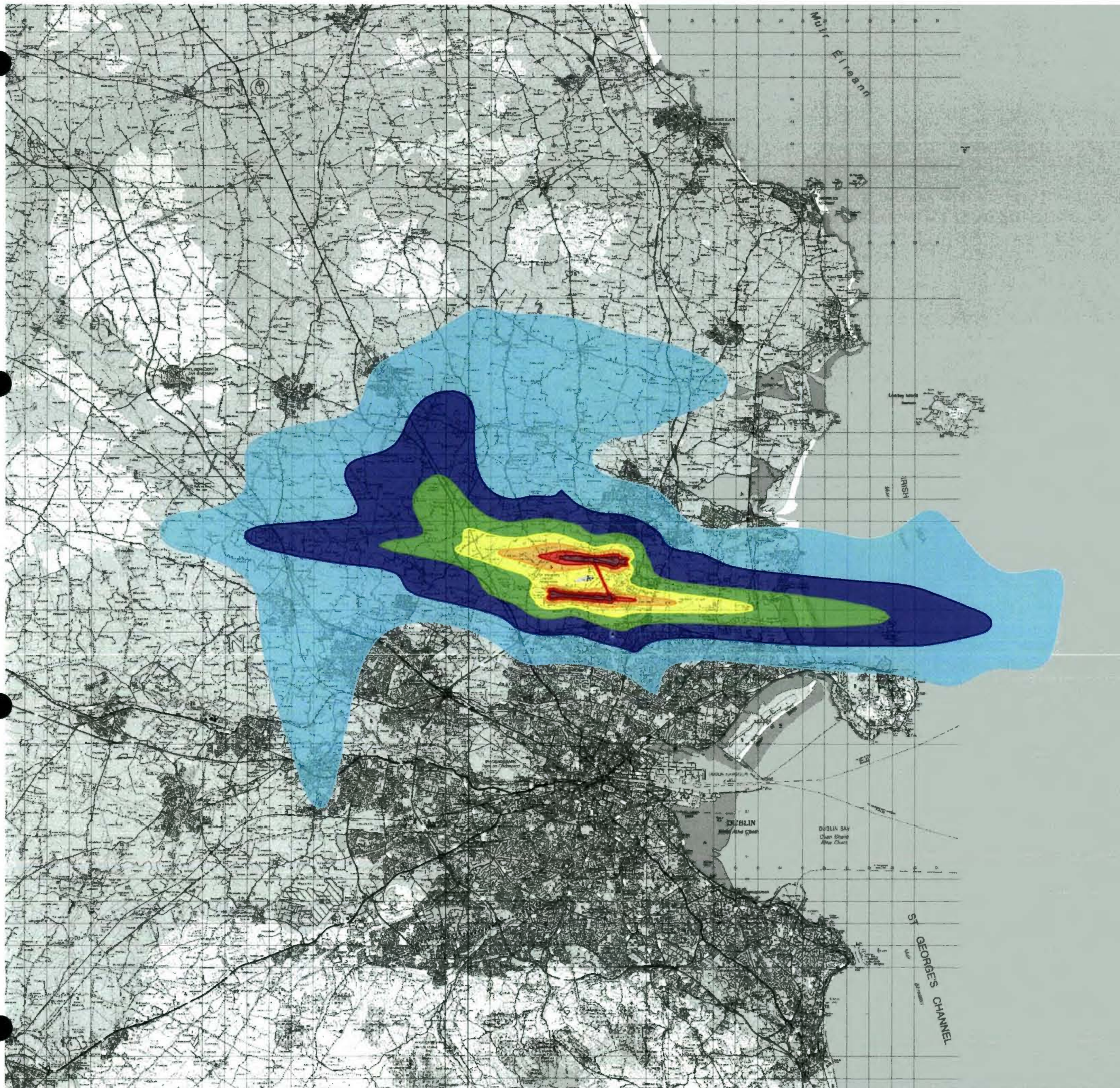
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LEGEND:

- 45 - 49 dB(A) L_{day}
- 50 - 54 dB(A) L_{day}
- 55 - 59 dB(A) L_{day}
- 60 - 64 dB(A) L_{day}
- 65 - 69 dB(A) L_{day}
- 70 - 74 dB(A) L_{day}
- 75+ dB(A) L_{day}

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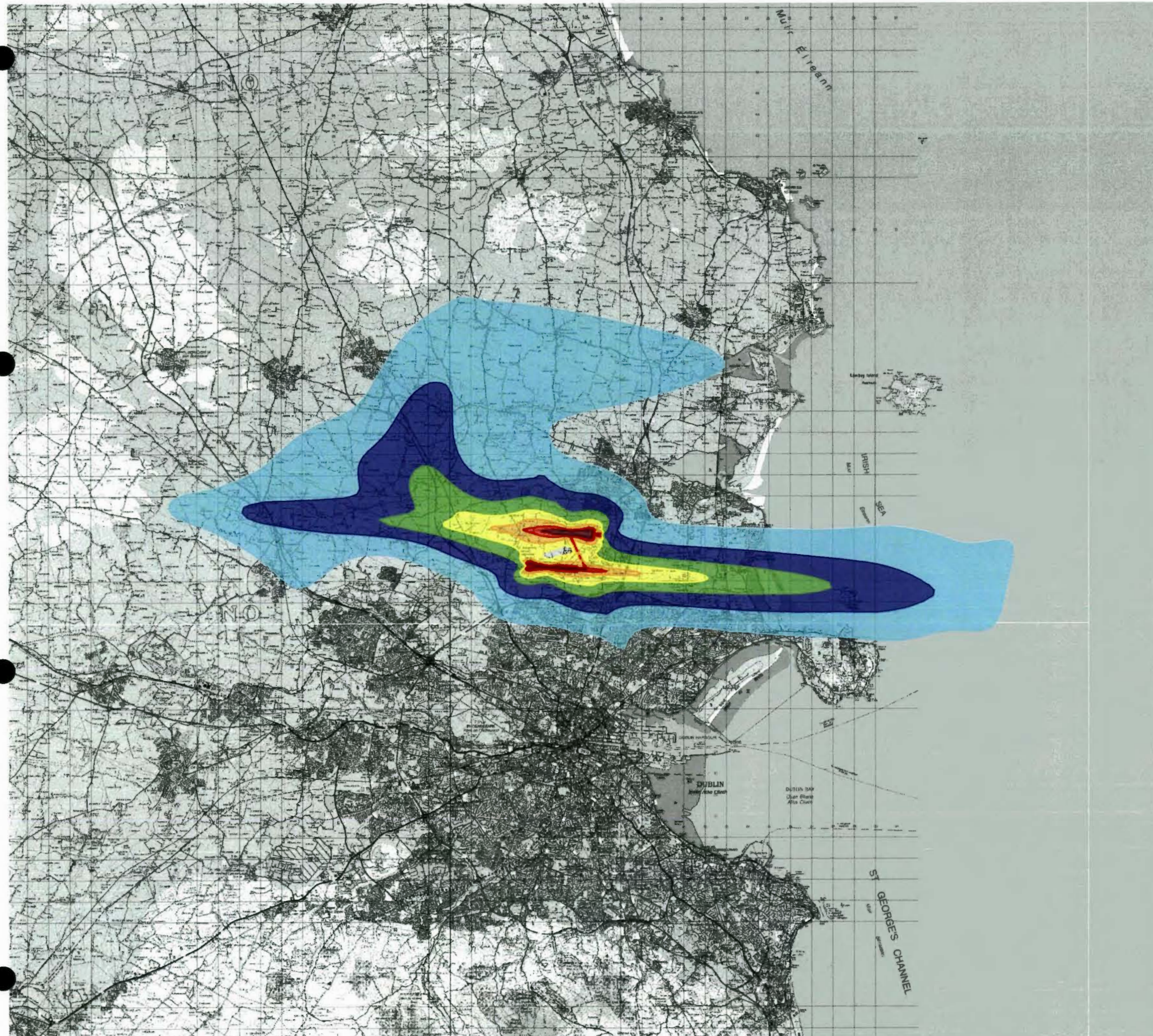
Forecast Lday Noise Contours
2022 Baseline
Figure 13C-15

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LEGEND:

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- 50 - 54 dB(A) L_{evening}
- 55 - 59 dB(A) L_{evening}
- 60 - 64 dB(A) L_{evening}
- 65 - 69 dB(A) L_{evening}
- 70 - 74 dB(A) L_{evening}
- 75+ dB(A) L_{evening}

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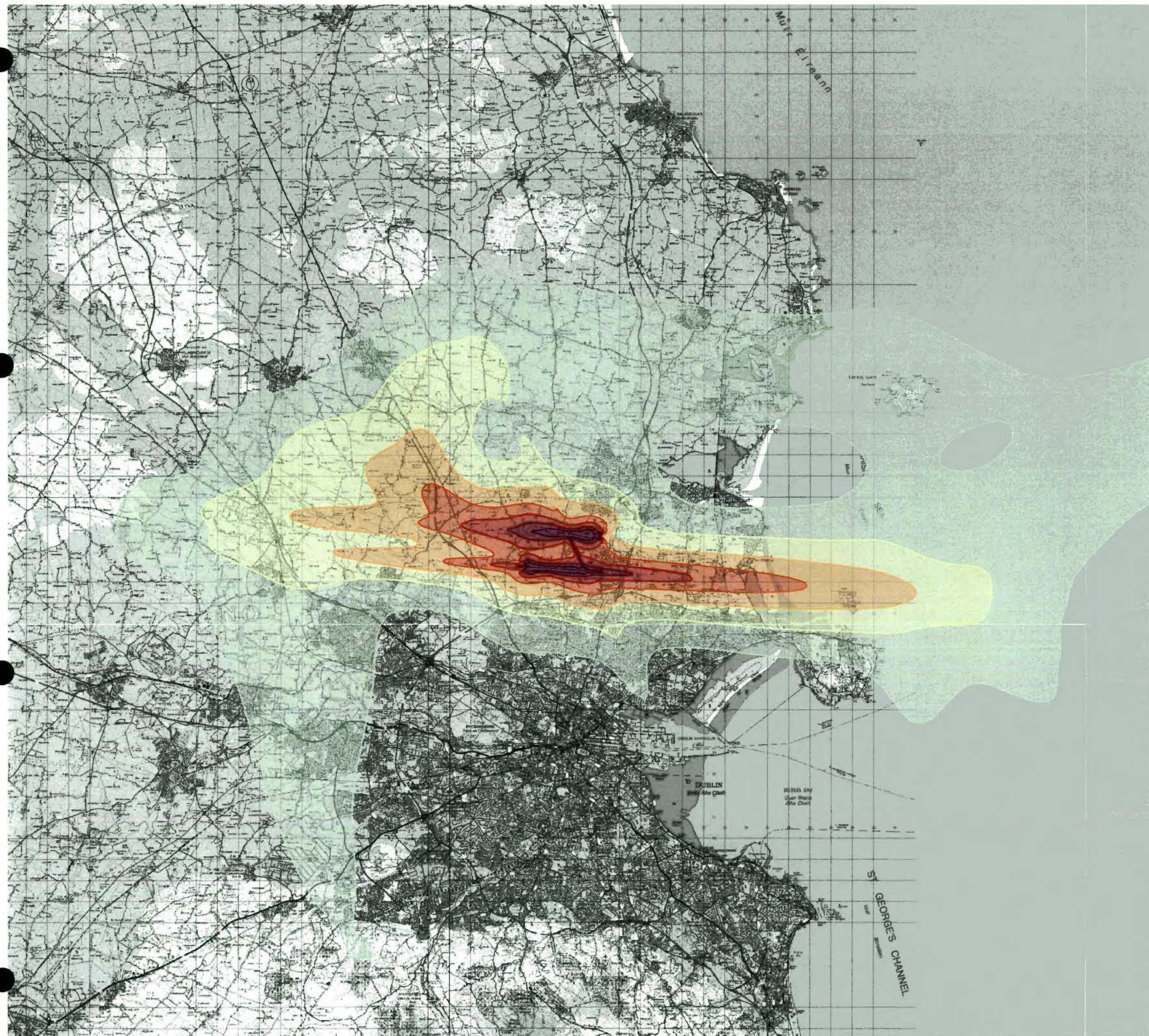
Forecast Evening Noise Contours
2022 Baseline
Figure 13C-16

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LEGEND:

- 45 - 49 dB(A) L_{den}
- 50 - 54 dB(A) L_{den}
- 55 - 59 dB(A) L_{den}
- 60 - 64 dB(A) L_{den}
- 65 - 69 dB(A) L_{den}
- 70 - 74 dB(A) L_{den}
- 75+ dB(A) L_{den}

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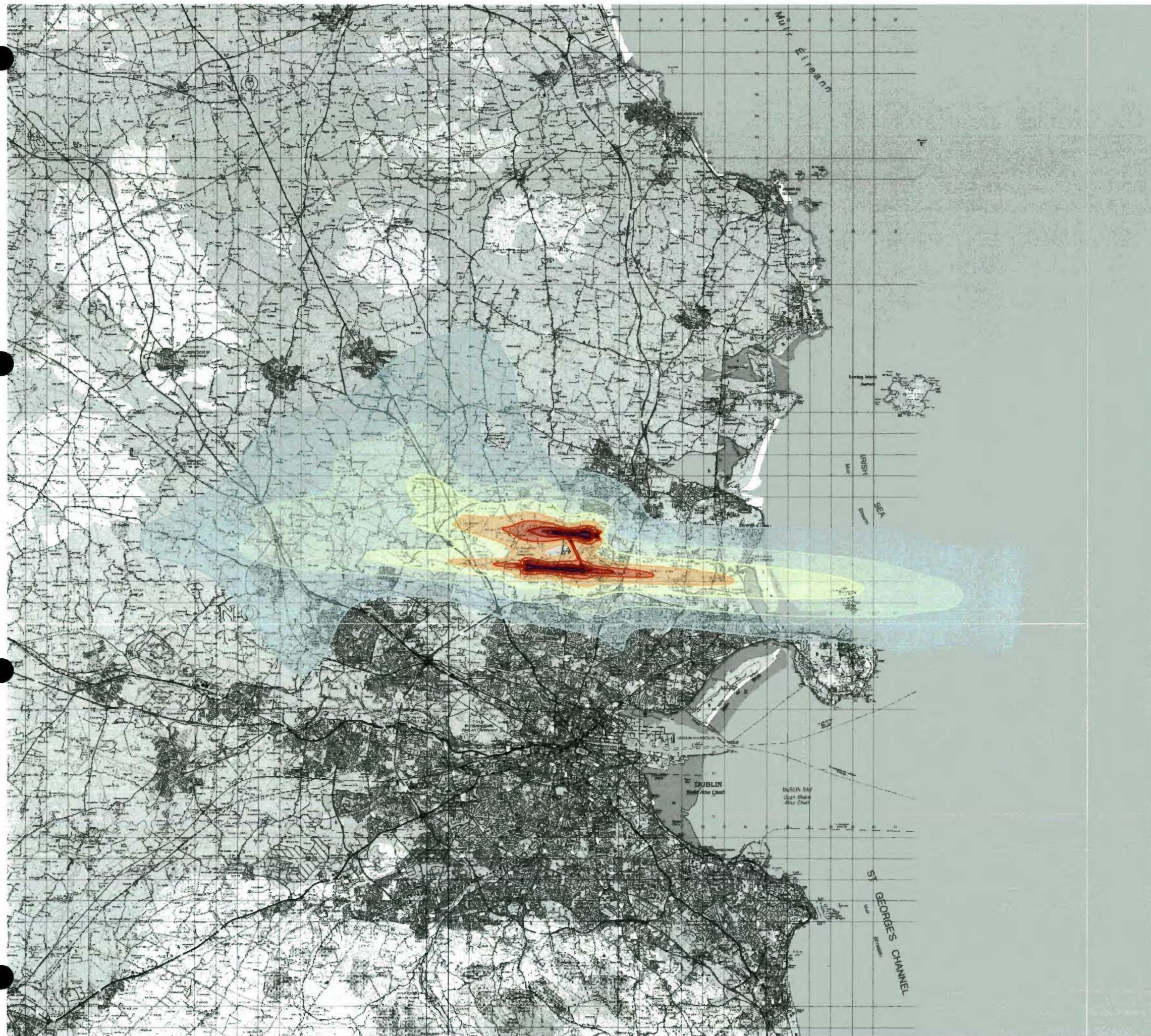
Forecast Lden Noise Contours
2022 Relevant Action
Figure 13C-17

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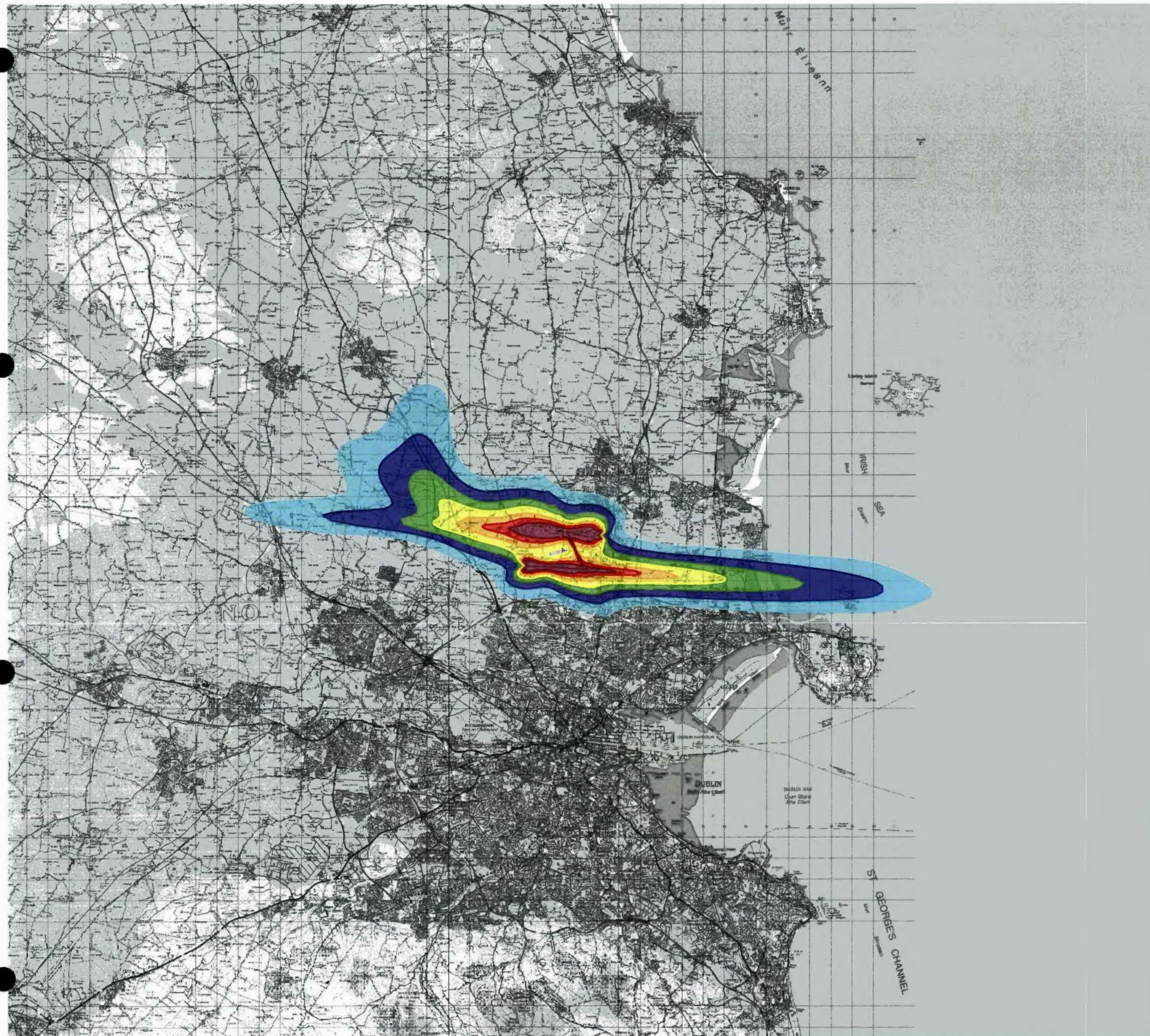
Forecast Night Noise Contours
2022 Relevant Action
Figure 13C-18

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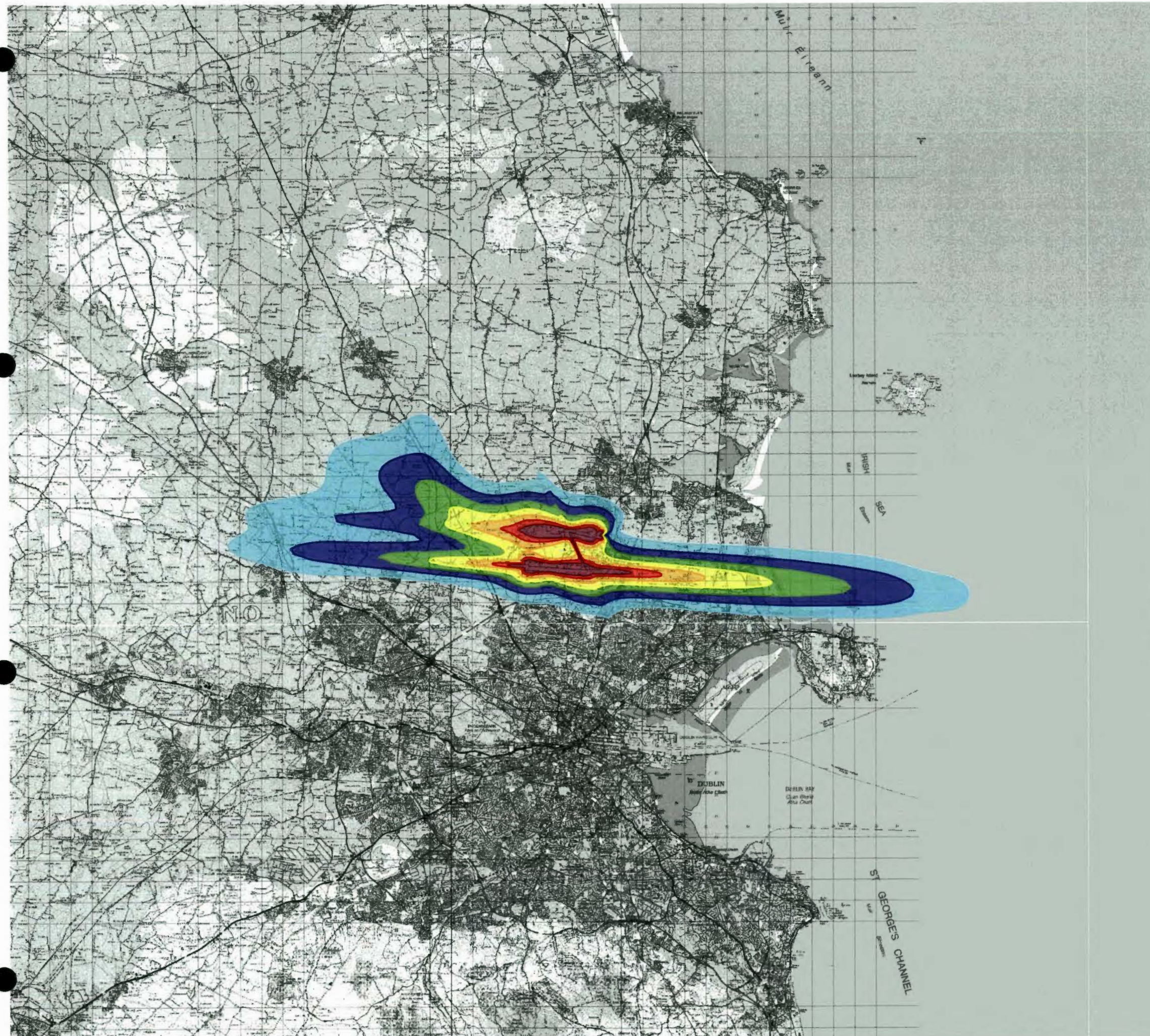
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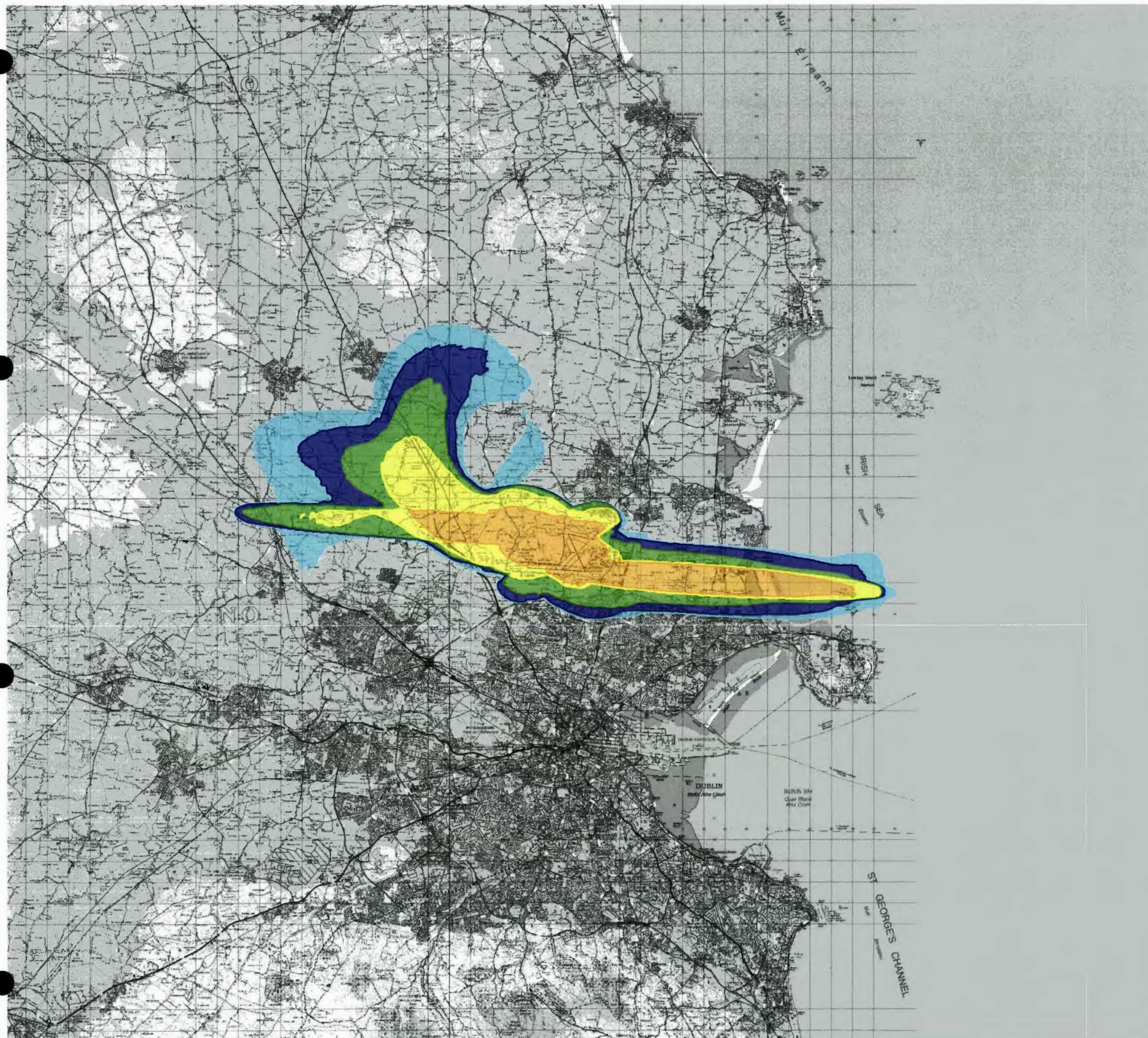
Forecast Summer Night Noise Contours
2022 Relevant Action
Figure 13C-20

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LEGEND:

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

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Forecast Summer Day N65 Noise Contours
2022 Relevant Action
Figure 13C-21

DRAWN: DCH

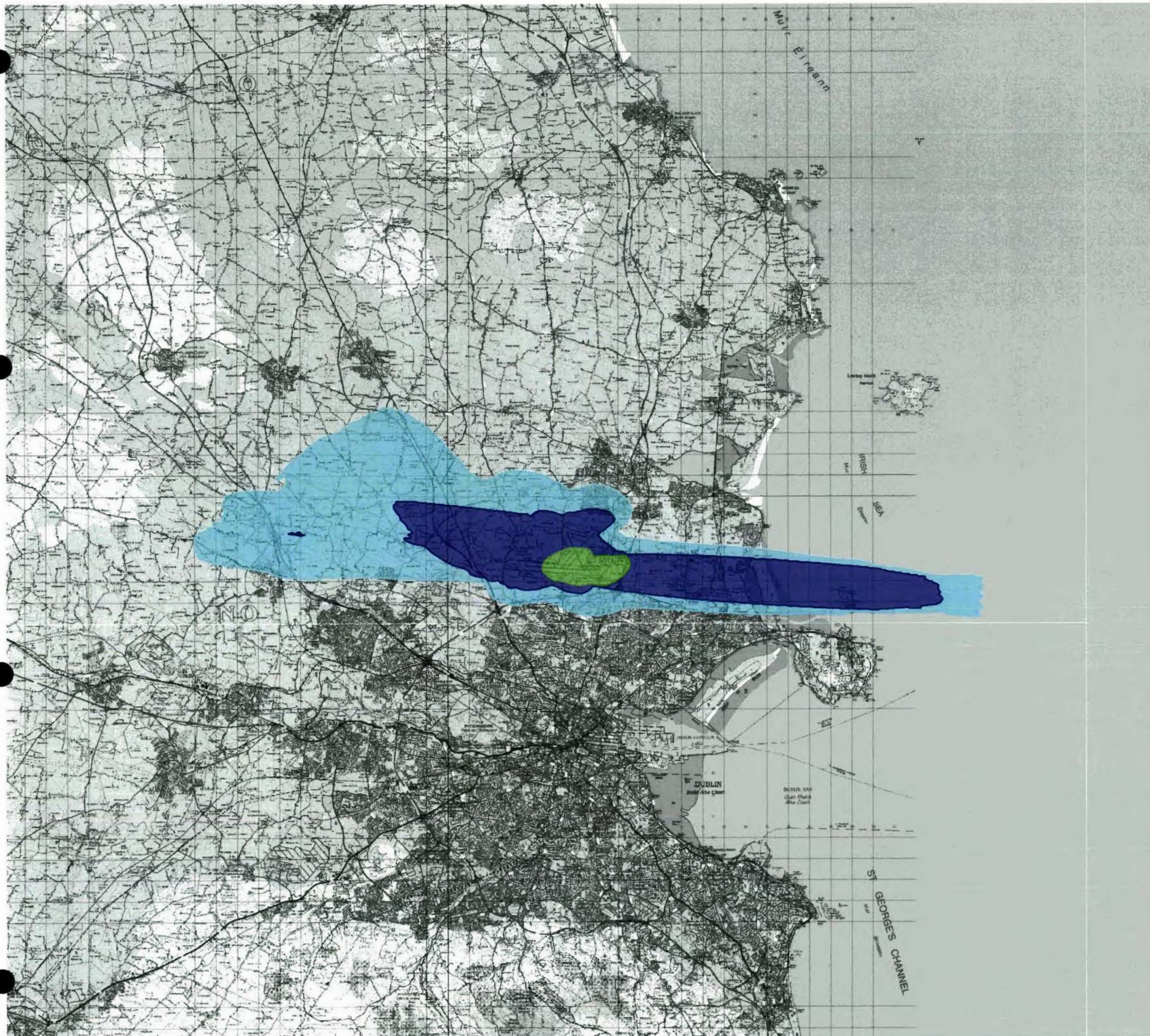
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LEGEND:

- 10 - 24 N60
- 25 - 49 N60
- 50+ N60

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Forecast Summer Night N60 Noise Contours
2022 Relevant Action
Figure 13C-22

DRAWN: DCH

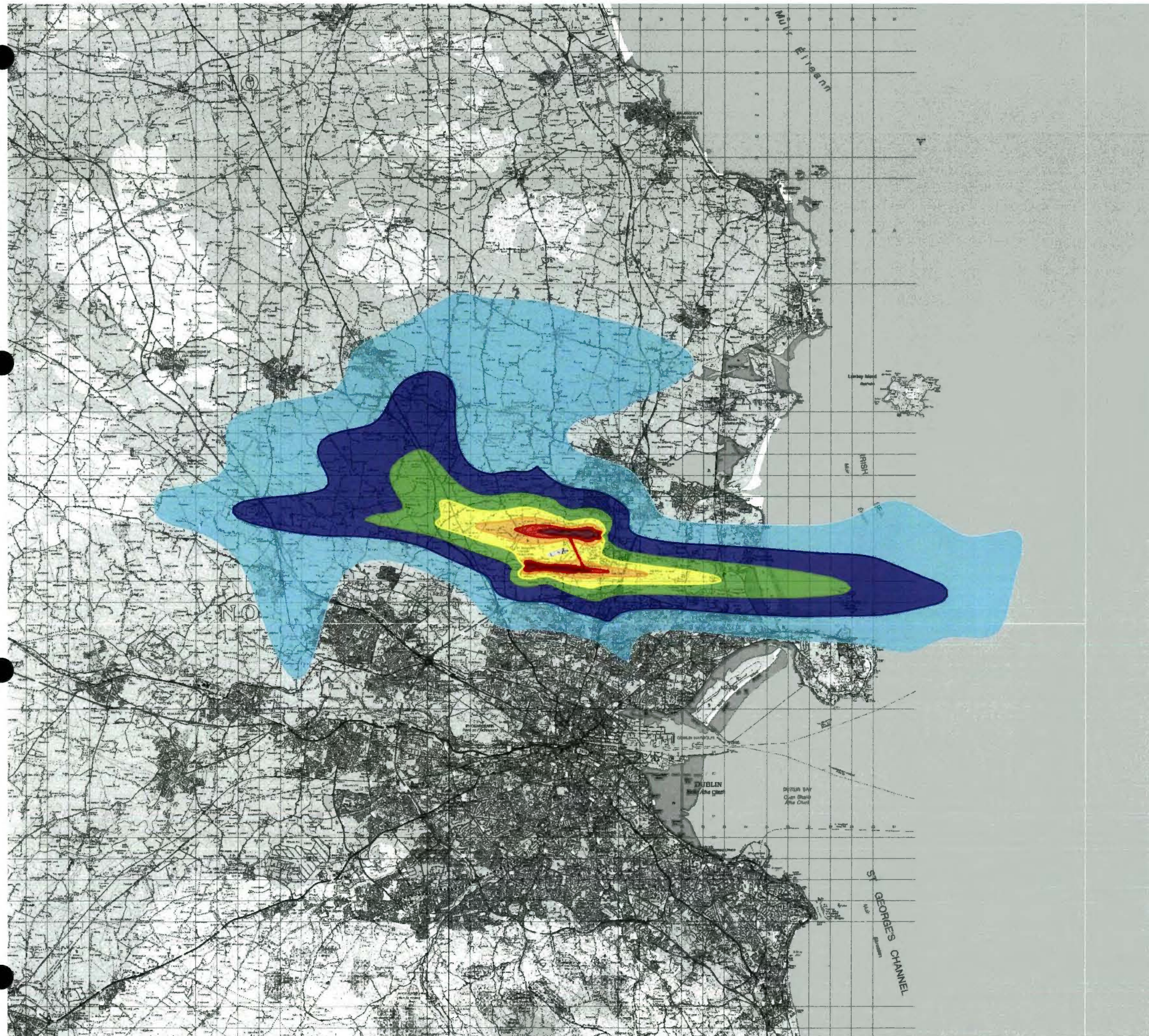
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DATE: October 2020

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LEGEND:

- 45 - 49 dB(A) L_{day}
- 50 - 54 dB(A) L_{day}
- 55 - 59 dB(A) L_{day}
- 60 - 64 dB(A) L_{day}
- 65 - 69 dB(A) L_{day}
- 70 - 74 dB(A) L_{day}
- 75+ dB(A) L_{day}

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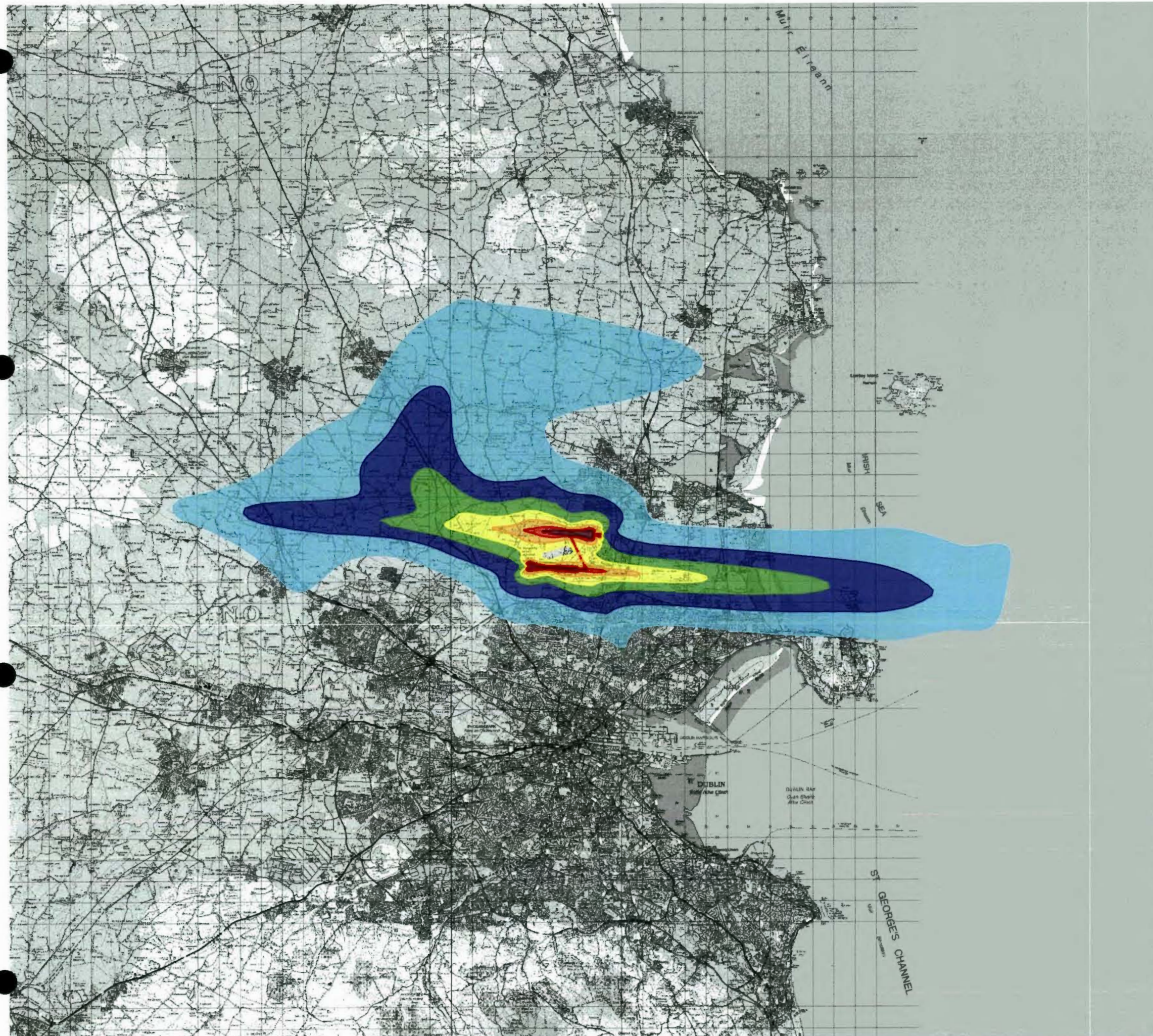
Forecast Lday Noise Contours
2022 Relevant Action
Figure 13C-23

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LEGEND:

45 - 49 dB(A) L_{evening}
50 - 54 dB(A) L_{evening}
55 - 59 dB(A) L_{evening}
60 - 64 dB(A) L_{evening}
65 - 69 dB(A) L_{evening}
70 - 74 dB(A) L_{evening}
75+ dB(A) L_{evening}

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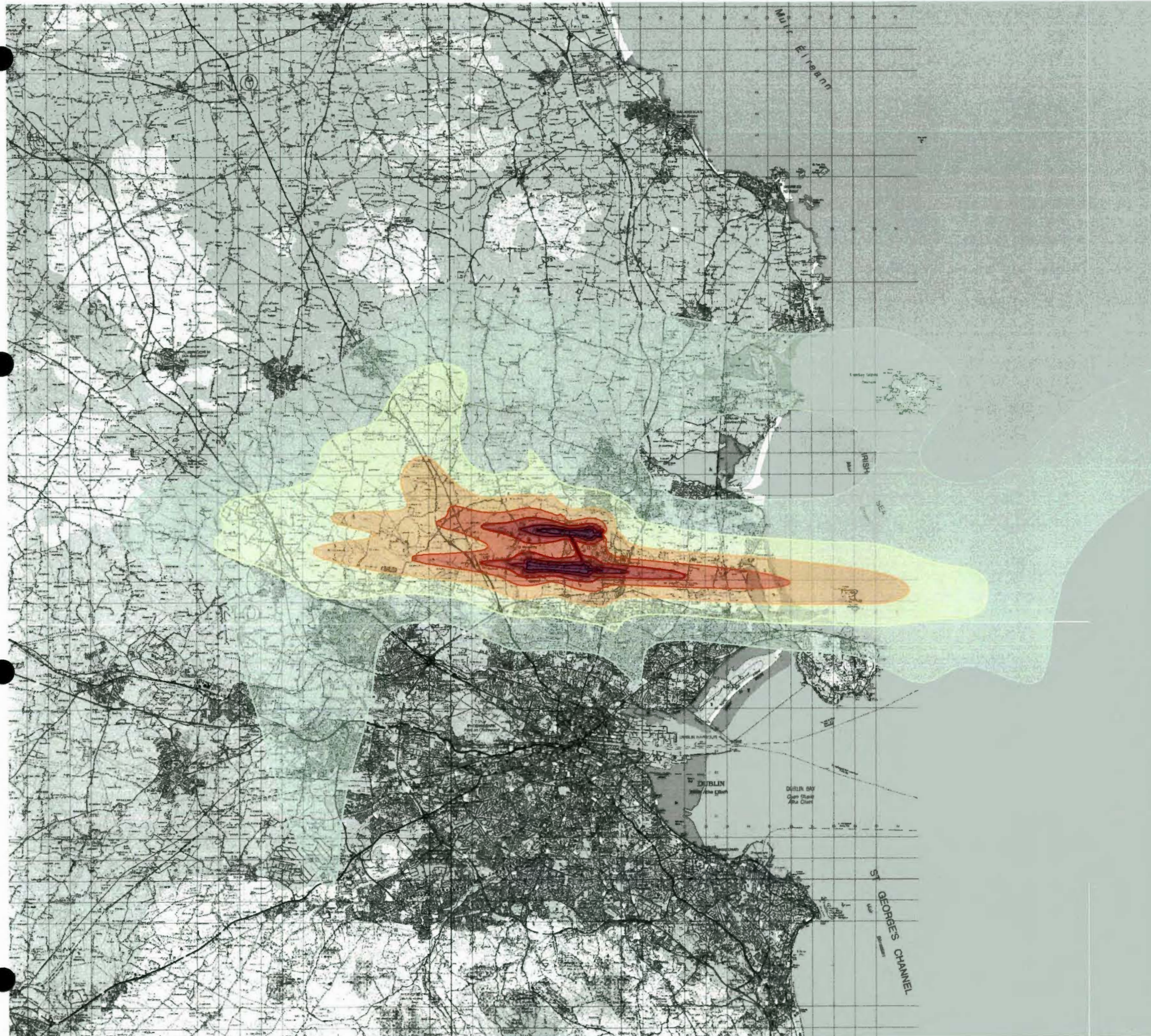
Forecast Levening Noise Contours
2022 Relevant Action
Figure 13C-24

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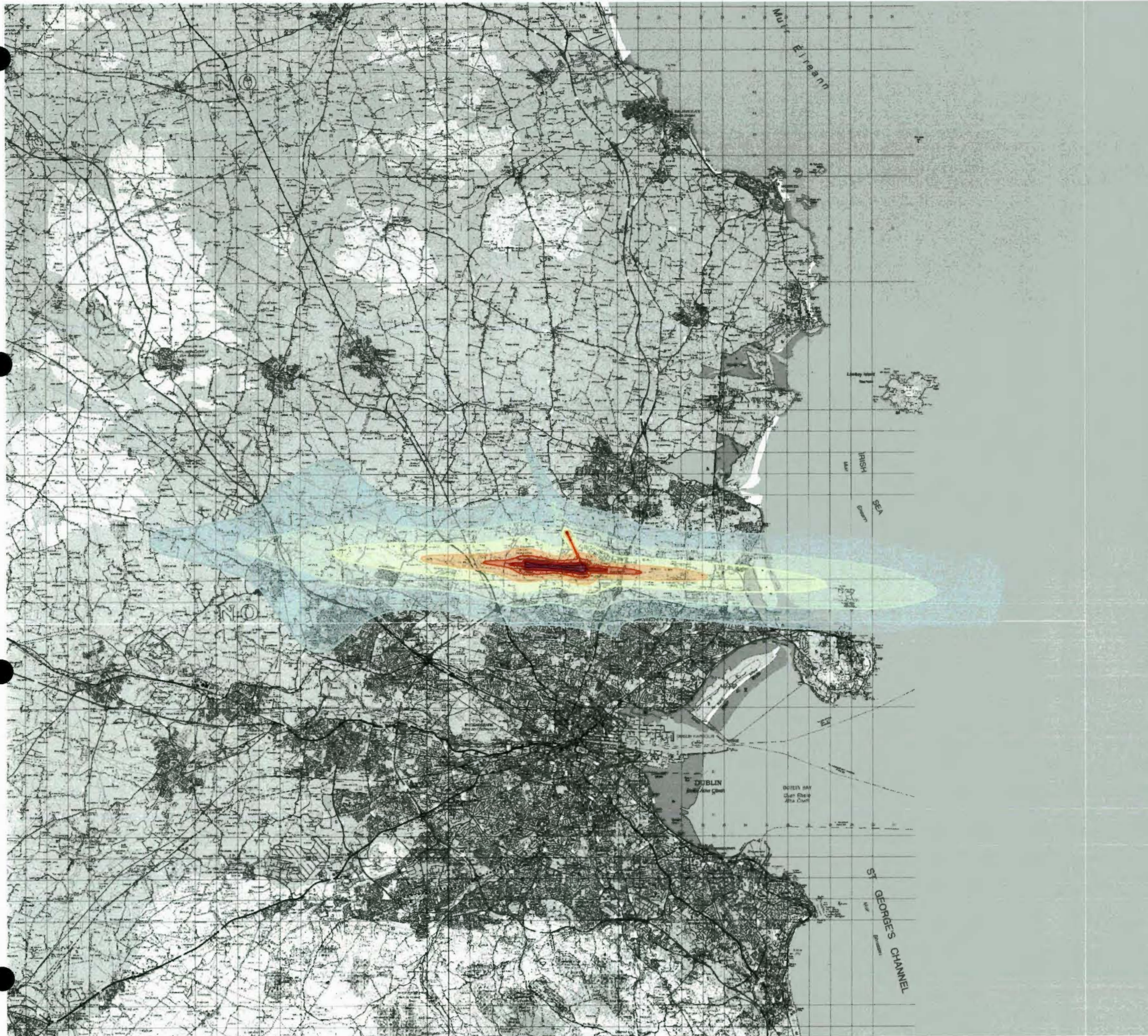
Forecast Lden Noise Contours
2025 Baseline
Figure 13C-25

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Forecast Night Noise Contours
2025 Baseline
Figure 13C-26

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LEGEND:

- 51 - 53 dB(A) $L_{Aeq,16h}$
- 54 - 56 dB(A) $L_{Aeq,16h}$
- 57 - 59 dB(A) $L_{Aeq,16h}$
- 60 - 62 dB(A) $L_{Aeq,16h}$
- 63 - 65 dB(A) $L_{Aeq,16h}$
- 66 - 68 dB(A) $L_{Aeq,16h}$
- 69+ dB(A) $L_{Aeq,16h}$

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Forecast Summer Day Noise Contours
2025 Baseline
Figure 13C-27

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