

**M25 junction 28 improvement scheme
TR010029
6.3 Environmental Statement
Appendix 6.3: Noise sensitive receptors**

APFP Regulation 5(2)(a)
Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M25 junction 28 scheme Development Consent Order 202[x]

6.3 ENVIRONMENTAL STATEMENT APPENDIX 6.3: NOISE SENSITIVE RECEPTORS

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Appendix 6.3 Noise sensitive receptors

6. Noise sensitive receptors

6.1 Introduction

6.1.1 This document presents the predicted road traffic noise levels in the operation phase of the Scheme in its opening year (2022) and future assessment year (2037) for a selection of sensitive receptors within the study area.

6.1.2 The predicted road traffic noise levels for the following traffic scenarios are provided in this document:

- Do Minimum 2022 (DM 2022) – without the Scheme in the opening year
- Do Something 2022 (DS 2022) – with the Scheme in the opening year
- Do Minimum 2037 (DM 2037) – without the Scheme in the future assessment year
- Do Something 2037 (DS 2037) – with the Scheme in the future assessment year

6.1.3 Multiple prediction points were used to establish the level of noise impact at sensitive receptors. For example, at least one prediction point was modelled on each façade of a noise-sensitive building. The results presented in this section are the predicted road traffic noise levels at 1m from the worst affected façade and floor (or prediction point) at each of the selected sensitive receptors. The worst affected façade and floor of noise-sensitive properties was the one where the highest noise levels were predicted.

6.1.4 For further details about the assessment methodology, modelling assumptions and limitations, and the significance threshold levels used to appraise the Scheme, please refer to the Noise and Vibration chapter (Chapter 6) of ES (application document TR010029/APP/6.1).

6.2 Predicted daytime road traffic noise levels

6.2.1 Table 6.1 below shows the predicted daytime ($L_{A10,18h}$) road traffic noise levels at a representative selection of residential and non-residential sensitive receptors in the study area.

Table 6.1 Predicted daytime road traffic noise levels at selected locations

Noise-sensitive receptor	Road traffic noise levels ($L_{A10,18h}$, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
1 Maylands Cottages Maylands Golf Club Colchester Road RM3 0AZ	62.4	61.6	62	61.8	-0.8	-0.6
2 Maylands Cottages Maylands Golf Club Colchester Road RM3 0AZ	63.7	63.3	63.6	63.6	-0.4	-0.1
13 Nags Head Lane CM14 5NJ	72.1	72.1	70.4	70.5	0	-1.6

Noise-sensitive receptor	Road traffic noise levels ($L_{A10,18h}$, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
17 Colchester Road RM3 0AW	74.4	74.5	75	75.1	0.1	0.7
60, Brook Street CM14 5ND	75	74.5	73.5	73.8	-0.5	-1.2
63 Brook Street CM14 5NA	73.1	73	73.2	73.1	-0.1	0
Caravan 1, Putwell Bridge Caravan Park, Colchester Road RM3 0FF	74.9	74.5	75.3	75	-0.4	0.1
Grove Farm, Brook Street CM14 5NG	73.4	72.5	72.3	72.5	-0.9	-0.9

6.3 Predicted night-time road traffic noise levels

6.3.1 Table 6.2 below shows the predicted night-time (L_{night}) noise levels at a representative selection of residential and non-residential sensitive receptors in the study area.

Table 6.2: Predicted night-time road traffic noise levels at selected locations

Noise-sensitive receptor	Road traffic noise levels ($L_{A10,18h}$, dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
1 Maylands Cottages Maylands Golf Club Colchester Road RM3 0AZ	57.1	56.4	56.3	56.4	-0.7	-0.8
2 Maylands Cottages Maylands Golf Club Colchester Road RM3 0AZ	57.2	56.6	56.5	56.6	-0.6	-0.7
13 Nags Head Lane CM14 5NJ	66.5	66.9	65.4	65.5	0.4	-1.1
17 Colchester Road RM3 0AW	63.8	63.7	64.1	64.2	-0.1	0.3
60, Brook Street CM14 5ND	69.4	69	68	68.3	-0.4	-1.4
63 Brook Street CM14 5NA	63.5	63.2	63.2	63.2	-0.3	-0.3
Caravan 1 Putwell Bridge Caravan Park Colchester Road RM3 0FF	64.5	64.1	64.7	64.4	-0.4	0.2

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