



Environmental Associates

Noise Assessment

Land off Mill Lane, Whitburn

July 2026

Story Homes Ltd



Noise Assessment

Land off Mill Lane, Whitburn

Client: Story Homes Ltd

Report reference: NJD25-0074-001R

Report Version	Prepared By	Reviewed By
Draft	SG	NJD
Final	SG	NJD
Final V2	SG	NJD

NJD Environmental Associates LTD

www.njdenvironmental.co.uk

Company Registration No 10956987

CONTENTS

1	INTRODUCTION	1
2	PLANNING POLICY AND GUIDANCE.....	3
3	ASSESSMENT METHODOLOGY.....	7
4	NOISE SURVEY	9
5	CADNAA NOISE MODELS.....	16
6	BS8233 ASSESSMENT OF NOISE LEVELS IN LIVING ROOMS AND BEDROOMS	18
7	BS4142 ASSESSMENT.....	19
8	MITIGATION	21
9	ACOUSTIC DESIGN STATEMENT	23
10	ACOUSTIC DESIGN SUMMARY	25
11	OVERHEATING.....	26
12	CONCLUSION.....	28

FIGURES

- 1 Daytime LAeq,16hr (1.5m grid height)
- 2 Night time LAeq,8hr (4.0m grid height)
- 3 Night time LAmix (4.0m grid height)
- 4 Daytime Specific Noise Levels LAeq, 1 hour (1.5m grid height)
- 5 Night-time Specific Noise Levels LAeq, 15 minutes (4.0m grid height)
- 6 Living Room Acoustic Mitigation
- 7 Bedroom Acoustic Mitigation

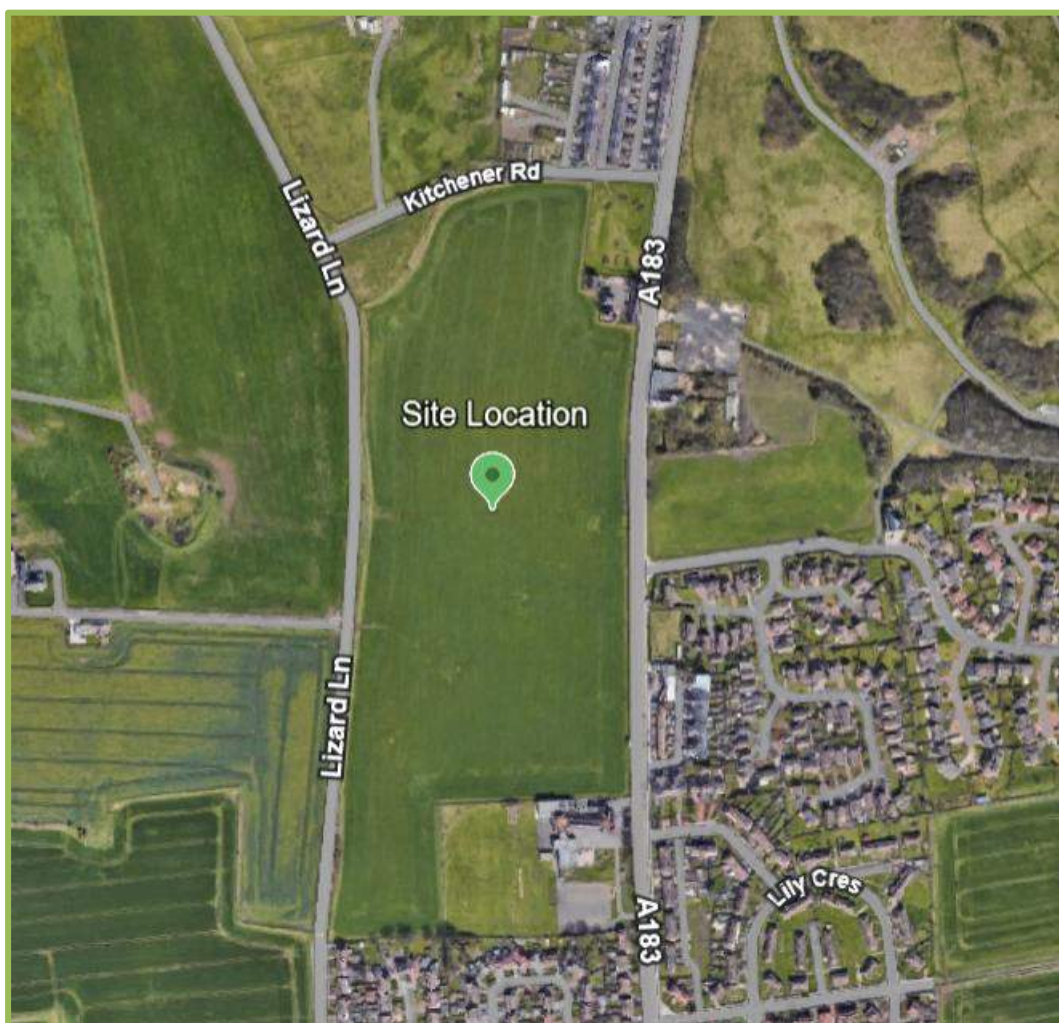
APPENDICES

- 1 Noise Measurements
- 2 LAmix Analysis

1 INTRODUCTION

1.1 Background

- 1.1.1 NJD Environmental Associates Ltd was instructed by Story Homes Ltd to prepare a noise assessment to accompany a planning application for a proposed residential development located on Land off Mill Lane, Whitburn.
- 1.1.2 The site location is provided below in Drawing 1 and the proposed layout in Drawing 2.



Drawing 1: Site Location



Drawing 2: Proposed Layout

- 1.1.3 A noise report has been prepared for the planning application; with measurements taken of noise levels impacting the site, calculations performed using noise modelling software, and the results interpreted in accordance with the relevant standards.

2 PLANNING POLICY AND GUIDANCE

- 2.1.1 The revised NPPF published in December 2024 provides the following with regards to noise, set out at paragraph 187 and 198:

'187: Planning policies and decisions should contribute to and enhance the natural and local environment by: ...

(e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of solid, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans.'

and

"198: Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development.

In doing so they should:

a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;

b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason."

- 2.1.2 It is clear that the NPPF seeks to limit the exposure of new development to unacceptable levels of noise, although the policy does not seek to prescribe what constitutes an unacceptable level of noise.

2.2 Noise Policy Statement for England (NPSE)

- 2.2.1 The Department for Environment, Food and Rural Affairs (DEFRA) published the NPSE in March 2010.
- 2.2.2 The explanatory note of NPSE defines the terms used in the NPPF:

“2.19 There are several key phrases within the NPSE aims and these are discussed below.

‘Significant adverse’ and ‘adverse;

2.20 There are two established concepts from toxicology that are currently being applied to noise impacts, for example, by the World Health Organisation. They are:

NOEL – No Observed Effect Level

This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise.

LOAEL – Lowest Observed Adverse Effect Level

This is the level above which adverse effect on health and quality of life can be detected.

2.21 Extending these concepts for the purpose of this NPSE leads to the concept of a significant observed adverse effect level.

SOAEL – Significant Observed Adverse Effect Level

This is the level above which significant adverse effects on health and quality of life occur.”

2.2.3 The NPSE does not define the SOAEL numerically, stating at paragraph 2.22:

“2.22 It is not possible to have a single objective noise-based measure that defines SOAEL that is applicable to all sources of noise in all situations. Consequently, the SOAEL is likely to be different for different noise sources, for different receptors and at different times. It is acknowledged that further research is required to increase our understanding of what may constitute a significant adverse impact on health and quality of life from noise. However, not having specific SOAEL values in the NPSE provides the necessary policy flexibility until further evidence and suitable guidance is available.”

2.2.4 There is no local or national guidance on how the three terms should be defined numerically, it is for the assessor to collate and interpret appropriate guidance on noise, such as may be found in British Standards, and correlate the guidance with the concepts of NOEL, LOAEL and SOAEL.

2.3 Planning Practice Guidance: Noise (PPGN)

2.3.1 In March 2014, the Government released the PPG on noise, revised July 2019. This document sets out a number of principles and reinforces the guidance set out in the NPPF and NPSE.

2.3.2 Paragraph 001 of PPGN notes that:

“Noise needs to be considered when new development may create additional noise and when new developments would be sensitive to the prevailing acoustic environment.”

2.3.3 It goes on to note in paragraph 003 that:

“Local planning authorities’ plan-making and decision taking should take account of the acoustic environment and in doing so consider:

- whether or not a significant adverse effect is occurring or likely to occur;*
- whether or not an adverse effect is occurring or likely to occur; and*
- whether or not a good standard of amenity can be achieved.”*

2.3.4 The PPGN broadly repeats the NPSE definitions of the NOEL, LOAEL AND SOAEL and it provides a summary table to explain how the terms relate to each other and to typical human response to sound. The table is replicated below in Table 1.

Table 1: PPGN noise exposure hierarchy			
Perception	Examples of Outcome	Increasing Effect Level	Action
Not Noticeable	No Effect	No Observed Effect	No specific measures required
Noticeable and not intrusive	Noise can be heard but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.	No Observed Adverse Effect	No specific measures required
Lowest Observed Adverse Effect Level			
Noticeable and intrusive	Noise can be heard and small changes in behaviour and/or attitude, e.g. turning up volume of televisions; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the areas such that there is a perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
Significant Observed Adverse Effect Level			
Noticeable and disruptive	The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Noticeable and very disruptive	Extensive and regular changes in behaviour and/or inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory or non-auditory	Unacceptable Adverse Effect	Prevent

2.3.5 The PPGN provides advice on how to mitigate the effects of noise, noting that there are options to reduce noise at source, to optimise site layouts and to use planning conditions.

3 ASSESSMENT METHODOLOGY

3.1 BS8233:2014 and WHO 1999 Guidance Levels

- 3.1.1 BS8233:2014 'Guidance on sound insulation and noise reduction for buildings' provides guidance for the control of noise in and around buildings. It applies to the design of new buildings, or refurbished buildings undergoing a change of use.
- 3.1.2 BS8233 refers to the World Health Organisation research and recommendations when defining acceptable and upper guidance noise levels within gardens during the day, and within habitable rooms in dwellings during the day and night-time periods as follows:

Table 2: Summary of BS8233 guidance noise levels			
Activity	Location	0700 to 2300h	2300 to 0700h
Resting	Living room	35dB LAeq,16h	-
Relaxing	Gardens	55dB LAeq,16h	-
Dining	Dining room	40dB LAeq,16h	-
Sleeping (Daytime resting)	Bedroom	35dB LAeq,16h	30dB LAeq,8h 45dB LAmx

- 3.1.3 Note 4 to Table 4 of BS8233 states, "Regular individual noise events (for example, scheduled aircraft or passing trains) can cause sleep disturbance. A guideline value may be set in terms of SEL or LAmxF, depending on the character and number of events per night. Sporadic noise events could require separate values.",
- 3.1.4 The WHO Community Noise Guidelines, 1999 details the following:
"If negative effects on sleep are to be avoided the equivalent sound pressure level should not exceed 30dBA indoors for continuous noise. If the noise is not continuous, sleep disturbance correlates best with LAmx and effects have been observed at 45dB or less."
- 3.1.5 Section 3.4 of the guidelines also states:
"For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45dB LAmx more than 10-15 times per night (Vallet and Vernet, 1991)."
- 3.1.6 The above levels have been adopted for the purpose of this assessment.

3.2 BS4142:2014+A1:2019 Industrial and Commercial Sound Guidance

- 3.2.1 Where industrial or commercial noise is present or proposed and likely to impact a residential receptor, the guidance contained within BS 4142:2014+A1:2019 '*Methods for rating and assessing industrial and commercial sound*' should be followed. The guidance enables the effects of such noise on people nearby to be assessed and the associated risks to be minimised.
- 3.2.2 The guidance provides a methodology for determining an initial estimate of significance through subtracting the measured background noise level from the rating level (the specific sound level of the source corrected for any distinctive acoustic characteristics).
- 3.2.3 Typically, the greater the difference, the greater the magnitude of the impact.
- A difference of around +10dB or more is likely to be an indication of a significant adverse impact, depending on the context.
 - A difference of around +5dB is likely to be an indication of an adverse impact, depending on the context.
 - The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.
- 3.2.4 The context, as defined within BS4142, relates to the following factors:
- The absolute level of sound.
 - Character and level of the residual sound compared to the character and level of the specific sound.
 - Acoustic design measures.

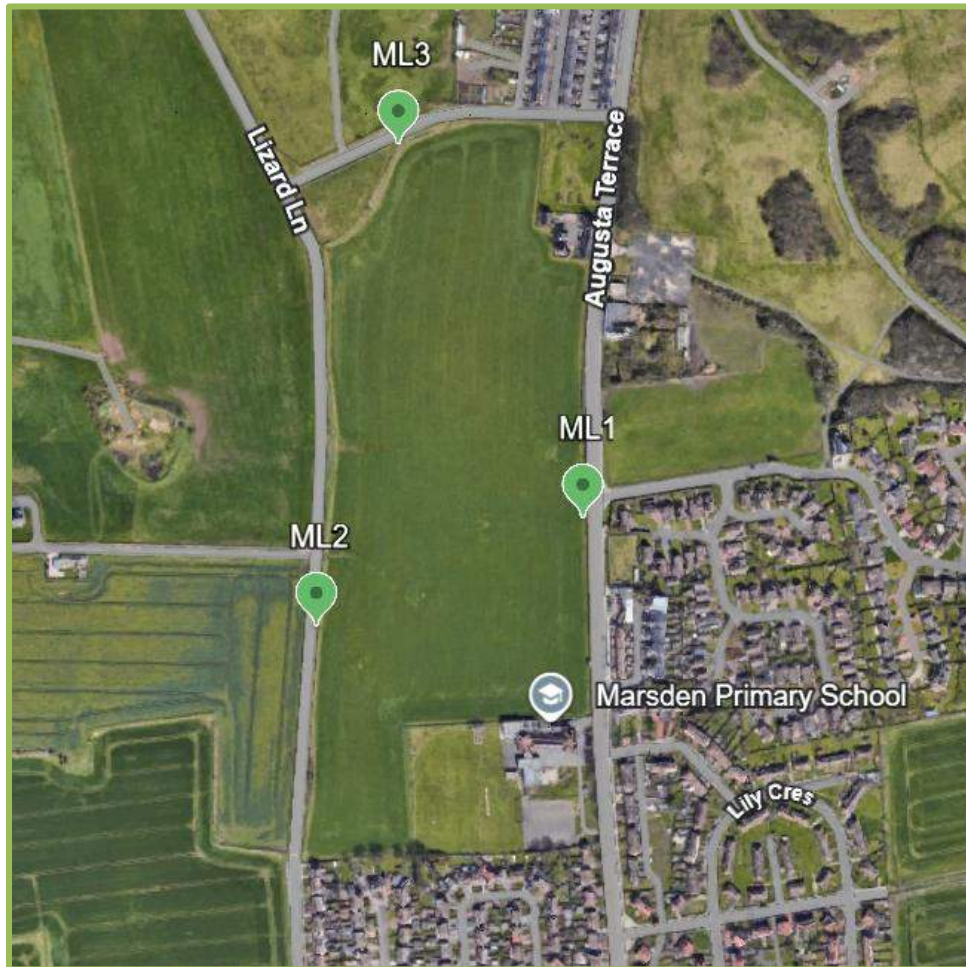
4 NOISE SURVEY

4.1 Introduction

- 4.1.1 Between the 6th to 11th May 2025, noise measurements were taken in the vicinity of the development site, in order to quantify and characterise noise from surrounding sources.
- 4.1.2 Measurements were taken using Acoem Fusion sound level meters. The Class 1 instrument logged 1/3 octave levels throughout the measurements, in addition to audio recordings to aid subsequent analysis. The instruments were calibrated before and after the measurements to a reference level of 94dB, with no notable drift observed.
- 4.1.3 The sound level meters (SN: 14925, 16313 and 16312) and field calibrator (SN: 34675377) hold valid calibration certificates traceable to national standards, compliant with the requirements of BS7445. All calibration certificates can be made available upon request.

4.2 Monitoring Locations

- 4.2.1 Measurements were taken at the locations shown in Drawing 3 below.



Drawing 3: Noise monitoring locations

4.2.2 The monitoring locations were as follows:

- **ML1:** On the eastern boundary of the proposed development site, approximately 6m from A183 Augusta Terrace, to determine associated road traffic noise levels. The monitor was also positioned as close as possible in a secure location to the existing Coast Road Garage.

The measurement took place during the following dates and times:

- 1030h on the 06th May, to 1015h on the 09th May 2025.

- **ML2:** On the western boundary of the proposed development site, approximately 2m from Lizard Lane to the west, to determine associated road traffic noise levels.

The measurement took place during the following dates and times:

- 1840h on the 06th May, to 1010h on the 09th May 2025.

- **ML3:** On the northern boundary of the proposed development site, approximately

10m from Kitchener Road to the north, to determine associated road traffic noise levels. The monitor was also positioned in a location on the site that is the considered the closest accessible location to the existing quarry to the north.

The measurement took place during the following dates and times:

- o 1033h on the 09th May, to 1740h on the 11th May 2025.

- 4.2.3 During the deployment and collection of noise monitoring equipment, road traffic noise from Augusta Terrace, Lizard Lane and Kitchener Road was found to be the dominant noise source.
- 4.2.4 No secure location could be found next to Marsden Primary School and also there was on-going construction work (believed to be replacing the existing roof of the school) and therefore a noise meter was not positioned adjacent the Marsden Primary School. Additionally, no secure location could also be found at the children's play area. However, appropriate representative surrogate data for these spaces have been utilised.
- 4.2.5 On analysis of the sound files for ML1 and site observations, noise associated with the adjacent car garage was not audible, as such this source has not been considered further within the assessment.
- 4.2.6 On analysis of the sound files for ML2, noise associated with existing farm buildings to the west of the site was not audible, as such this source has not been considered further within the assessment.
- 4.2.7 Weather conditions throughout the survey were favourable; with windspeeds typically between 3 to 5m/s⁻¹, and no rainfall noted.

4.3 Quarry Noise

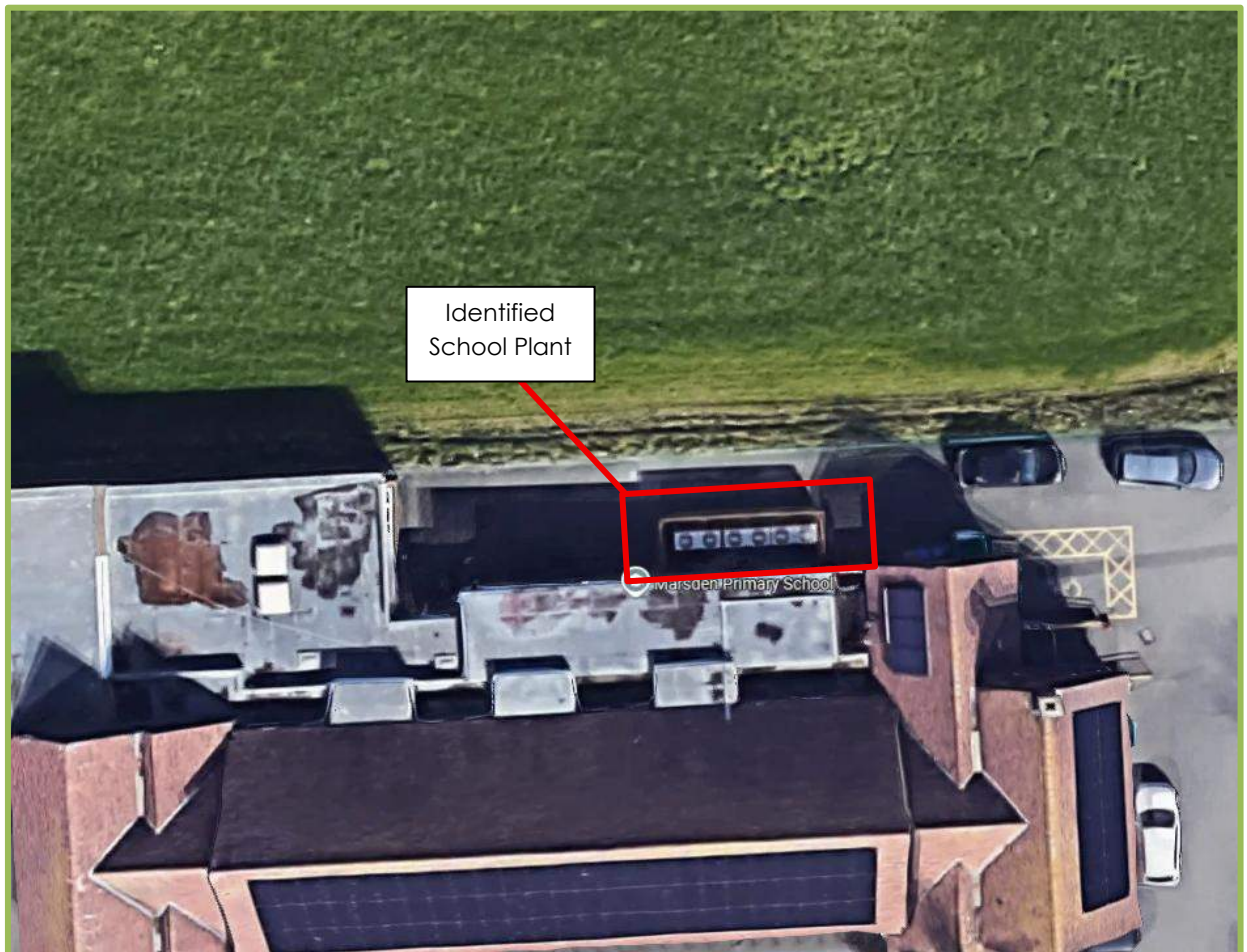
- 4.3.1 On analysis of the sound files for ML3, noise associated with the existing quarry to the north of the site was not audible at any time during the survey.
- 4.3.2 Although quarry noise was not audible during either the analysis of the data or during the site visits undertaken, a review of the planning conditions imposed on the quarry has been carried out.
- 4.3.3 It is understood that, under planning permission ST/01369/2/DM, noise from the site is to not exceed 55dBA LAeq, 1 hour at the closest sensitive receptors.
- 4.3.4 Given that there are existing properties located significantly closer to the quarry

than the proposed development site, it is considered unlikely that quarry-related activity will result in significant noise levels at the proposed dwellings, particularly in light of the above noise limit condition

- 4.3.5 Therefore, no additional consideration of noise associated with the quarry is necessary.

4.4 School Plant Noise

- 4.4.1 Following a site walkover, external plant was identified to the north of 'Marsden Primary School' towards to the south of the site. The identified external plant is shown in Drawing 4 below.



Drawing 4: Marsden Primary School Existing Plant Location

- 4.4.2 However, during the initial site visit as noted above, construction works on the roof of the school were being undertaken, as such an additional visit was undertaken to enable source measurements of the plant to be taken. This source was only audible at a close distance and therefore a short source measurement

was undertaken to characterise it. This measurement is presented in the following section.

- 4.4.3 No other plant from the school was noted.

Uncertainties

- 4.4.4 Noise measurements have been undertaken with high precision Class 1 instruments calibrated before and after the survey by an appropriately qualified and experienced technician.
- 4.4.5 The baseline data has been recorded over a number of days during the weekday when traffic movements and baseline noise levels are anticipated to be higher, and during the operational hours of the car garage and quarry.
- 4.4.6 The noise models presented in this assessment calculate noise propagation to the methodologies contained within ISO 9613-2 Acoustic – Attenuation of sound during propagation outdoors. This gives a higher level of accuracy for the level of attenuation provided by intervening topography and barriers than the method provided by BS5228.
- 4.4.7 Whilst an element of uncertainty will inherently exist in any noise assessment due to the large number of potential variables, all reasonable steps have been taken to reduce this.
- 4.4.8 As such, the level of uncertainty should not be significant and the results and conclusions should be considered robust.

4.5 Existing Noise Levels

- 4.5.1 The noise levels from the identified monitoring location are summarised in Tables 3-5 below.
- 4.5.2 The source noise level measured on the boundary of the site for the existing building service plant for the school is shown in Table 6 below.

Table 3: Summary of measured noise levels (dBA) – ML1

Date	Daytime LAeq (0700 to 2300h)		Night-time (2300 to 0700h)	
	LAeq	LAmix	LAeq	LAmix*
Tuesday 06/05/2025	54	85	45	67
Wednesday 07/05/2025	53	77	45	68
Thursday 08/05/2025	54	77	46	69
Friday 09/05/2025	54	71	-	-
*10 th highest max				

Table 4: Summary of measured noise levels (dBA) – ML2

Date	Daytime LAeq (0700 to 2300h)		Night-time (2300 to 0700h)	
	LAeq	LAmix	LAeq	LAmix*
Tuesday 06/05/2025	59	83	52	77
Wednesday 07/05/2025	61	91	51	77
Thursday 08/05/2025	62	89	53	78
Friday 09/05/2025	61	81	-	-
*10 th highest max				

Table 5: Summary of measured noise levels (dBA) – ML3

Date	Daytime LAeq (0700 to 2300h)		Night-time (2300 to 0700h)	
	LAeq	LAmix	LAeq	LAmix*
Friday 06/05/2025	51	74	43	60
Saturday 10/05/2025	51	79	43	61
Sunday 11/05/2025	51	70	-	-
*10 th highest max				

Table 6: Plant Noise Levels (dB)												
Description	Distance	Octave Frequency Noise Levels (dB) - Linear										Overall Noise Level (dB) - Linear
Identified External Plant at Marsden Primary School	6m	31Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz	
		77	69	62	55	53	49	47	39	28	31	55

4.6 LMax Analysis

4.6.1 WHO Guidelines for Community Noise (1999) suggests guideline values for internal noise exposure which take into consideration the identified health effects and are set, based on the lowest effect levels for general populations. The WHO (1999) recommends a guidance level of 45dB L_{Max}(f) within bedroom areas during the night-time, with the recommendation that;

'For intermittent noise, it is emphasized that it is necessary to take into account both the maximum sound pressure level and the number of noise events.'

4.6.2 World Health Organisation (WHO 2009), states in Section 3.4:

'For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45 dB L_{Max} more than 10 – 15 times per night.'

4.6.3 The ProPG Noise further expands this point with reference to BS8233 Table 4, Note 4, stating:

'In most circumstances in noise sensitive rooms at night (e.g. bedrooms) good acoustic design can be used so that individual noise events do not normally exceed 45dB L_{Max},F more than 10 times a night.'

4.6.4 In light of the above, analysis has been conducted based on the L_{Max} events observed during the night-time period at ML1, ML2 and ML3. The analysis found that the 10th highest measured L_{Max} during the night-time period at ML1 was 69dB, ML2 was 78dB and ML3 was 61dB, all of which were attributed to vehicle passes. These levels have therefore been adopted for use in the noise modelling exercise, as detailed in the following Section. A summary of L_{Max} noise levels is presented within Appendix 1.

5 CADNAA NOISE MODELS

5.1 Input Data

5.1.1 Topographic data of the site and surrounding land has been incorporated into the noise models, with buildings and roads positioned to reflect the proposed future conditions.

5.1.2 For the purpose of these calculations, the ground absorption has been set to $G=0.75$ (which represents a mixture of acoustically soft and hard ground around the site), with buildings and roads set to $G=0$, with two orders of reflection considered.

Road Traffic Noise

5.1.3 Road traffic noise has been verified to measurements from ML1, ML2 and ML3. The models have been programmed to assess scenarios based on the daytime (0700 to 2300h) and night-time (2300 to 0700h) periods. The daytime scenario has been assessed at a height of 1.5m, to represent living rooms, and the night-time scenarios have been assessed at a height of 4.0m to represent first floor bedrooms.

5.1.4 Figures 1 - 3 summarise the predicted noise levels across the site.

Playground Noise

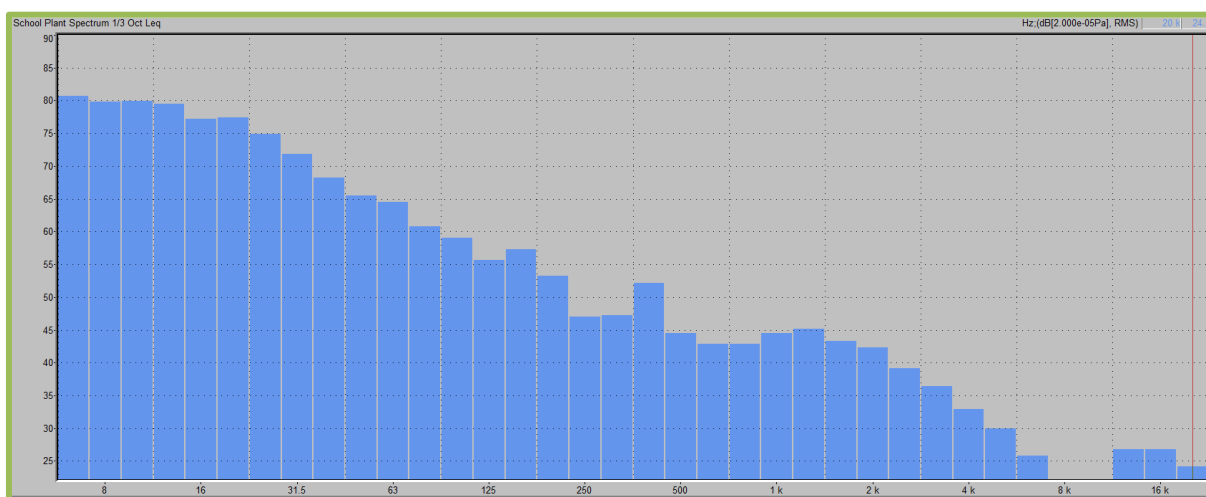
5.1.5 As no suitable secure location was identified adjacent to either the Marsden Primary School playground or the existing play area to the north of the site, surrogate data has been used. Measurements were undertaken during a lunchtime period adjacent to a comparable school play area. These noise levels, summarised in Table 7 below, have been used to represent worst-case noise levels from both Marsden Primary School and the existing play area to the north.

Table 7: Measured Playground Noise Levels		
Description	Distance from Source (m)	LAeq (dB)
Children's playground during lunch-time	4	58

5.1.6 These areas will only be used during the daytime, as such are not included within the night-time assessment.

Marsden Primary School External Building Service Plant

- 5.1.7 The existing external building services plant at Marsden Primary School has been verified to operate at the noise levels detailed in Table 6. For the purposes of the assessment, this source has been modelled as a point source.
- 5.1.8 Analysis of the 1/3 octave measurement data has been undertaken in accordance with Annex C of BS 4142:2014+A1:2019. As shown in Drawing 5 below, no objective tonality is present. Furthermore, based on site observations, the external plant is not considered to be impulsive.



Drawing 5: One third octave data of external plant

- 5.1.9 The plant is assumed to operate continuously (100% of the time) during the daytime. However, as the plant serves a school, which is only occupied during daytime hours, it is unlikely to operate continuously at night. Therefore, for the night-time assessment, the plant has been modelled with a 50% operational time.
- 5.1.10 Figures 4 and 5 present the predicted noise levels at the closest proposed receptors.
- 5.1.11 The two buildings closest to the existing plant are indicated to comprise 1-bedroom units. Accordingly, receptor heights for these buildings have been set at first-floor level for both daytime and night-time to represent first-floor apartments. All other buildings have been assessed at 1.5 m height during the daytime and 4.0 m height during the night-time.

5.1 Intrinsic Noise Mitigation

- 5.1.1 Plots with garden areas directly adjacent Marsden Primary School will have 1.8m

high acoustic fencing around the perimeter of the garden. The location of this fencing is shown in Figure 6.

- 5.1.2 The acoustic fencing will run continuous to the ground, with no gaps or cracks, and have a minimum superficial mass of 10-12kg/m².

5.2 Noise Model Factors, Limitations and Uncertainties

- 5.2.1 The noise models presented in this assessment calculate noise propagation to the methodologies contained within ISO 9613-2 Acoustic – Attenuation of sound during propagation outdoors. This gives a higher level of accuracy for the level of attenuation provided by intervening topography and barriers than the method provided by BS5228.
- 5.2.2 All noise level predictions are based on simplified models of sound generation and propagation; however, some local conditions such as gusts of wind or bursts of turbulence in the air are too complex to be factored into the algorithms.
- 5.2.3 The noise models may therefore be subject to some minor uncertainties; however, it is noted that all predictions assume theoretical down-wind propagation from all sources to all receptors, and as such the models are more likely to over-predict noise levels compared to real-life conditions.
- 5.2.4 The primary factor that governs the validity of the models is the quality of the input data. As such, all practicable means have been explored to ensure that the data used in the models is as accurate as possible.

6 BS8233 ASSESSMENT OF NOISE LEVELS IN LIVING ROOMS AND BEDROOMS

6.1 Gardens During the Daytime

- 6.1.1 In accordance with BS8233, the upper guidance noise level in gardens is 55dB LAeq,16h.
- 6.1.2 As shown at Figure 1, with the acoustic fencing included, based on the proposed layout, all plots achieve the guidance noise level during the daytime period.

6.2 Living Rooms and Bedrooms During the Daytime

- 6.2.1 During the daytime period, BS8233 recommends a guidance level of 35dB LAeq,16h inside living room and bedroom areas.
- 6.2.2 WHO (1999) indicates that with a window partially open for ventilation, approximately 15dB of attenuation from external noise sources should be

achieved.

6.2.3 On this basis, living rooms and bedrooms towards the west of the site, adjacent to Lizard Lane and receptors towards the south of the site directly adjacent Marsden Primary School, will not achieve internal guidance levels without the provision of some form of acoustic ventilation and enhanced glazing.

6.2.4 Appropriate mitigation measures are discussed in Section 8.

6.3 Bedrooms During the Night-time

6.3.1 During the night-time period, BS8233 recommends a guidance level of 30dB LAeq,8h and 45dB LAmax inside bedroom areas.

6.3.2 As per the daytime assessment, bedrooms towards the west of the site, adjacent to Lizard Lane and also bedrooms towards the east of the site, adjacent Augusta Terrace, will not achieve internal guidance levels without the provision of some form of acoustic ventilation and enhanced glazing.

6.3.3 Appropriate mitigation measures are discussed in Section 8.

7 BS4142 ASSESSMENT

7.1 Background Noise Levels

7.1.1 To derive appropriate modal background noise levels, noise measurements from ML1 have been considered.

Table 8: Summary of Ambient and Background Noise Levels (dB) – ML1	
Assessment Period	LA90
0700 – 2300h	37
2300 – 0700h	34

7.1.2 The selected levels are considered representative of those experienced at the proposed development.

7.2 Building Services Plant Noise Assessment

7.2.1 Table 9 below presents the findings of the BS4142 assessment for the existing building services plant during the daytime and night-time periods.

Table 9: BS4142 Assessment

Results	Noise level (dB)		Commentary
	Day	Night	
Specific sound level	42	39	Based on the calculated levels from Figures 4 and 5
Acoustic feature correction	0	+3	As detailed in section 5.1, following a review of the 1/3 octave data, no tonal characteristic is present. The plant is also not considered to be impulsive. The plant has been assessed assuming 100% operation during the daytime. Therefore, no acoustic correction is applicable and therefore none has been applied. As the plant may run at a reduced capacity at night, a correction for intermittency has been applied during the night-time.
Rating level	42	42	Specific noise level corrected for acoustic features
Background sound level	37	34	Reference Table 8
Excess of rating over background sound level	+5	+8	Rating level minus background level
Initial assessment of impact	A	A	Negligible (N); Low (L); Minor Adverse (M/A); Adverse (A); Significant Adverse (S/A)
Assessment of Context	The initial assessment indicates that noise associated with existing building services plant is likely to result in an adverse impact during the daytime and night-time, depending on the context. The context is assessed below: The highest specific noise level is significantly lower than the residual noise levels (53dBA during the day and 45dBA during the night) at the receptor locations and will therefore not likely contribute significantly to the ambient noise due to the dominance of road traffic noise. The specific noise level is below the BS8233 guidance level of 35dB LAeq,16h / 30 dB LAeq,8h in bedrooms, assuming 15dB of attenuation for a partially open window. Noise levels in gardens are below the desirable guidance of 50dB LAeq.		
Conclusion	Based on the assessment of context presented above, on balance it is concluded that noise may at times be perceptible, but should not be at a level that would result in changes in behaviour or attitude to the receptor. As such, the impact is expected to reside between around the LOAEL in accordance with the NPSE. Although no significant effects are anticipated, it is recommended that additional mitigation is considered to ensure any residual effects are reduced to a minimum.		

8 MITIGATION

8.1 Gardens During the Daytime

8.1.1 The garden areas achieve the relevant criteria across the site and therefore no additional mitigation is required for external amenity spaces.

8.2 Living Rooms and Bedrooms

8.2.1 The receiving rooms subject to the highest potential impact are generally those with the greatest ratio of window area to room volume, in closest proximity to the dominant noise sources surrounding the development.

8.2.2 Based on the results from Figures 1 to 3, the levels of attenuation required to achieve the internal guidance levels for noise sensitive rooms on all elevations of the development are summarised in Table 10 below.

Table 10: Attenuation requirements			
	L _{Aeq,16h}	L _{Aeq,8h}	L _{Amax}
Level at façade of receptor (dBA)	54	47	68
Guidance Level (dBA)	35	30	45
Level of attenuation required (dBA)	19	17	23

8.2.3 BS8233 and BS EN12354-3 provide equations for performing detailed noise break-in for composite facades and individual façade elements such as ventilators. The equations are shown below.

$$L_2 = L_{1,in} - R + 10 \times \log(S/V) + 10 \times \log(T) + 11$$

$$L_2 = L_{1,in} - D_{n,e} - 10 \times \log(V) + 10 \times \log(T) + 21$$

8.2.4 The equations have been followed, with the results summarised in Table 11 below. The calculation has been undertaken for the most exposed plots.

8.2.5 The glazing specification detailed is the client's standard specification, and the ventilation specification is the client's standard specification when ventilation is required for noise purposes.

Table 11: Summary of Calculated Levels						
	Total Area / No. Vents	125Hz	250Hz	500 Hz	1kHz	2kHz
Glazing; Rw + Ctr 27 dB (e.g 4/16/4mm or equivalent)	2.5m²	25	18	26	38	42
Acoustic Ventilation; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5)	-	-	-	-	-	-
Composite Façade Attenuation	30 dB					
Summary of Calculated Noise Levels						
	Daytime (dB LAeq)		Night-time (dB LAeq)		Night-time (dB LAmaz)	
External Noise Level	54		47		68	
Internal Noise Level	24		17		38	

- 8.2.6 The results demonstrate that with the clients standard glazing specification and ventilation scheme the internal guidance levels will be achieved.
- 8.2.7 Further into the centre of the site, the noise levels will reduce significantly as can be seen in the attached figures and therefore acoustic ventilation will not be required.
- 8.2.8 The full recommendations are summarised as part of the Acoustic Design Statement in the following Section and are shown on a plot-by-plot basis in Figures 6 and 7.

8.3 Mitigation for Industrial/Commercial Noise

- 8.3.1 Living rooms and bedrooms located on the southern boundary, directly adjacent existing building service plant at Marsden Primary School are likely to be exposed to an element of industrial/commercial noise, as such it is proposed that a scheme of glazing and ventilation is introduced to minimise noise levels impacting sensitive internal areas.
- 8.3.2 As shown in Figure 1, the highest modelled noise levels from road traffic noise

across the site during the daytime period is 54dB LAeq,16h, and during the night-time is 47dB LAeq, 8h, both of which are higher than the specific noise level of 42dB LAeq (daytime) and 39dB LAeq (night-time), which is predicted at the closest façade of the proposed residential dwelling. Therefore, any ventilation and glazing specification required to meet internal noise levels from road traffic noise will also be suitable for the level of industrial/commercial noise.

8.3.3 As the level of glazing and ventilation required for properties adjacent the surrounding road will be determined from modelled road traffic noise, for robustness, the same specification of glazing and ventilation will be applied for these properties.

8.3.4 Given the size and scale of the site, along with the dwelling types proposed at this section of the site, the introduction of physical screening between the proposed dwellings and existing plant is not a viable, nor is the repositioning of sensitive spaces within the dwelling. Therefore, the only feasible mitigation measure would be to introduce additional façade insulation.

8.3.5 BS4142:2014+A1:2019 states the following:

'Where the initial estimate of the impact needs to be modified due to the context, take all pertinent factors in consideration, including the following...

... The sensitivity of the receptor and whether dwellings or other premises used for residential purposes will already incorporate design measures that secure good internal and/or outdoor acoustic conditions, such as:

- i) Façade insulation treatment;*
- ii) Ventilation and/or cooling that will reduce the need to have windows open as to provide rapid or purge ventilation...'*

8.3.6 Therefore, including the mitigation as described above, will reduce the noise impact associated with existing building service plant to be at or below the 'LOAEL' in accordance with the NPSE and PPG.

9 ACOUSTIC DESIGN STATEMENT

9.1 Introduction

9.1.1 In accordance with the ProPG: Planning and Noise, an acoustic design statement has been prepared to supplement the noise assessment report.

- 9.1.2 The statement has been informed by the results presented in the previous sections of this report, and also based on the discussions, processes and limitations considered during the design of the development prior to submission of this planning application.

9.2 Internal Guidance Levels

- 9.2.1 The ProPG recommends where it is not considered practical to achieve the internal noise level guidelines with windows open, justification should be provided to the LPA setting out the reasons for this.
- 9.2.2 To ensure that land is utilised in an efficient and economical way, increasing the stand-off from the surrounding noise sources, or introducing acoustic barriers / landscape bunds, are not considered a viable option.
- 9.2.3 The only other viable means for reducing internal noise levels to an acceptable standard would therefore be through either the reorientation of internal layouts (i.e., moving noise sensitive rooms away from the main noise sources) or through the use of an alternative means of ventilation.
- 9.2.4 Due to the space constraints associated with the location of the site, the reorientation of bedrooms is not considered a realistic, economical or proportionate solution.
- 9.2.5 It is therefore recommended that the most practical solution to achieve guidance levels is through the reliance on some form of enhanced glazing and acoustic ventilation in noise sensitive rooms.
- 9.2.6 Where limiting factors exist that make achieving internal guidance levels with windows open impractical, acoustic ventilation is considered a suitable solution that meets the good acoustic design test, as per Paragraph 2.33 to 2.34 of the ProPG, which states:

"It should be noted that the acoustic performance of the building envelope will be reduced in the event windows are opened for ventilation or cooling purposes, typically reducing the insulation to no more than 10 to 15 dB(A).

Most residents value the ability to open windows at will, for a variety of reasons, and LPAs should therefore normally request that designers principally aim, through the use of good acoustic design, to achieve the internal noise level guidelines in noise-sensitive rooms with windows open. Where internal noise levels

are assessed with windows closed the justification for this should be included in the ADS.

Where the LPA accepts that there is a justification that the internal target noise levels can only be practically achieved with windows closed, which may be the case in urban areas and at sites adjacent to transportation noise sources, special care must be taken to design the accommodation so that it provides good standards of acoustics, ventilation and thermal comfort without unduly compromising other aspects of the living environment.

In such circumstances, internal noise levels can be assessed with windows closed but with any façade openings used to provide “whole dwelling ventilation” in accordance with Building Regulations Approved Document F (e.g. trickle ventilators) in the open position (see Supplementary Document 2). Furthermore, in this scenario the internal LAeq target noise levels should not generally be exceeded.”

- 9.2.7 It is felt that in this circumstance, with due consideration to the factors set out above, achieving the guidance levels through use of enhanced glazing and an alternative means of ventilation is a suitable solution that meets the good acoustic design test.

10 ACOUSTIC DESIGN SUMMARY

- 10.1.1 Table 12 summarises the recommendations for glazing and ventilation across the site.

Table 12: Glazing and ventilation requirements summary

Location	Glazing	Ventilation
Living rooms and bedrooms on elevations to the east, south and west	Rw + Ctr 27 dB (e.g., 4/16/4 or equivalent)	Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5)
Notes: These recommendations apply to noise sensitive rooms (living rooms and bedrooms) as shown on Figures 6 and 7. It should be noted that the above mitigation strategy assumes a Positive Input Ventilation (PIV) system being installed. If continuous or intermittent extract systems were to be installed, then the equivalent area of background ventilation will need to be increased in accordance with Approved Document Part F. This may result in an increased number / specification of vents required which in turn may result in a higher specification requirement for the glazing for which it is cited. The final glazing and ventilation design should be reviewed by an acoustician.		

11 OVERHEATING

11.1.1 Building Regulations Approved Document Part O was published on 15th June 2022. Section 3 states the following in relation to noise:

"In locations where external noise may be an issue (for example, where the local planning authority considered external noise to be an issue at the planning stage), the overheating mitigation strategy should take account of the likelihood that windows will be closed during sleeping hours (11pm to 7am).

Windows are likely to be closed during sleeping hours if noise within bedrooms exceeds the following limits.

- a. 40 dB LAeq,T, averaged over 8 hours (between 11pm and 7am).
- b. 55 dB LAFmax, more than 10 times a night (between 11pm and 7am).

Where in-situ noise measurements are used as evidence that these limits are not exceeded measurements should be taken in accordance with the Association of Noise Consultants' Measurement of Sound Level in Buildings with the overheating mitigation strategy in use."

11.1.2 Whilst the document relates to the Building Regulations, it has been considered within this assessment at the planning stage as the most appropriate guidance

to follow to identify which elevations are likely to exceed the criteria outlined above. This is based on the measured and resulting modelled noise levels identified within this report.

11.1.3 With reference to the Approved Document O Noise Guide (November 2024), 10dB of attenuation from an open window should be assumed when evaluating moderate risk locations, i.e. those located outside of London. This would therefore equate to the following external noise limits at the elevations of the plots in question:

- $40\text{dB LAeq,T} + 10\text{dB attenuation} = 50\text{dB LAeq,T externally}$
- $55\text{dB LAmax} + 10\text{dB attenuation} = 65\text{dB LAmax externally}$

11.1.4 Resultant noise levels are shown within the sections above. Based on these modelled noise levels, plots to the west of the site are unlikely to be able to rely on openable windows for ventilation purposes and therefore a ventilation strategy has been designed accordingly above.

11.1.5 It should be noted that windows will be openable (i.e., not sealed) and residents have the choice to open windows if required, whilst accepting that the guideline internal noise levels are exceeded.

11.1.6 However, as the identified areas are unable to rely on openable windows to provide ventilation, an overheating assessment may be required to comply with Building Regulations, i.e., post planning.

12 CONCLUSION

12.1 Introduction

12.1.1 NJD Environmental Associates has undertaken a noise assessment to accompany a planning application sought for a proposed residential development on Land off Mill Lane, Whitburn.

12.2 BS8233 Assessment

12.2.1 The BS8233:2014 assessment found that, with the inclusion of 1.8m high barriers around the gardens of the plots along the southern edge of the site, the upper guidance noise level in garden areas is achieved across the site. The location of the barriers is shown in on Figure 6.

12.2.2 Internal noise levels can generally be achieved across the site with windows open. However, a number of plots located towards the eastern, southern and western boundaries will require a scheme of glazing and alternative means of ventilation to achieve the guidance noise levels.

12.2.3 Noise break-in calculations have demonstrated an appropriate scheme of glazing and ventilation that can be adopted, with the details summarised in Table 12 and shown on a plot-by-plot basis on Figures 6 and 7.

12.2.4 The Acoustic Design Statement concluded that based on the site context and limitations, reasonable means have been taken to ensure the recommendations pass the good acoustic design test in accordance with the ProPG.

12.3 BS4142 Assessment

12.3.1 The main industrial/commercial sources found to be impacting the site were related to existing building service plant associated with Marsden Primary School to the south of the site.

12.3.2 Source measurements were taken of the plant at the site boundary.

12.3.3 Based on the measured data, without mitigation, noise levels were found to have the potential to adversely affect receptors. A scheme of mitigation was therefore outlined in order to reduce any effects to a minimum.

12.3.4 In accordance with the NPSE, with the additional mitigation provided, the noise effect will be at or below the LOAEL in accordance with the NPSE and PPG Noise.

12.4 Overheating

- 12.4.1 Night-time noise levels identified that plots located to the west of the site are likely to exceed the noise criteria outlined within Approved Document Part O and therefore are unable to rely on openable windows to mitigate overheating. An overheating assessment may therefore be required.

12.5 Conclusion

- 12.5.1 It is concluded that subject to the recommended mitigation measures being implemented, noise should not be a prohibitive factor in the determination of this planning application.



Environmental Associates

NJD Environmental Associates LTD

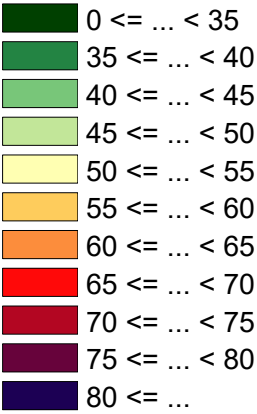
www.njdenvironmental.co.uk

Company Registration No 10956987





Figure 1:
Daytime LAeq,16hr
(1.5m receptor height)



Date:
July
2026

njd
Environmental Associates

Client:
Story Homes Ltd

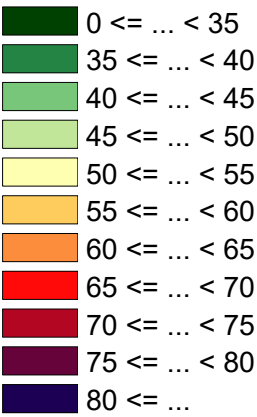
Job Title:
NJD25-0074
Land off Mill Lane, Whitburn

Drawn By:
S Griffith

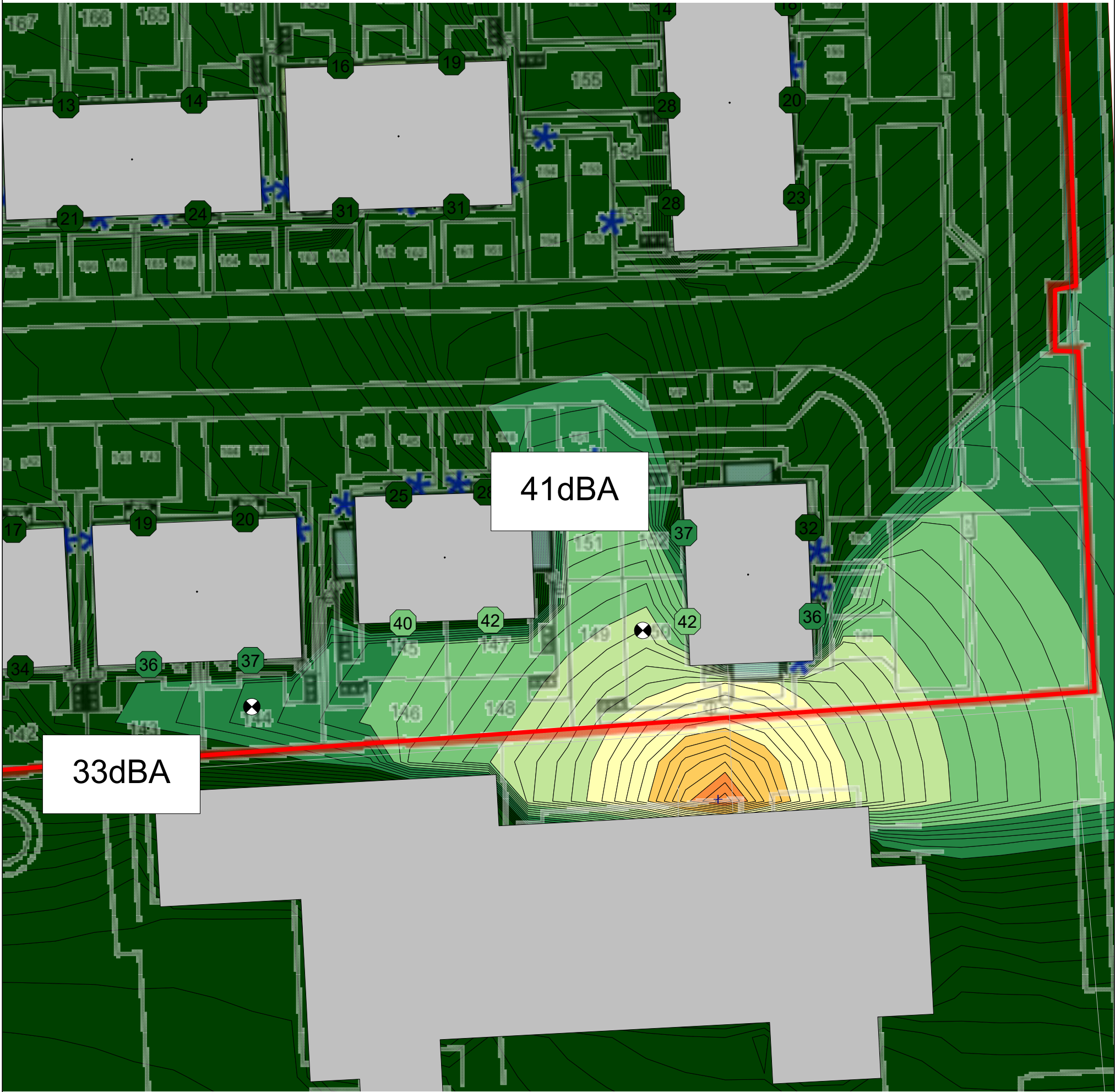




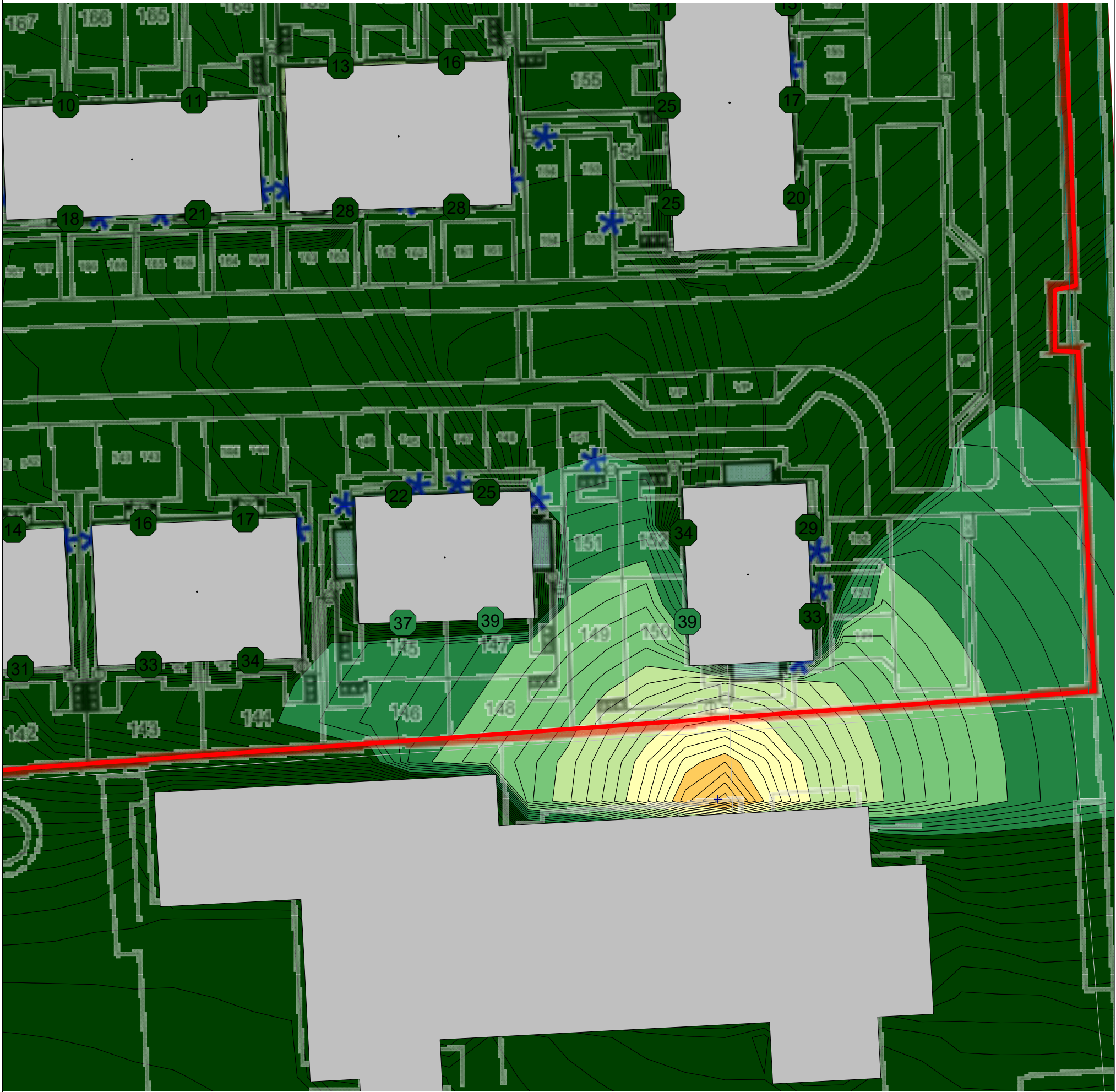
Figure 3:
Night-time LAmax
(4.0m receptor height)



Date:
July
2026



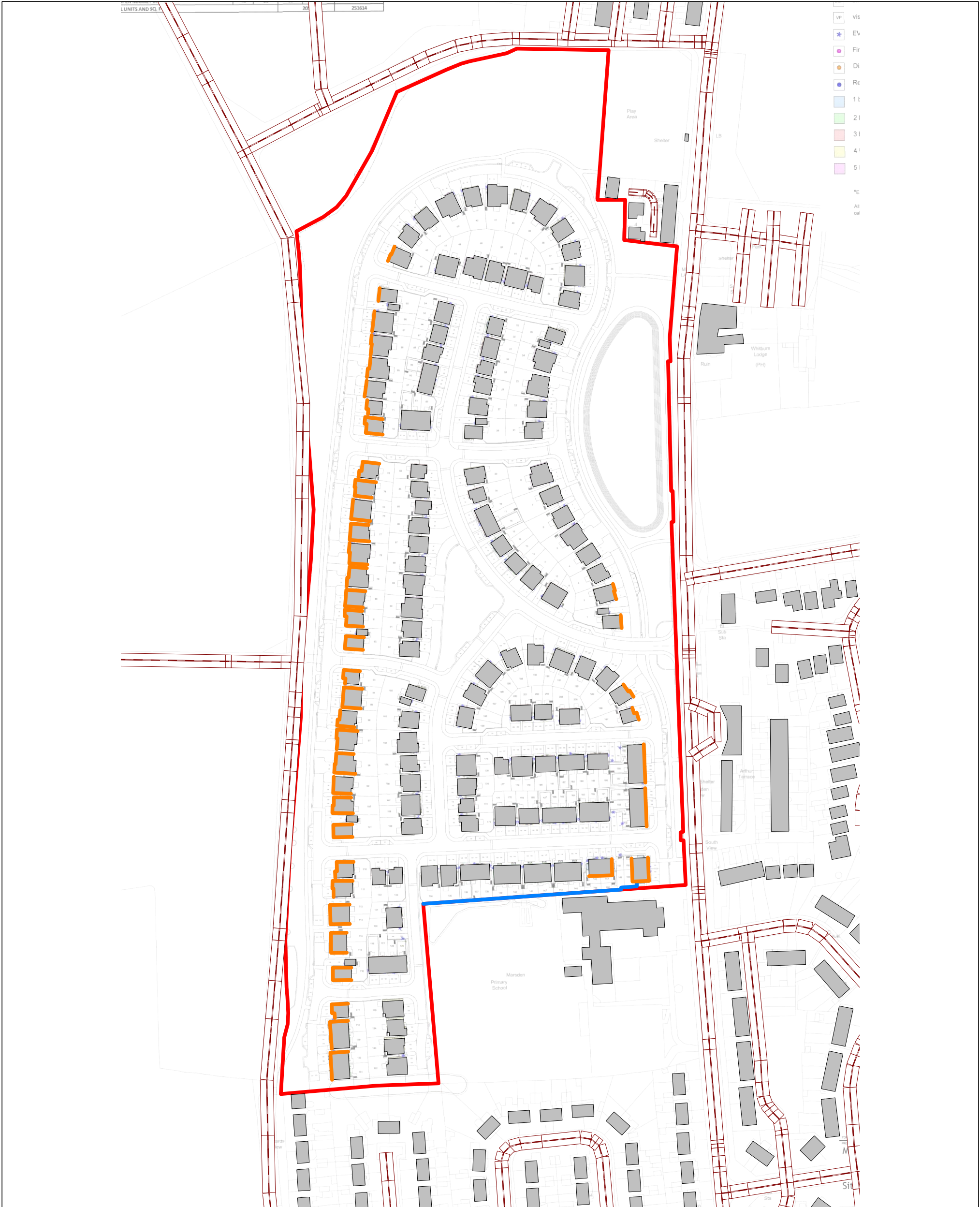
	Client: Story Homes Ltd Job Title: NJD25-0074 Land of Mill Lane, Whitburn	Figure 4: Daytime Sepcific Noise Levels LAeq, 1 hour (1.5m grid height) Drawn By: S Griffith	0 <= ... < 35 35 <= ... < 40 40 <= ... < 45 45 <= ... < 50 50 <= ... < 55 55 <= ... < 60 60 <= ... < 65 65 <= ... < 70 70 <= ... < 75 75 <= ... < 80 80 <= ...	 Date: July 2026
---	---	--	--	---



	Client: Story Homes Ltd	Figure 5: Night-time Sepcific Noise Levels LAeq, 15-minute (4.0m grid height)	0 <= ... < 35 35 <= ... < 40 40 <= ... < 45 45 <= ... < 50 50 <= ... < 55 55 <= ... < 60 60 <= ... < 65 65 <= ... < 70 70 <= ... < 75 75 <= ... < 80 80 <= ...	 Date: July 2026
	Job Title: NJD25-0074 Land of Mill Lane, Whitburn	Drawn By: S Griffith		



	Client: Story Homes Ltd	Figure 6: Glazing and Ventilation Strategy - Living Rooms	<table><tr><th>Key:</th><th>Mitigation:</th></tr><tr><td></td><td>1.8m high acoustic fencing Rw + Ctr 27dB (e.g.4/16/4mm) glazing; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5 or equivalent)</td></tr><tr><td colspan="2">Unmarked facades have no specific requirements</td></tr></table>	Key:	Mitigation:		1.8m high acoustic fencing Rw + Ctr 27dB (e.g.4/16/4mm) glazing; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5 or equivalent)	Unmarked facades have no specific requirements		 Date: July 2026
	Key:	Mitigation:								
	1.8m high acoustic fencing Rw + Ctr 27dB (e.g.4/16/4mm) glazing; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5 or equivalent)									
Unmarked facades have no specific requirements										
Job Title: NJD25-0074 Land of Mill Lane, Whitburn	Drawn By: S Griffith									



	Client: Story Homes Ltd	Figure 7: Glazing and Ventilation Strategy - Bedrooms	<table><tr><th>Key:</th><th>Mitigation:</th></tr><tr><td></td><td>1.8m high acoustic fencing Rw + Ctr 27dB (e.g.4/16/4mm) glazing; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5 or equivalent)</td></tr><tr><td colspan="2">Unmarked facades have no specific requirements</td></tr></table>	Key:	Mitigation:		1.8m high acoustic fencing Rw + Ctr 27dB (e.g.4/16/4mm) glazing; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5 or equivalent)	Unmarked facades have no specific requirements		 Date: July 2026
	Key:	Mitigation:								
	1.8m high acoustic fencing Rw + Ctr 27dB (e.g.4/16/4mm) glazing; Positive Input Ventilation (PIV) (Envirovent 001-10-032-PCR System 5 or equivalent)									
Unmarked facades have no specific requirements										
Job Title: NJD25-0074 Land of Mill Lane, Whitburn	Drawn By: S Griffith									

Appendix 1: Noise Measurements

File	20250506_102704_000000_1.CMG					
Location	ML1					
Data type	Leq					
Weighting	A					
Unit	dB					
Start	06/05/2025 00:00:00					
End	10/05/2025 00:00:00					
Period	Daytime (LAeq)					
Time slots	LAeq,16h	07:00	23:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Tue 06/05/2025	53.8	53.8	33.7	84.5	35.4	58.0
Wed 07/05/2025	53.4	53.4	33.8	77.0	35.9	57.9
Thu 08/05/2025	53.7	53.7	33.8	76.8	36.6	58.2
Fri 09/05/2025	53.7	53.7	34.2	70.6	36.2	58.2
Period	Night-time (LAeq)					
Time slots	LAeq,8h	23:00	07:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Tue 06/05/2025	44.6	44.6	33.4	70.7	33.6	40.3
Wed 07/05/2025	44.6	44.6	33.7	69.7	33.8	39.4
Thu 08/05/2025	46.3	46.3	33.6	75.3	33.7	42.9
Fri 09/05/2025						

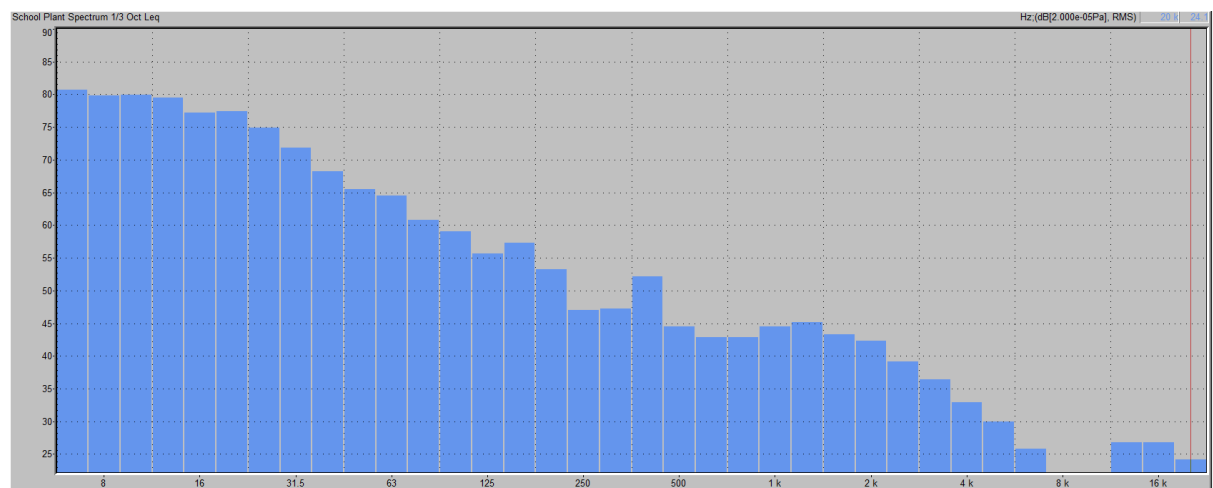
File	20250506_184026_000000_1.CMG					
Location	ML2					
Data type	Leq					
Weighting	A					
Unit	dB					
Start	06/05/2025 00:00:00					
End	10/05/2025 00:00:00					
Period	Daytime (LAeq)					
Time slots	LAeq,16h	07:00	23:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Tue 06/05/2025	58.7	58.7	29.1	83.3	38.8	53.0
Wed 07/05/2025	61.1	61.1	30.5	91.2	42.0	59.6
Thu 08/05/2025	61.8	61.8	31.7	89.3	41.6	60.5
Fri 09/05/2025	61.2	61.2	34.1	81.1	39.3	59.4
Period	Night-time (LAeq)					
Time slots	LAeq,8h	23:00	07:00	K = 0 dBA		
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Tue 06/05/2025	51.5	51.5	27.2	81.4	30.3	44.6
Wed 07/05/2025	50.5	50.5	25.2	80.0	28.9	42.5
Thu 08/05/2025	52.5	52.5	22.8	81.4	28.7	45.4
Fri 09/05/2025						

File	20250509_103312_103504_1.CMG					
Location	ML3					
Data type	Leq					
Weighting	A					
Unit	dB					
Start	09/05/2025 00:00:00					
End	12/05/2025 00:00:00					
Period	Daytime (LAeq)					
Time slots	LAeq,16h 07:00 23:00 K = 0 dBA					
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Fri 09/05/2025	50.9	50.9	33.4	74.0	45.3	53.0
Sat 10/05/2025	50.8	50.8	32.9	78.7	44.0	53.1
Sun 11/05/2025	50.5	50.5	30.7	70.0	43.1	53.1
Period	Night-time (LAeq)					
Time slots	LAeq,8h 23:00 07:00 K = 0 dBA					
Day	LAeq dB	Leq dB	Lmin dB	Lmax dB	L90 dB	L10 dB
Fri 09/05/2025	43.3	43.3	26.7	70.1	30.1	46.6
Sat 10/05/2025	43.4	43.4	27.2	65.5	30.8	47.0
Sun 11/05/2025						

School Plant Measurements

File	20251114_094005_094036_1.CMG			
Start	14/11/2025 09:40:05			
End	14/11/2025 09:40:37			
Channel	Type	Wght	Unit	Leq
School Plant	Leq	A	dB	55.2

File	20251114_094005_094036_1.CMG			
Start	14/11/2025 09:40:05			
End	14/11/2025 09:40:37			
Channel	Type	Wght	Unit	Leq
School Plant	Oct 8Hz	Lin	dB	84.9
School Plant	Oct 16Hz	Lin	dB	82.9
School Plant	Oct 31.5Hz	Lin	dB	77.2
School Plant	Oct 63Hz	Lin	dB	68.7
School Plant	Oct 125Hz	Lin	dB	62.3
School Plant	Oct 250Hz	Lin	dB	54.9
School Plant	Oct 500Hz	Lin	dB	53.2
School Plant	Oct 1kHz	Lin	dB	49.0
School Plant	Oct 2kHz	Lin	dB	46.7
School Plant	Oct 4kHz	Lin	dB	38.6
School Plant	Oct 8kHz	Lin	dB	28.4
School Plant	Oct 16kHz	Lin	dB	30.8



07/05/2025 00:59	34	08/05/2025 00:59	34.1	09/05/2025 00:59	34.1
07/05/2025 01:00	38.8	08/05/2025 01:00	34.1	09/05/2025 01:00	34.1
07/05/2025 01:01	55	08/05/2025 01:01	34	09/05/2025 01:01	34.1
07/05/2025 01:02	34	08/05/2025 01:02	34.1	09/05/2025 01:02	34
07/05/2025 01:03	38.7	08/05/2025 01:03	34.4	09/05/2025 01:03	34.1
07/05/2025 01:04	35.4	08/05/2025 01:04	63.4	09/05/2025 01:04	34.1
07/05/2025 01:05	33.9	08/05/2025 01:05	34.6	09/05/2025 01:05	34.1
07/05/2025 01:06	33.9	08/05/2025 01:06	34	09/05/2025 01:06	34.1
07/05/2025 01:07	33.9	08/05/2025 01:07	34.1	09/05/2025 01:07	37
07/05/2025 01:08	33.9	08/05/2025 01:08	66.5	09/05/2025 01:08	55.2
07/05/2025 01:09	34	08/05/2025 01:09	39.8	09/05/2025 01:09	34.1
07/05/2025 01:10	33.9	08/05/2025 01:10	34	09/05/2025 01:10	43.8
07/05/2025 01:11	33.9	08/05/2025 01:11	34	09/05/2025 01:11	65.3
07/05/2025 01:12	34.2	08/05/2025 01:12	35	09/05/2025 01:12	62.9
07/05/2025 01:13	36.3	08/05/2025 01:13	34.1	09/05/2025 01:13	37.2
07/05/2025 01:14	61.1	08/05/2025 01:14	35.2	09/05/2025 01:14	34.1
07/05/2025 01:15	51.9	08/05/2025 01:15	59.1	09/05/2025 01:15	34.2
07/05/2025 01:16	34.1	08/05/2025 01:16	34.1	09/05/2025 01:16	34
07/05/2025 01:17	56.9	08/05/2025 01:17	66.3	09/05/2025 01:17	34
07/05/2025 01:18	34.2	08/05/2025 01:18	49.8	09/05/2025 01:18	34.3
07/05/2025 01:19	33.9	08/05/2025 01:19	34	09/05/2025 01:19	60.5
07/05/2025 01:20	33.9	08/05/2025 01:20	34.1	09/05/2025 01:20	37.7
07/05/2025 01:21	33.9	08/05/2025 01:21	34.1	09/05/2025 01:21	34.1
07/05/2025 01:22	34	08/05/2025 01:22	62.9	09/05/2025 01:22	60.4
07/05/2025 01:23	33.9	08/05/2025 01:23	38.4	09/05/2025 01:23	64.9
07/05/2025 01:24	33.9	08/05/2025 01:24	55.4	09/05/2025 01:24	70.3
07/05/2025 01:25	33.9	08/05/2025 01:25	34	09/05/2025 01:25	55
07/05/2025 01:26	40	08/05/2025 01:26	34.1	09/05/2025 01:26	39.9
07/05/2025 01:27	34	08/05/2025 01:27	34	09/05/2025 01:27	44.7
07/05/2025 01:28	34	08/05/2025 01:28	34	09/05/2025 01:28	34.3
07/05/2025 01:29	33.9	08/05/2025 01:29	34.8	09/05/2025 01:29	35.1
07/05/2025 01:30	33.9	08/05/2025 01:30	34.3	09/05/2025 01:30	61.4
07/05/2025 01:31	34	08/05/2025 01:31	54.5	09/05/2025 01:31	60.3
07/05/2025 01:32	33.9	08/05/2025 01:32	57	09/05/2025 01:32	34.4
07/05/2025 01:33	33.9	08/05/2025 01:33	60.3	09/05/2025 01:33	34.1
07/05/2025 01:34	33.9	08/05/2025 01:34	35.9	09/05/2025 01:34	35.1
07/05/2025 01:35	33.9	08/05/2025 01:35	34.1	09/05/2025 01:35	34.8
07/05/2025 01:36	33.9	08/05/2025 01:36	34.1	09/05/2025 01:36	34
07/05/2025 01:37	37.9	08/05/2025 01:37	34	09/05/2025 01:37	34
07/05/2025 01:38	53.9	08/05/2025 01:38	34.1	09/05/2025 01:38	34.1
07/05/2025 01:39	33.9	08/05/2025 01:39	34	09/05/2025 01:39	49.2
07/05/2025 01:40	33.9	08/05/2025 01:40	34.1	09/05/2025 01:40	63.8
07/05/2025 01:41	33.9	08/05/2025 01:41	36.6	09/05/2025 01:41	34
07/05/2025 01:42	33.9	08/05/2025 01:42	63.9	09/05/2025 01:42	34
07/05/2025 01:43	34.3	08/05/2025 01:43	59.6	09/05/2025 01:43	34
07/05/2025 01:44	33.9	08/05/2025 01:44	34.6	09/05/2025 01:44	34
07/05/2025 01:45	33.9	08/05/2025 01:45	55.7	09/05/2025 01:45	35.6
07/05/2025 01:46	34.4	08/05/2025 01:46	34.3	09/05/2025 01:46	57.6
07/05/2025 01:47	34.6	08/05/2025 01:47	34.1	09/05/2025 01:47	36.4
07/05/2025 01:48	34.1	08/05/2025 01:48	60.5	09/05/2025 01:48	34.3
07/05/2025 01:49	33.9	08/05/2025 01:49	37.2	09/05/2025 01:49	58.4
07/05/2025 01:50	33.9	08/05/2025 01:50	34.1	09/05/2025 01:50	35.9
07/05/2025 01:51	34.2	08/05/2025 01:51	36.5	09/05/2025 01:51	34.1
07/05/2025 01:52	34.4	08/05/2025 01:52	55.1	09/05/2025 01:52	34.2
07/05/2025 01:53	34.1	08/05/2025 01:53	34.1	09/05/2025 01:53	34.1
07/05/2025 01:54	60.8	08/05/2025 01:54	34	09/05/2025 01:54	34.1
07/05/2025 01:55	33.9	08/05/2025 01:55	34.1	09/05/2025 01:55	34
07/05/2025 01:56	33.9	08/05/2025 01:56	34.1	09/05/2025 01:56	34.3
07/05/2025 01:57	33.9	08/05/2025 01:57	34	09/05/2025 01:57	34.1
07/05/2025 01:58	34.4	08/05/2025 01:58	34	09/05/2025 01:58	34
07/05/2025 01:59	34.6	08/05/2025 01:59	34.5	09/05/2025 01:59	34
07/05/2025 02:00	61.2	08/05/2025 02:00	34.2	09/05/2025 02:00	34
07/05/2025 02:01	33.9	08/05/2025 02:01	34.1	09/05/2025 02:01	34
07/05/2025 02:02	33.9	08/05/2025 02:02	34.1	09/05/2025 02:02	34.9
07/05/2025 02:03	33.9	08/05/2025 02:03	37.7	09/05/2025 02:03	52.7
07/05/2025 02:04	33.9	08/05/2025 02:04	34.7	09/05/2025 02:04	34
07/05/2025 02:05	33.9	08/05/2025 02:05	34.1	09/05/2025 02:05	34.1
07/05/2025 02:06	33.8	08/05/2025 02:06	58.7	09/05/2025 02:06	35
07/05/2025 02:07	33.9	08/05/2025 02:07	36.2	09/05/2025 02:07	55.5
07/05/2025 02:08	33.9	08/05/2025 02:08	34	09/05/2025 02:08	35.5
07/05/2025 02:09	33.9	08/05/2025 02:09	34	09/05/2025 02:09	34.8
07/05/2025 02:10	56.9	08/05/2025 02:10	34	09/05/2025 02:10	34
07/05/2025 02:11	67.4	08/05/2025 02:11	34.1	09/05/2025 02:11	34
07/05/2025 02:12	34	08/05/2025 02:12	34.5	09/05/2025 02:12	34.1
07/05/2025 02:13	33.8	08/05/2025 02:13	34.1	09/05/2025 02:13	35.5
07/05/2025 02:14	33.8	08/05/2025 02:14	34.1	09/05/2025 02:14	62.5
07/05/2025 02:15	35.5	08/05/2025 02:15	34	09/05/2025 02:15	61.3
07/05/2025 02:16	36	08/05/2025 02:16	34	09/05/2025 02:16	37.1
07/05/2025 02:17	68.9	08/05/2025 02:17	34	09/05/2025 02:17	34
07/05/2025 02:18	34.1	08/05/2025 02:18	34	09/05/2025 02:18	34.8
07/05/2025 02:19	33.9	08/05/2025 02:19	34	09/05/2025 02:19	35.1
07/05/2025 02:20	33.8	08/05/2025 02:20	34	09/05/2025 02:20	34.1
07/05/2025 02:21	33.8	08/05/2025 02:21	34.1	09/05/2025 02:21	34.3
07/05/2025 02:22	33.8	08/05/2025 02:22	34.1	09/05/2025 02:22	37.3
07/05/2025 02:23	33.8	08/05/2025 02:23	34	09/05/2025 02:23	34.1
07/05/2025 02:24	34.7	08/05/2025 02:24	34.1	09/05/2025 02:24	34.3
07/05/2025 02:25	33.9	08/05/2025 02:25	34.1	09/05/2025 02:25	34
07/05/2025 02:26	33.8	08/05/2025 02:26	34.1	09/05/2025 02:26	34
07/05/2025 02:27	33.8	08/05/2025 02:27	41.1	09/05/2025 02:27	34.1
07/05/2025 02:28	33.8	08/05/2025 02:28	54	09/05/2025 02:28	34.1
07/05/2025 02:29	33.8	08/05/2025 02:29	34	09/05/2025 02:29	34.1
07/05/2025 02:30	34.1	08/05/2025 02:30	34	09/05/2025 02:30	34.1
07/05/2025 02:31	33.8	08/05/2025 02:31	34.1	09/05/2025 02:31	34.1
07/05/2025 02:32	33.8	08/05/2025 02:32	34.1	09/05/2025 02:32	34.1
07/05/2025 02:33	33.9	08/05/2025 02:33	34.1	09/05/2025 02:33	34.1
07/05/2025 02:34	33.8	08/05/2025 02:34	62.5	09/05/2025 02:34	34.1
07/05/2025 02:35	33.8	08/05/2025 02:35	55	09/05/2025 02:35	34.1
07/05/2025 02:36	33.8	08/05/2025 02:36	34.1	09/05/2025 02:36	34
07/05/2025 02:37	33.8	08/05/2025 02:37	34	09/05/2025 02:37	34
07/05/2025 02:38	33.8	08/05/2025 02:38	34.1	09/05/2025 02:38	34
07/05/2025 02:39	60.9	08/05/2025 02:39	34.1	09/05/2025 02:39	34
07/05/2025 02:40	37.2	08/05/2025 02:40	34.1	09/05/2025 02:40	34
07/05/2025 02:41	33.9	08/05/2025 02:41	34.1	09/05/2025 02:41	34
07/05/2025 02:42	33.8	08/05/2025 02:42	34.5	09/05/2025 02:42	34
07/05/2025 02:43	33.9	08/05/2025 02:43	62.3	09/05/2025 02:43	34
07/05/2025 02:44	33.9	08/05/2025 02:44	34.2	09/05/2025 02:44	34
07/05/2025 02:45	33.8	08/05/2025 02:45	34.1	09/05/2025 02:45	34.1
07/05/2025 02:46	33.8	08/05/2025 02:46	34	09/05/2025 02:46	34.5
07/05/2025 02:47	33.8	08/05/2025 02:47	34.1	09/05/2025 02:47	59.9
07/05/2025 02:48	33.9	08/05/2025 02:48	34	09/05/2025 02:48	34.3
07/05/2025 02:49	33.8	08/05/2025 02:49	34.1	09/05/2025 02:49	34
07/05/2025 02:50	33.8	08/05/2025 02:50	34.2	09/05/2025 02:50	34
07/05/2025 02:51	34	08/05/2025 02:51	34.1	09/05/2025 02:51	34
07/05/2025 02:52	62.8	08/05/2025 02:52	34	09/05/2025 02:52	34
07/05/2025 02:53	34.1	08/05/2025 02:53	34.1	09/05/2025 02:53	34.1
07/05/2025 02:54	58	08/05/2025 02:54	34	09/05/2025 02:54	34.3
07/05/2025 02:55	33.8	08/05/2025 02:55	34	09/05/2025 02:55	41.4
07/05/2025 02:56	33.8	08/05/2025 02:56	34.2	09/05/2025 02:56	34.3
07/05/2025 02:57	33.9	08/05/2025 02:57	34.1	09/05/2025 02:57	34
07/05/2025 02:58	33.8	08/05/2025 02:58	34.2	09/05/2025 02:58	44.3
07/05/2025 02:59	33.8	08/05/2025 02:59	34.2	09/05/2025 02:59	34
07/05/2025 03:00	33.9	08/05/2025 03:00	34.1	09/05/2025 03:00	34
07/05/2025 03:01	33.8	08/05/2025 03:01	34.1	09/05/2025 03:01	34
07/05/2025 03:02	33.8	08/05/2025 03:02	34.1	09/05/2025 03:02	34.1
07/05/2025 03:03	33.8	08/05/2025 03:03	34.1	09/05/2025 03:03	34.2
07/05/2025 03:04	33.9	08/05/2025 03:04	34.1	09/05/2025 03:04	57.7
07/05/2025 03:05	34	08/05/2025 03:05	34.1	09/05/2025 03:05	35.4
07/05/2025 03:06	34.4	08/05/2025 03:06	34.1	09/05/2025 03:06	34
07/05/2025 03:07	34.3	08/05/2025 03:07	34.1	09/05/2025 03:07	39.3
07/05/2025 03:08	34.3	08/05/2025 03:08	34.1	09/05/2025 03:08	35.1

07/05/2025 05:19	35.2	08/05/2025 05:19	59.6	09/05/2025 05:19	41.3
07/05/2025 05:20	35.8	08/05/2025 05:20	35.6	09/05/2025 05:20	34.7
07/05/2025 05:21	34.2	08/05/2025 05:21	36.5	09/05/2025 05:21	35.3
07/05/2025 05:22	35.4	08/05/2025 05:22	35.8	09/05/2025 05:22	36.5
07/05/2025 05:23	34.6	08/05/2025 05:23	36.4	09/05/2025 05:23	34.8
07/05/2025 05:24	61	08/05/2025 05:24	63.1	09/05/2025 05:24	35.1
07/05/2025 05:25	62.8	08/05/2025 05:25	67.7	09/05/2025 05:25	49.4
07/05/2025 05:26	35.4	08/05/2025 05:26	35.8	09/05/2025 05:26	62.7
07/05/2025 05:27	55.8	08/05/2025 05:27	34.5	09/05/2025 05:27	70.8
07/05/2025 05:28	47.9	08/05/2025 05:28	55.3	09/05/2025 05:28	35.8
07/05/2025 05:29	43.4	08/05/2025 05:29	56.5	09/05/2025 05:29	34.2
07/05/2025 05:30	58.1	08/05/2025 05:30	59.7	09/05/2025 05:30	34.6
07/05/2025 05:31	59.2	08/05/2025 05:31	34.5	09/05/2025 05:31	38.1
07/05/2025 05:32	38.5	08/05/2025 05:32	34.2	09/05/2025 05:32	58
07/05/2025 05:33	42	08/05/2025 05:33	40.8	09/05/2025 05:33	35.7
07/05/2025 05:34	35.2	08/05/2025 05:34	55.1	09/05/2025 05:34	67.3
07/05/2025 05:35	61.6	08/05/2025 05:35	40.2	09/05/2025 05:35	34.3
07/05/2025 05:36	44.4	08/05/2025 05:36	67.3	09/05/2025 05:36	49.9
07/05/2025 05:37	65.8	08/05/2025 05:37	59.4	09/05/2025 05:37	34.3
07/05/2025 05:38	60.4	08/05/2025 05:38	56.1	09/05/2025 05:38	63.4
07/05/2025 05:39	57.7	08/05/2025 05:39	35.4	09/05/2025 05:39	62.8
07/05/2025 05:40	66.8	08/05/2025 05:40	54.5	09/05/2025 05:40	37
07/05/2025 05:41	36.7	08/05/2025 05:41	61	09/05/2025 05:41	35.8
07/05/2025 05:42	59.9	08/05/2025 05:42	68.5	09/05/2025 05:42	34.2
07/05/2025 05:43	59	08/05/2025 05:43	60.7	09/05/2025 05:43	57.7
07/05/2025 05:44	62.3	08/05/2025 05:44	60.1	09/05/2025 05:44	71.1
07/05/2025 05:45	61.4	08/05/2025 05:45	34.9	09/05/2025 05:45	62.9
07/05/2025 05:46	62.8	08/05/2025 05:46	34.9	09/05/2025 05:46	35.6
07/05/2025 05:47	40.7	08/05/2025 05:47	34.7	09/05/2025 05:47	61.1
07/05/2025 05:48	65.6	08/05/2025 05:48	35.2	09/05/2025 05:48	63.9
07/05/2025 05:49	44.1	08/05/2025 05:49	34.2	09/05/2025 05:49	65
07/05/2025 05:50	45.9	08/05/2025 05:50	61.9	09/05/2025 05:50	67.4
07/05/2025 05:51	35.2	08/05/2025 05:51	40	09/05/2025 05:51	60.1
07/05/2025 05:52	67.3	08/05/2025 05:52	60.5	09/05/2025 05:52	69
07/05/2025 05:53	61.8	08/05/2025 05:53	35.4	09/05/2025 05:53	44.6
07/05/2025 05:54	58.2	08/05/2025 05:54	60.4	09/05/2025 05:54	60.9
07/05/2025 05:55	59.2	08/05/2025 05:55	34.9	09/05/2025 05:55	66.8
07/05/2025 05:56	60.6	08/05/2025 05:56	60.5	09/05/2025 05:56	36.9
07/05/2025 05:57	62.5	08/05/2025 05:57	58.8	09/05/2025 05:57	64.1
07/05/2025 05:58	43.3	08/05/2025 05:58	61.2	09/05/2025 05:58	40.8
07/05/2025 05:59	53.8	08/05/2025 05:59	67.1	09/05/2025 05:59	63.6
07/05/2025 06:00	52.2	08/05/2025 06:00	65	09/05/2025 06:00	65.7
07/05/2025 06:01	52.1	08/05/2025 06:01	43.8	09/05/2025 06:01	56.7
07/05/2025 06:02	63.8	08/05/2025 06:02	64	09/05/2025 06:02	61.7
07/05/2025 06:03	58.8	08/05/2025 06:03	63.6	09/05/2025 06:03	60
07/05/2025 06:04	64.5	08/05/2025 06:04	57.9	09/05/2025 06:04	56.7
07/05/2025 06:05	47	08/05/2025 06:05	57.7	09/05/2025 06:05	51.6
07/05/2025 06:06	34.6	08/05/2025 06:06	61.6	09/05/2025 06:06	38.4
07/05/2025 06:07	64.7	08/05/2025 06:07	67	09/05/2025 06:07	34.5
07/05/2025 06:08	60.1	08/05/2025 06:08	61.6	09/05/2025 06:08	66.5
07/05/2025 06:09	67.2	08/05/2025 06:09	67.3	09/05/2025 06:09	36
07/05/2025 06:10	58.6	08/05/2025 06:10	69.2	09/05/2025 06:10	64.8
07/05/2025 06:11	34.7	08/05/2025 06:11	57.6	09/05/2025 06:11	38.9
07/05/2025 06:12	34.7	08/05/2025 06:12	64.5	09/05/2025 06:12	64.4
07/05/2025 06:13	62.1	08/05/2025 06:13	64.4	09/05/2025 06:13	62.3
07/05/2025 06:14	38.4	08/05/2025 06:14	63.2	09/05/2025 06:14	36.3
07/05/2025 06:15	61.4	08/05/2025 06:15	35.8	09/05/2025 06:15	64.6
07/05/2025 06:16	45.3	08/05/2025 06:16	62.6	09/05/2025 06:16	35.4
07/05/2025 06:17	40	08/05/2025 06:17	36	09/05/2025 06:17	64.6
07/05/2025 06:18	66	08/05/2025 06:18	60.6	09/05/2025 06:18	65.2
07/05/2025 06:19	53.4	08/05/2025 06:19	61.7	09/05/2025 06:19	61.8
07/05/2025 06:20	64.4	08/05/2025 06:20	61.8	09/05/2025 06:20	66.9
07/05/2025 06:21	65.3	08/05/2025 06:21	44.6	09/05/2025 06:21	64.1
07/05/2025 06:22	56.7	08/05/2025 06:22	53.6	09/05/2025 06:22	56.6
07/05/2025 06:23	66.5	08/05/2025 06:23	54.9	09/05/2025 06:23	61.9
07/05/2025 06:24	61.4	08/05/2025 06:24	64.2	09/05/2025 06:24	35.4
07/05/2025 06:25	51.3	08/05/2025 06:25	56.8	09/05/2025 06:25	54.2
07/05/2025 06:26	61.8	08/05/2025 06:26	59.4	09/05/2025 06:26	52.8
07/05/2025 06:27	64.2	08/05/2025 06:27	69.7	09/05/2025 06:27	67.9
07/05/2025 06:28	64.3	08/05/2025 06:28	35.7	09/05/2025 06:28	37.6
07/05/2025 06:29	70.7	08/05/2025 06:29	63.4	09/05/2025 06:29	62.8
07/05/2025 06:30	64.3	08/05/2025 06:30	60.7	09/05/2025 06:30	65.2
07/05/2025 06:31	57.5	08/05/2025 06:31	62.9	09/05/2025 06:31	61.1
07/05/2025 06:32	35.4	08/05/2025 06:32	62.6	09/05/2025 06:32	41.9
07/05/2025 06:33	64.3	08/05/2025 06:33	60.6	09/05/2025 06:33	52.6
07/05/2025 06:34	61.6	08/05/2025 06:34	62.8	09/05/2025 06:34	63.6
07/05/2025 06:35	35.2	08/05/2025 06:35	56.4	09/05/2025 06:35	65.2
07/05/2025 06:36	63.5	08/05/2025 06:36	62.5	09/05/2025 06:36	65.2
07/05/2025 06:37	65.4	08/05/2025 06:37	66.4	09/05/2025 06:37	64.5
07/05/2025 06:38	60.1	08/05/2025 06:38	54.3	09/05/2025 06:38	65.5
07/05/2025 06:39	62.1	08/05/2025 06:39	39.2	09/05/2025 06:39	42.4
07/05/2025 06:40	65.9	08/05/2025 06:40	57	09/05/2025 06:40	44
07/05/2025 06:41	39.2	08/05/2025 06:41	41	09/05/2025 06:41	55.4
07/05/2025 06:42	59.4	08/05/2025 06:42	64.7	09/05/2025 06:42	64.1
07/05/2025 06:43	59.4	08/05/2025 06:43	61.6	09/05/2025 06:43	55.4
07/05/2025 06:44	67.7	08/05/2025 06:44	65.5	09/05/2025 06:44	67.1
07/05/2025 06:45	61.4	08/05/2025 06:45	55.9	09/05/2025 06:45	62.3
07/05/2025 06:46	63.7	08/05/2025 06:46	62.2	09/05/2025 06:46	62.4
07/05/2025 06:47	66.8	08/05/2025 06:47	69	09/05/2025 06:47	61.3
07/05/2025 06:48	55	08/05/2025 06:48	67.4	09/05/2025 06:48	54.2
07/05/2025 06:49	62.5	08/05/2025 06:49	61.6	09/05/2025 06:49	58.4
07/05/2025 06:50	68.2	08/05/2025 06:50	60.1	09/05/2025 06:50	65
07/05/2025 06:51	67.6	08/05/2025 06:51	63.5	09/05/2025 06:51	56.7
07/05/2025 06:52	59.6	08/05/2025 06:52	64.2	09/05/2025 06:52	62.4
07/05/2025 06:53	61.5	08/05/2025 06:53	61.6	09/05/2025 06:53	65.8
07/05/2025 06:54	63.2	08/05/2025 06:54	64.4	09/05/2025 06:54	62.4
07/05/2025 06:55	63.6	08/05/2025 06:55	45.1	09/05/2025 06:55	55
07/05/2025 06:56	61.3	08/05/2025 06:56	41.4	09/05/2025 06:56	43.1
07/05/2025 06:57	65.5	08/05/2025 06:57	64.4	09/05/2025 06:57	65.2
07/05/2025 06:58	63.8	08/05/2025 06:58	67.7	09/05/2025 06:58	66.3
07/05/2025 06:59	62.3	08/05/2025 06:59	65.2	09/05/2025 06:59	62.3
Overall	85.8	Overall	83.8	Overall	75.3

07/05/2025 05:19	42.2	08/05/2025 05:19	49.6	09/05/2025 05:19	40.9
07/05/2025 05:20	48.1	08/05/2025 05:20	70.5	09/05/2025 05:20	45.9
07/05/2025 05:21	42.5	08/05/2025 05:21	51.2	09/05/2025 05:21	40.8
07/05/2025 05:22	51.6	08/05/2025 05:22	41.4	09/05/2025 05:22	48.7
07/05/2025 05:23	45.9	08/05/2025 05:23	48.9	09/05/2025 05:23	69.3
07/05/2025 05:24	47.3	08/05/2025 05:24	45.3	09/05/2025 05:24	39.8
07/05/2025 05:25	51.3	08/05/2025 05:25	50.3	09/05/2025 05:25	54.5
07/05/2025 05:26	75.2	08/05/2025 05:26	37.5	09/05/2025 05:26	48.3
07/05/2025 05:27	47.8	08/05/2025 05:27	42.2	09/05/2025 05:27	54.4
07/05/2025 05:28	59.9	08/05/2025 05:28	43.7	09/05/2025 05:28	47.2
07/05/2025 05:29	54.7	08/05/2025 05:29	46.5	09/05/2025 05:29	49.1
07/05/2025 05:30	57.6	08/05/2025 05:30	44	09/05/2025 05:30	38.9
07/05/2025 05:31	47	08/05/2025 05:31	44.1	09/05/2025 05:31	52.1
07/05/2025 05:32	49.7	08/05/2025 05:32	50.5	09/05/2025 05:32	44.1
07/05/2025 05:33	49.2	08/05/2025 05:33	45.3	09/05/2025 05:33	43.9
07/05/2025 05:34	50.9	08/05/2025 05:34	48.6	09/05/2025 05:34	52.4
07/05/2025 05:35	72.8	08/05/2025 05:35	44.8	09/05/2025 05:35	38.9
07/05/2025 05:36	45	08/05/2025 05:36	74	09/05/2025 05:36	45.6
07/05/2025 05:37	74.7	08/05/2025 05:37	49.6	09/05/2025 05:37	39.1
07/05/2025 05:38	69.8	08/05/2025 05:38	45.2	09/05/2025 05:38	52.6
07/05/2025 05:39	47.9	08/05/2025 05:39	40.4	09/05/2025 05:39	53.5
07/05/2025 05:40	47.3	08/05/2025 05:40	42.4	09/05/2025 05:40	45.5
07/05/2025 05:41	45.9	08/05/2025 05:41	49.4	09/05/2025 05:41	77.9
07/05/2025 05:42	49.3	08/05/2025 05:42	52.8	09/05/2025 05:42	40.5
07/05/2025 05:43	74.1	08/05/2025 05:43	47.5	09/05/2025 05:43	48.2
07/05/2025 05:44	46.2	08/05/2025 05:44	47.9	09/05/2025 05:44	54.3
07/05/2025 05:45	49.2	08/05/2025 05:45	37.5	09/05/2025 05:45	49.4
07/05/2025 05:46	49.5	08/05/2025 05:46	43.2	09/05/2025 05:46	49.9
07/05/2025 05:47	77.9	08/05/2025 05:47	40.3	09/05/2025 05:47	73.6
07/05/2025 05:48	49.3	08/05/2025 05:48	42.3	09/05/2025 05:48	44.5
07/05/2025 05:49	49	08/05/2025 05:49	44.5	09/05/2025 05:49	77
07/05/2025 05:50	49.3	08/05/2025 05:50	44.6	09/05/2025 05:50	51.9
07/05/2025 05:51	42.8	08/05/2025 05:51	76.1	09/05/2025 05:51	45.4
07/05/2025 05:52	53.9	08/05/2025 05:52	60	09/05/2025 05:52	52.5
07/05/2025 05:53	48.5	08/05/2025 05:53	42.8	09/05/2025 05:53	44.5
07/05/2025 05:54	48.6	08/05/2025 05:54	49.3	09/05/2025 05:54	49.9
07/05/2025 05:55	45.4	08/05/2025 05:55	47.1	09/05/2025 05:55	49.8
07/05/2025 05:56	54.7	08/05/2025 05:56	43.3	09/05/2025 05:56	55.3
07/05/2025 05:57	72.5	08/05/2025 05:57	49.4	09/05/2025 05:57	78.7
07/05/2025 05:58	56.5	08/05/2025 05:58	50.1	09/05/2025 05:58	43.1
07/05/2025 05:59	48.5	08/05/2025 05:59	52.2	09/05/2025 05:59	50.5
07/05/2025 06:00	46.5	08/05/2025 06:00	47.1	09/05/2025 06:00	47.7
07/05/2025 06:01	69.5	08/05/2025 06:01	42.7	09/05/2025 06:01	49.7
07/05/2025 06:02	50.5	08/05/2025 06:02	71.4	09/05/2025 06:02	51.5
07/05/2025 06:03	44.9	08/05/2025 06:03	77.5	09/05/2025 06:03	45.5
07/05/2025 06:04	47.3	08/05/2025 06:04	46.6	09/05/2025 06:04	48.1
07/05/2025 06:05	74.7	08/05/2025 06:05	44.6	09/05/2025 06:05	47.7
07/05/2025 06:06	44.5	08/05/2025 06:06	42.2	09/05/2025 06:06	51.4
07/05/2025 06:07	49.8	08/05/2025 06:07	46.7	09/05/2025 06:07	42.3
07/05/2025 06:08	48.6	08/05/2025 06:08	45.4	09/05/2025 06:08	44.4
07/05/2025 06:09	48.5	08/05/2025 06:09	69.9	09/05/2025 06:09	52.9
07/05/2025 06:10	46	08/05/2025 06:10	48.5	09/05/2025 06:10	44.3
07/05/2025 06:11	50.4	08/05/2025 06:11	46.2	09/05/2025 06:11	74.9
07/05/2025 06:12	39.7	08/05/2025 06:12	46	09/05/2025 06:12	51.5
07/05/2025 06:13	42.4	08/05/2025 06:13	47.1	09/05/2025 06:13	49.9
07/05/2025 06:14	45	08/05/2025 06:14	46.3	09/05/2025 06:14	45
07/05/2025 06:15	75.9	08/05/2025 06:15	74.9	09/05/2025 06:15	76.5
07/05/2025 06:16	52.4	08/05/2025 06:16	52.3	09/05/2025 06:16	45.9
07/05/2025 06:17	45.9	08/05/2025 06:17	66.5	09/05/2025 06:17	47.8
07/05/2025 06:18	45.5	08/05/2025 06:18	70.6	09/05/2025 06:18	47.2
07/05/2025 06:19	49.5	08/05/2025 06:19	44.3	09/05/2025 06:19	73.8
07/05/2025 06:20	49.5	08/05/2025 06:20	42.3	09/05/2025 06:20	47
07/05/2025 06:21	48.9	08/05/2025 06:21	75.1	09/05/2025 06:21	46.4
07/05/2025 06:22	44.4	08/05/2025 06:22	41.3	09/05/2025 06:22	48.6
07/05/2025 06:23	46.3	08/05/2025 06:23	44	09/05/2025 06:23	43.5
07/05/2025 06:24	74.7	08/05/2025 06:24	42	09/05/2025 06:24	45.1
07/05/2025 06:25	45.6	08/05/2025 06:25	41.2	09/05/2025 06:25	77.4
07/05/2025 06:26	51.7	08/05/2025 06:26	39.6	09/05/2025 06:26	49.1
07/05/2025 06:27	50.5	08/05/2025 06:27	75.4	09/05/2025 06:27	78
07/05/2025 06:28	52.2	08/05/2025 06:28	44.6	09/05/2025 06:28	53.5
07/05/2025 06:29	52.7	08/05/2025 06:29	73.9	09/05/2025 06:29	49
07/05/2025 06:30	76.4	08/05/2025 06:30	48.3	09/05/2025 06:30	43.3
07/05/2025 06:31	48.6	08/05/2025 06:31	72.1	09/05/2025 06:31	49.6
07/05/2025 06:32	73.3	08/05/2025 06:32	75.7	09/05/2025 06:32	75.4
07/05/2025 06:33	74.4	08/05/2025 06:33	76.8	09/05/2025 06:33	75.8
07/05/2025 06:34	48.6	08/05/2025 06:34	44.6	09/05/2025 06:34	53.7
07/05/2025 06:35	68.8	08/05/2025 06:35	73.5	09/05/2025 06:35	75.4
07/05/2025 06:36	74.5	08/05/2025 06:36	71.2	09/05/2025 06:36	76.3
07/05/2025 06:37	77	08/05/2025 06:37	78	09/05/2025 06:37	78.6
07/05/2025 06:38	78.3	08/05/2025 06:38	55	09/05/2025 06:38	50.9
07/05/2025 06:39	47.3	08/05/2025 06:39	76.9	09/05/2025 06:39	53
07/05/2025 06:40	50.4	08/05/2025 06:40	78.9	09/05/2025 06:40	54.8
07/05/2025 06:41	47.7	08/05/2025 06:41	73.4	09/05/2025 06:41	77.2
07/05/2025 06:42	47	08/05/2025 06:42	49.5	09/05/2025 06:42	80.5
07/05/2025 06:43	75.4	08/05/2025 06:43	71.2	09/05/2025 06:43	74.2
07/05/2025 06:44	77.8	08/05/2025 06:44	78.5	09/05/2025 06:44	57.2
07/05/2025 06:45	49.4	08/05/2025 06:45	46.1	09/05/2025 06:45	77.4
07/05/2025 06:46	81.4	08/05/2025 06:46	75	09/05/2025 06:46	76.5
07/05/2025 06:47	78.9	08/05/2025 06:47	46.2	09/05/2025 06:47	74.7
07/05/2025 06:48	54.7	08/05/2025 06:48	47.2	09/05/2025 06:48	76.8
07/05/2025 06:49	71.9	08/05/2025 06:49	78.7	09/05/2025 06:49	55.5
07/05/2025 06:50	73.8	08/05/2025 06:50	43.9	09/05/2025 06:50	76.8
07/05/2025 06:51	58.9	08/05/2025 06:51	55.6	09/05/2025 06:51	76.4
07/05/2025 06:52	72.1	08/05/2025 06:52	48.6	09/05/2025 06:52	57
07/05/2025 06:53	52	08/05/2025 06:53	42.4	09/05/2025 06:53	52.9
07/05/2025 06:54	49.7	08/05/2025 06:54	48.2	09/05/2025 06:54	69.1
07/05/2025 06:55	45.5	08/05/2025 06:55	45.4	09/05/2025 06:55	54.8
07/05/2025 06:56	49.5	08/05/2025 06:56	80	09/05/2025 06:56	74.3
07/05/2025 06:57	48.4	08/05/2025 06:57	67.3	09/05/2025 06:57	55.2
07/05/2025 06:58	50.6	08/05/2025 06:58	47.6	09/05/2025 06:58	55.2
07/05/2025 06:59	49.7	08/05/2025 06:59	52.2	09/05/2025 06:59	55
Overall	81.4	Overall	80	Overall	81.4

LAmass analysis

60.6

Periods	1m	Rank	Level
		1st LAmass	70.1
		5th LAmass	63.9
		10th LAmass	59.7
		15th LAmass	57.3
Start	09/05/2025 23:00		
End	10/05/2025 06:59		
Location	ML3		
Weighting	A		
Data type	Lmax		
Unit	dB		
Period start	Lmax		
09/05/2025 23:00	50.3		
09/05/2025 23:01	48.6		
09/05/2025 23:02	53.8		
09/05/2025 23:03	53.1		
09/05/2025 23:04	50.1		
09/05/2025 23:05	59.7		
09/05/2025 23:06	53		
09/05/2025 23:07	56.7		
09/05/2025 23:08	55		
09/05/2025 23:09	47.9		
09/05/2025 23:10	50.1		
09/05/2025 23:11	50.8		
09/05/2025 23:12	51.8		
09/05/2025 23:13	53.8		
09/05/2025 23:14	49.7		
09/05/2025 23:15	53.8		
09/05/2025 23:16	67.2		
09/05/2025 23:17	70.1		
09/05/2025 23:18	49.1		
09/05/2025 23:19	53.5		
09/05/2025 23:20	49.8		
09/05/2025 23:21	53.8		
09/05/2025 23:22	55.3		
09/05/2025 23:23	51.2		
09/05/2025 23:24	54.2		
09/05/2025 23:25	48.4		
09/05/2025 23:26	50.5		
09/05/2025 23:27	50.6		
09/05/2025 23:28	37.6		
09/05/2025 23:29	52.2		
09/05/2025 23:30	54.5		
09/05/2025 23:31	56.8		
09/05/2025 23:32	52.2		
09/05/2025 23:33	51.5		
09/05/2025 23:34	48.5		
09/05/2025 23:35	37.6		
09/05/2025 23:36	53.6		
09/05/2025 23:37	50		
09/05/2025 23:38	52.7		
09/05/2025 23:39	55.8		
09/05/2025 23:40	57.2		
09/05/2025 23:41	49.3		
09/05/2025 23:42	51.2		
09/05/2025 23:43	52.2		
09/05/2025 23:44	57.6		
09/05/2025 23:45	48.3		
09/05/2025 23:46	53.3		
09/05/2025 23:47	51.8		
09/05/2025 23:48	48.4		
09/05/2025 23:49	49.5		
09/05/2025 23:50	52.3		
09/05/2025 23:51	50.3		
09/05/2025 23:52	54.3		
09/05/2025 23:53	46.1		
09/05/2025 23:54	50.3		
09/05/2025 23:55	51		
09/05/2025 23:56	51.5		
09/05/2025 23:57	53.1		
09/05/2025 23:58	40.6		
09/05/2025 23:59	54.3		
10/05/2025 00:00	53		
10/05/2025 00:01	38		
10/05/2025 00:02	63.9		
10/05/2025 00:03	61.6		
10/05/2025 00:04	46.1		
10/05/2025 00:05	50.9		
10/05/2025 00:06	53.5		
10/05/2025 00:07	52.3		
10/05/2025 00:08	57.2		
10/05/2025 00:09	56.1		
10/05/2025 00:10	51.3		
10/05/2025 00:11	53.5		
10/05/2025 00:12	38.5		
10/05/2025 00:13	55.6		
10/05/2025 00:14	48.6		
10/05/2025 00:15	66.8		

Periods	1m	Rank	Level
		1st LAmass	65.5
		5th LAmass	62.6
		10th LAmass	60.6
		15th LAmass	59.8
Start	10/05/2025 23:00		
End	11/05/2025 06:59		
Location	ML3		
Weighting	A		
Data type	Lmax		
Unit	dB		
Period start	Lmax		
10/05/2025 23:00	51.5		
10/05/2025 23:01	54.2		
10/05/2025 23:02	53.1		
10/05/2025 23:03	50.7		
10/05/2025 23:04	50.9		
10/05/2025 23:05	54.1		
10/05/2025 23:06	54.2		
10/05/2025 23:07	52.3		
10/05/2025 23:08	53.4		
10/05/2025 23:09	46		
10/05/2025 23:10	49.7		
10/05/2025 23:11	50.5		
10/05/2025 23:12	48.8		
10/05/2025 23:13	49.7		
10/05/2025 23:14	47.7		
10/05/2025 23:15	51.5		
10/05/2025 23:16	52.6		
10/05/2025 23:17	52.5		
10/05/2025 23:18	52.1		
10/05/2025 23:19	54.3		
10/05/2025 23:20	52.5		
10/05/2025 23:21	43.5		
10/05/2025 23:22	47.1		
10/05/2025 23:23	49.1		
10/05/2025 23:24	47.8		
10/05/2025 23:25	60.1		
10/05/2025 23:26	52.4		
10/05/2025 23:27	55.2		
10/05/2025 23:28	52.2		
10/05/2025 23:29	39		
10/05/2025 23:30	55.3		
10/05/2025 23:31	52.7		
10/05/2025 23:32	56		
10/05/2025 23:33	50.4		
10/05/2025 23:34	47.8		
10/05/2025 23:35	47.8		
10/05/2025 23:36	50.8		
10/05/2025 23:37	39.9		
10/05/2025 23:38	53		
10/05/2025 23:39	50.2		
10/05/2025 23:40	48.9		
10/05/2025 23:41	42.4		
10/05/2025 23:42	46.5		
10/05/2025 23:43	56.7		
10/05/2025 23:44	48.5		
10/05/2025 23:45	44.8		
10/05/2025 23:46	46.7		
10/05/2025 23:47	55.7		
10/05/2025 23:48	51.7		
10/05/2025 23:49	52.1		
10/05/2025 23:50	53.7		
10/05/2025 23:51	48.4		
10/05/2025 23:52	48.4		
10/05/2025 23:53	45.6		
10/05/2025 23:54	48.5		
10/05/2025 23:55	56.4		
10/05/2025 23:56	60.2		
10/05/2025 23:57	52.4		
10/05/2025 23:58	52.2		
10/05/2025 23:59	44.9		
11/05/2025 00:00	49.9		
11/05/2025 00:01	51.6		
11/05/2025 00:02	49.3		
11/05/2025 00:03	56.2		
11/05/2025 00:04	54.5		
11/05/2025 00:05	51.3		
11/05/2025 00:06	54.5		
11/05/2025 00:07	49.9		
11/05/2025 00:08	51.2		
11/05/2025 00:09	50.4		
11/05/2025 00:10	52.4		
11/05/2025 00:11	54.7		
11/05/2025 00:12	39.6		
11/05/2025 00:13	51.7		
11/05/2025 00:14	49.1		
11/05/2025 00:15	44.6		

10/05/2025 00:16	53.1
10/05/2025 00:17	34.2
10/05/2025 00:18	42.6
10/05/2025 00:19	52.1
10/05/2025 00:20	57.4
10/05/2025 00:21	38.3
10/05/2025 00:22	55.2
10/05/2025 00:23	53.6
10/05/2025 00:24	51
10/05/2025 00:25	56.7
10/05/2025 00:26	51.8
10/05/2025 00:27	49
10/05/2025 00:28	51.8
10/05/2025 00:29	43.7
10/05/2025 00:30	53.9
10/05/2025 00:31	53
10/05/2025 00:32	46.1
10/05/2025 00:33	49.9
10/05/2025 00:34	56
10/05/2025 00:35	43.6
10/05/2025 00:36	49.7
10/05/2025 00:37	53.9
10/05/2025 00:38	53.2
10/05/2025 00:39	37
10/05/2025 00:40	56.4
10/05/2025 00:41	57.3
10/05/2025 00:42	46.8
10/05/2025 00:43	43.8
10/05/2025 00:44	56.5
10/05/2025 00:45	68.5
10/05/2025 00:46	34.6
10/05/2025 00:47	44.9
10/05/2025 00:48	35.4
10/05/2025 00:49	53.7
10/05/2025 00:50	31.9
10/05/2025 00:51	31.3
10/05/2025 00:52	36.2
10/05/2025 00:53	38.8
10/05/2025 00:54	52.3
10/05/2025 00:55	53.9
10/05/2025 00:56	49.8
10/05/2025 00:57	57.5
10/05/2025 00:58	44.4
10/05/2025 00:59	34.7
10/05/2025 01:00	41.4
10/05/2025 01:01	48.5
10/05/2025 01:02	43.3
10/05/2025 01:03	37.8
10/05/2025 01:04	52.3
10/05/2025 01:05	45.9
10/05/2025 01:06	37.2
10/05/2025 01:07	60.9
10/05/2025 01:08	38.9
10/05/2025 01:09	53.3
10/05/2025 01:10	48.8
10/05/2025 01:11	32.6
10/05/2025 01:12	32.2
10/05/2025 01:13	32.9
10/05/2025 01:14	53.6
10/05/2025 01:15	42.1
10/05/2025 01:16	35.8
10/05/2025 01:17	33.6
10/05/2025 01:18	34.9
10/05/2025 01:19	47.5
10/05/2025 01:20	38.2
10/05/2025 01:21	51.1
10/05/2025 01:22	33.5
10/05/2025 01:23	31.7
10/05/2025 01:24	34.1
10/05/2025 01:25	36.4
10/05/2025 01:26	49.7
10/05/2025 01:27	39.1
10/05/2025 01:28	48
10/05/2025 01:29	31.2
10/05/2025 01:30	34.5
10/05/2025 01:31	51.3
10/05/2025 01:32	34.6
10/05/2025 01:33	41.3
10/05/2025 01:34	43.6
10/05/2025 01:35	42.3
10/05/2025 01:36	32.8
10/05/2025 01:37	31.6
10/05/2025 01:38	32.2
10/05/2025 01:39	40
10/05/2025 01:40	35.2
10/05/2025 01:41	50.2
10/05/2025 01:42	51.2

11/05/2025 00:16	61.6
11/05/2025 00:17	53.3
11/05/2025 00:18	49.9
11/05/2025 00:19	50.2
11/05/2025 00:20	49
11/05/2025 00:21	51.9
11/05/2025 00:22	44.9
11/05/2025 00:23	48
11/05/2025 00:24	56.2
11/05/2025 00:25	37
11/05/2025 00:26	37.8
11/05/2025 00:27	43.3
11/05/2025 00:28	51.9
11/05/2025 00:29	48.3
11/05/2025 00:30	47.4
11/05/2025 00:31	38.6
11/05/2025 00:32	51.9
11/05/2025 00:33	46.7
11/05/2025 00:34	53
11/05/2025 00:35	38.5
11/05/2025 00:36	37.5
11/05/2025 00:37	54.1
11/05/2025 00:38	48.7
11/05/2025 00:39	50
11/05/2025 00:40	51.5
11/05/2025 00:41	50.3
11/05/2025 00:42	53.3
11/05/2025 00:43	49.3
11/05/2025 00:44	43.7
11/05/2025 00:45	45.8
11/05/2025 00:46	36.9
11/05/2025 00:47	38.3
11/05/2025 00:48	48.7
11/05/2025 00:49	59.8
11/05/2025 00:50	55
11/05/2025 00:51	39.1
11/05/2025 00:52	38.3
11/05/2025 00:53	36.3
11/05/2025 00:54	44
11/05/2025 00:55	49.2
11/05/2025 00:56	59.8
11/05/2025 00:57	54.4
11/05/2025 00:58	48.2
11/05/2025 00:59	55.6
11/05/2025 01:00	55.6
11/05/2025 01:01	53
11/05/2025 01:02	60
11/05/2025 01:03	63.1
11/05/2025 01:04	48.2
11/05/2025 01:05	45.3
11/05/2025 01:06	47.4
11/05/2025 01:07	65.5
11/05/2025 01:08	54.4
11/05/2025 01:09	38.1
11/05/2025 01:10	48.6
11/05/2025 01:11	44.7
11/05/2025 01:12	50.8
11/05/2025 01:13	51.3
11/05/2025 01:14	49
11/05/2025 01:15	49.5
11/05/2025 01:16	49.2
11/05/2025 01:17	55.5
11/05/2025 01:18	43.3
11/05/2025 01:19	54.7
11/05/2025 01:20	51.9
11/05/2025 01:21	43.7
11/05/2025 01:22	36.5
11/05/2025 01:23	35.3
11/05/2025 01:24	34.6
11/05/2025 01:25	35.8
11/05/2025 01:26	34.8
11/05/2025 01:27	49.2
11/05/2025 01:28	34.1
11/05/2025 01:29	56.9
11/05/2025 01:30	55.6
11/05/2025 01:31	43.4
11/05/2025 01:32	35.1
11/05/2025 01:33	52.6
11/05/2025 01:34	50.3
11/05/2025 01:35	53.8
11/05/2025 01:36	54.4
11/05/2025 01:37	52.2
11/05/2025 01:38	42.4
11/05/2025 01:39	50.1
11/05/2025 01:40	52
11/05/2025 01:41	45.9
11/05/2025 01:42	62.7

10/05/2025 01:43	41.8
10/05/2025 01:44	48.3
10/05/2025 01:45	42.1
10/05/2025 01:46	46
10/05/2025 01:47	44.3
10/05/2025 01:48	53.9
10/05/2025 01:49	32.9
10/05/2025 01:50	33.7
10/05/2025 01:51	32.3
10/05/2025 01:52	34.8
10/05/2025 01:53	33.7
10/05/2025 01:54	32.1
10/05/2025 01:55	33.8
10/05/2025 01:56	34
10/05/2025 01:57	34.2
10/05/2025 01:58	48.8
10/05/2025 01:59	40
10/05/2025 02:00	45.1
10/05/2025 02:01	43.1
10/05/2025 02:02	36.5
10/05/2025 02:03	44.7
10/05/2025 02:04	53.6
10/05/2025 02:05	55.1
10/05/2025 02:06	52.1
10/05/2025 02:07	36.5
10/05/2025 02:08	32.7
10/05/2025 02:09	34.9
10/05/2025 02:10	42.5
10/05/2025 02:11	40.6
10/05/2025 02:12	34.3
10/05/2025 02:13	47.8
10/05/2025 02:14	39.8
10/05/2025 02:15	38.5
10/05/2025 02:16	39.2
10/05/2025 02:17	39
10/05/2025 02:18	43.6
10/05/2025 02:19	49.6
10/05/2025 02:20	56.4
10/05/2025 02:21	38.1
10/05/2025 02:22	36.8
10/05/2025 02:23	37.6
10/05/2025 02:24	53.8
10/05/2025 02:25	37.8
10/05/2025 02:26	50
10/05/2025 02:27	37
10/05/2025 02:28	36.8
10/05/2025 02:29	46.3
10/05/2025 02:30	44.4
10/05/2025 02:31	37.7
10/05/2025 02:32	42.7
10/05/2025 02:33	48.9
10/05/2025 02:34	49.7
10/05/2025 02:35	41
10/05/2025 02:36	48.9
10/05/2025 02:37	36.6
10/05/2025 02:38	37.1
10/05/2025 02:39	36.2
10/05/2025 02:40	35.6
10/05/2025 02:41	51.4
10/05/2025 02:42	55.6
10/05/2025 02:43	45.2
10/05/2025 02:44	51.5
10/05/2025 02:45	33.6
10/05/2025 02:46	31.8
10/05/2025 02:47	31.5
10/05/2025 02:48	43.7
10/05/2025 02:49	46.6
10/05/2025 02:50	45.4
10/05/2025 02:51	35.5
10/05/2025 02:52	54.3
10/05/2025 02:53	50.3
10/05/2025 02:54	42.5
10/05/2025 02:55	45.8
10/05/2025 02:56	42.6
10/05/2025 02:57	44.9
10/05/2025 02:58	33.5
10/05/2025 02:59	34.6
10/05/2025 03:00	33.1
10/05/2025 03:01	37.9
10/05/2025 03:02	32.1
10/05/2025 03:03	32.9
10/05/2025 03:04	33.9
10/05/2025 03:05	34.9
10/05/2025 03:06	34.6
10/05/2025 03:07	43.2
10/05/2025 03:08	33.2
10/05/2025 03:09	41.5

11/05/2025 01:43	36.9
11/05/2025 01:44	48
11/05/2025 01:45	35
11/05/2025 01:46	35.7
11/05/2025 01:47	35.4
11/05/2025 01:48	46.6
11/05/2025 01:49	53.6
11/05/2025 01:50	35.2
11/05/2025 01:51	36.5
11/05/2025 01:52	36.3
11/05/2025 01:53	36.8
11/05/2025 01:54	36.5
11/05/2025 01:55	34.8
11/05/2025 01:56	36.6
11/05/2025 01:57	42
11/05/2025 01:58	50.1
11/05/2025 01:59	43.9
11/05/2025 02:00	34.2
11/05/2025 02:01	33.7
11/05/2025 02:02	51.8
11/05/2025 02:03	47.7
11/05/2025 02:04	35.4
11/05/2025 02:05	33.4
11/05/2025 02:06	33.6
11/05/2025 02:07	33.5
11/05/2025 02:08	33.1
11/05/2025 02:09	62.6
11/05/2025 02:10	48.2
11/05/2025 02:11	58.3
11/05/2025 02:12	36.7
11/05/2025 02:13	34.3
11/05/2025 02:14	51.8
11/05/2025 02:15	54.1
11/05/2025 02:16	40.4
11/05/2025 02:17	53
11/05/2025 02:18	58.9
11/05/2025 02:19	52
11/05/2025 02:20	42.8
11/05/2025 02:21	33
11/05/2025 02:22	33.3
11/05/2025 02:23	62.3
11/05/2025 02:24	52.2
11/05/2025 02:25	32.9
11/05/2025 02:26	32.8
11/05/2025 02:27	39.4
11/05/2025 02:28	51.2
11/05/2025 02:29	60.6
11/05/2025 02:30	33.3
11/05/2025 02:31	32.8
11/05/2025 02:32	32.6
11/05/2025 02:33	32.1
11/05/2025 02:34	32.3
11/05/2025 02:35	33.3
11/05/2025 02:36	31.7
11/05/2025 02:37	32.4
11/05/2025 02:38	31.7
11/05/2025 02:39	31.7
11/05/2025 02:40	31.7
11/05/2025 02:41	31.9
11/05/2025 02:42	32.4
11/05/2025 02:43	33.8
11/05/2025 02:44	53.9
11/05/2025 02:45	50.7
11/05/2025 02:46	33
11/05/2025 02:47	33.9
11/05/2025 02:48	37.5
11/05/2025 02:49	50.8
11/05/2025 02:50	35.4
11/05/2025 02:51	33.6
11/05/2025 02:52	32.2
11/05/2025 02:53	33.2
11/05/2025 02:54	48.4
11/05/2025 02:55	57.3
11/05/2025 02:56	61.2
11/05/2025 02:57	35.6
11/05/2025 02:58	33.9
11/05/2025 02:59	33.4
11/05/2025 03:00	34.5
11/05/2025 03:01	32.4
11/05/2025 03:02	31.7
11/05/2025 03:03	44.7
11/05/2025 03:04	35
11/05/2025 03:05	32.2
11/05/2025 03:06	32.6
11/05/2025 03:07	54.8
11/05/2025 03:08	35.7
11/05/2025 03:09	47.4

10/05/2025 03:10	43.7
10/05/2025 03:11	32.3
10/05/2025 03:12	35.9
10/05/2025 03:13	33.2
10/05/2025 03:14	32.4
10/05/2025 03:15	33.3
10/05/2025 03:16	34.2
10/05/2025 03:17	33
10/05/2025 03:18	30.9
10/05/2025 03:19	33.3
10/05/2025 03:20	31.8
10/05/2025 03:21	31.2
10/05/2025 03:22	32.8
10/05/2025 03:23	32.5
10/05/2025 03:24	38.1
10/05/2025 03:25	39.9
10/05/2025 03:26	32
10/05/2025 03:27	36.6
10/05/2025 03:28	51.8
10/05/2025 03:29	37
10/05/2025 03:30	33.6
10/05/2025 03:31	33.6
10/05/2025 03:32	47.1
10/05/2025 03:33	38
10/05/2025 03:34	32.8
10/05/2025 03:35	43.1
10/05/2025 03:36	35.4
10/05/2025 03:37	33.4
10/05/2025 03:38	32.8
10/05/2025 03:39	44.7
10/05/2025 03:40	36.1
10/05/2025 03:41	33.4
10/05/2025 03:42	36.7
10/05/2025 03:43	47.4
10/05/2025 03:44	37.9
10/05/2025 03:45	35.3
10/05/2025 03:46	38.1
10/05/2025 03:47	35.3
10/05/2025 03:48	43.3
10/05/2025 03:49	38.9
10/05/2025 03:50	37.2
10/05/2025 03:51	37.5
10/05/2025 03:52	37.8
10/05/2025 03:53	34.9
10/05/2025 03:54	35.6
10/05/2025 03:55	35.8
10/05/2025 03:56	36.6
10/05/2025 03:57	34.8
10/05/2025 03:58	37.4
10/05/2025 03:59	35.9
10/05/2025 04:00	38.3
10/05/2025 04:01	46.9
10/05/2025 04:02	48
10/05/2025 04:03	46.5
10/05/2025 04:04	48.1
10/05/2025 04:05	51.1
10/05/2025 04:06	49.2
10/05/2025 04:07	39.8
10/05/2025 04:08	47.5
10/05/2025 04:09	38.2
10/05/2025 04:10	39.1
10/05/2025 04:11	51.8
10/05/2025 04:12	40.6
10/05/2025 04:13	36.1
10/05/2025 04:14	36.4
10/05/2025 04:15	36.2
10/05/2025 04:16	41.6
10/05/2025 04:17	39.8
10/05/2025 04:18	
10/05/2025 04:19	
10/05/2025 04:20	
10/05/2025 04:21	
10/05/2025 04:22	
10/05/2025 04:23	
10/05/2025 04:24	
10/05/2025 04:25	
10/05/2025 04:26	
10/05/2025 04:27	
10/05/2025 04:28	
10/05/2025 04:29	
10/05/2025 04:30	
10/05/2025 04:31	
10/05/2025 04:32	
10/05/2025 04:33	
10/05/2025 04:34	
10/05/2025 04:35	
10/05/2025 04:36	

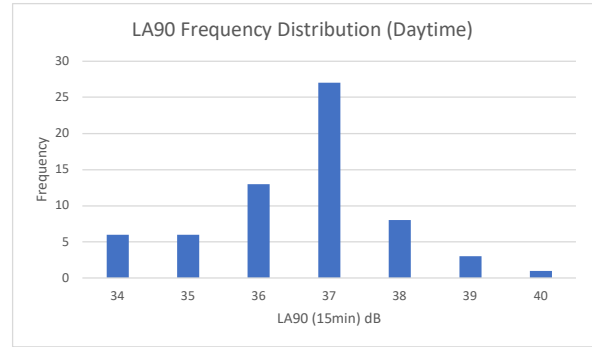
11/05/2025 03:10	40.7
11/05/2025 03:11	33
11/05/2025 03:12	33
11/05/2025 03:13	30.8
11/05/2025 03:14	32.6
11/05/2025 03:15	36.3
11/05/2025 03:16	40.7
11/05/2025 03:17	33.1
11/05/2025 03:18	55.8
11/05/2025 03:19	49.8
11/05/2025 03:20	48.3
11/05/2025 03:21	32.4
11/05/2025 03:22	31.7
11/05/2025 03:23	54.9
11/05/2025 03:24	38.7
11/05/2025 03:25	34.1
11/05/2025 03:26	32.5
11/05/2025 03:27	33.9
11/05/2025 03:28	32.8
11/05/2025 03:29	36.1
11/05/2025 03:30	33.2
11/05/2025 03:31	34.7
11/05/2025 03:32	31.5
11/05/2025 03:33	32.2
11/05/2025 03:34	31.5
11/05/2025 03:35	32.7
11/05/2025 03:36	32.7
11/05/2025 03:37	33
11/05/2025 03:38	32.3
11/05/2025 03:39	35
11/05/2025 03:40	46.5
11/05/2025 03:41	54.1
11/05/2025 03:42	38
11/05/2025 03:43	35.2
11/05/2025 03:44	35.8
11/05/2025 03:45	50
11/05/2025 03:46	40
11/05/2025 03:47	44.2
11/05/2025 03:48	54.3
11/05/2025 03:49	52.6
11/05/2025 03:50	34
11/05/2025 03:51	33.7
11/05/2025 03:52	33.7
11/05/2025 03:53	35.3
11/05/2025 03:54	37
11/05/2025 03:55	35.3
11/05/2025 03:56	40.7
11/05/2025 03:57	42
11/05/2025 03:58	42
11/05/2025 03:59	37.2
11/05/2025 04:00	45.9
11/05/2025 04:01	44.9
11/05/2025 04:02	42.2
11/05/2025 04:03	44.8
11/05/2025 04:04	38.6
11/05/2025 04:05	45.3
11/05/2025 04:06	36.7
11/05/2025 04:07	55
11/05/2025 04:08	39.8
11/05/2025 04:09	45.6
11/05/2025 04:10	42.9
11/05/2025 04:11	38.6
11/05/2025 04:12	47.2
11/05/2025 04:13	52.2
11/05/2025 04:14	36.6
11/05/2025 04:15	41.6
11/05/2025 04:16	42
11/05/2025 04:17	41.7
11/05/2025 04:18	50.8
11/05/2025 04:19	52.1
11/05/2025 04:20	49.5
11/05/2025 04:21	40.2
11/05/2025 04:22	41.3
11/05/2025 04:23	43.7
11/05/2025 04:24	50
11/05/2025 04:25	45
11/05/2025 04:26	49.9
11/05/2025 04:27	44.6
11/05/2025 04:28	
11/05/2025 04:29	
11/05/2025 04:30	
11/05/2025 04:31	
11/05/2025 04:32	
11/05/2025 04:33	
11/05/2025 04:34	
11/05/2025 04:35	
11/05/2025 04:36	

10/05/2025 04:37	
10/05/2025 04:38	
10/05/2025 04:39	
10/05/2025 04:40	
10/05/2025 04:41	
10/05/2025 04:42	
10/05/2025 04:43	
10/05/2025 04:44	
10/05/2025 04:45	
10/05/2025 04:46	
10/05/2025 04:47	
10/05/2025 04:48	
10/05/2025 04:49	
10/05/2025 04:50	
10/05/2025 04:51	
10/05/2025 04:52	
10/05/2025 04:53	
10/05/2025 04:54	
10/05/2025 04:55	
10/05/2025 04:56	
10/05/2025 04:57	
10/05/2025 04:58	
10/05/2025 04:59	
10/05/2025 05:00	
10/05/2025 05:01	
10/05/2025 05:02	
10/05/2025 05:03	
10/05/2025 05:04	
10/05/2025 05:05	
10/05/2025 05:06	
10/05/2025 05:07	
10/05/2025 05:08	
10/05/2025 05:09	
10/05/2025 05:10	
10/05/2025 05:11	
10/05/2025 05:12	
10/05/2025 05:13	
10/05/2025 05:14	
10/05/2025 05:15	
10/05/2025 05:16	
10/05/2025 05:17	
10/05/2025 05:18	
10/05/2025 05:19	
10/05/2025 05:20	
10/05/2025 05:21	
10/05/2025 05:22	
10/05/2025 05:23	
10/05/2025 05:24	
10/05/2025 05:25	
10/05/2025 05:26	
10/05/2025 05:27	
10/05/2025 05:28	
10/05/2025 05:29	
10/05/2025 05:30	
10/05/2025 05:31	
10/05/2025 05:32	
10/05/2025 05:33	
10/05/2025 05:34	
10/05/2025 05:35	
10/05/2025 05:36	
10/05/2025 05:37	
10/05/2025 05:38	
10/05/2025 05:39	
10/05/2025 05:40	
10/05/2025 05:41	
10/05/2025 05:42	
10/05/2025 05:43	
10/05/2025 05:44	
10/05/2025 05:45	
10/05/2025 05:46	
10/05/2025 05:47	
10/05/2025 05:48	
10/05/2025 05:49	
10/05/2025 05:50	35.3
10/05/2025 05:51	38.6
10/05/2025 05:52	45.3
10/05/2025 05:53	49.2
10/05/2025 05:54	48.4
10/05/2025 05:55	52.2
10/05/2025 05:56	61.6
10/05/2025 05:57	60.5
10/05/2025 05:58	46.7
10/05/2025 05:59	47.7
10/05/2025 06:00	42.1
10/05/2025 06:01	52.7
10/05/2025 06:02	48.8
10/05/2025 06:03	56.5

11/05/2025 04:37	
11/05/2025 04:38	
11/05/2025 04:39	
11/05/2025 04:40	
11/05/2025 04:41	
11/05/2025 04:42	
11/05/2025 04:43	
11/05/2025 04:44	
11/05/2025 04:45	
11/05/2025 04:46	
11/05/2025 04:47	
11/05/2025 04:48	
11/05/2025 04:49	
11/05/2025 04:50	
11/05/2025 04:51	
11/05/2025 04:52	
11/05/2025 04:53	
11/05/2025 04:54	
11/05/2025 04:55	
11/05/2025 04:56	
11/05/2025 04:57	
11/05/2025 04:58	
11/05/2025 04:59	
11/05/2025 05:00	
11/05/2025 05:01	
11/05/2025 05:02	
11/05/2025 05:03	
11/05/2025 05:04	
11/05/2025 05:05	
11/05/2025 05:06	
11/05/2025 05:07	
11/05/2025 05:08	
11/05/2025 05:09	
11/05/2025 05:10	
11/05/2025 05:11	
11/05/2025 05:12	
11/05/2025 05:13	
11/05/2025 05:14	
11/05/2025 05:15	
11/05/2025 05:16	
11/05/2025 05:17	
11/05/2025 05:18	
11/05/2025 05:19	
11/05/2025 05:20	
11/05/2025 05:21	
11/05/2025 05:22	
11/05/2025 05:23	
11/05/2025 05:24	
11/05/2025 05:25	
11/05/2025 05:26	
11/05/2025 05:27	
11/05/2025 05:28	
11/05/2025 05:29	
11/05/2025 05:30	
11/05/2025 05:31	
11/05/2025 05:32	
11/05/2025 05:33	
11/05/2025 05:34	
11/05/2025 05:35	
11/05/2025 05:36	
11/05/2025 05:37	
11/05/2025 05:38	
11/05/2025 05:39	
11/05/2025 05:40	
11/05/2025 05:41	
11/05/2025 05:42	
11/05/2025 05:43	
11/05/2025 05:44	
11/05/2025 05:45	
11/05/2025 05:46	
11/05/2025 05:47	
11/05/2025 05:48	
11/05/2025 05:49	
11/05/2025 05:50	
11/05/2025 05:51	
11/05/2025 05:52	
11/05/2025 05:53	
11/05/2025 05:54	
11/05/2025 05:55	
11/05/2025 05:56	41
11/05/2025 05:57	39.8
11/05/2025 05:58	49.7
11/05/2025 05:59	49.7
11/05/2025 06:00	51.8
11/05/2025 06:01	55.2
11/05/2025 06:02	56.1
11/05/2025 06:03	55.8

10/05/2025 06:04	44.3	11/05/2025 06:04	41
10/05/2025 06:05	44.5	11/05/2025 06:05	49.6
10/05/2025 06:06	45.8	11/05/2025 06:06	56.1
10/05/2025 06:07	46.8	11/05/2025 06:07	51.6
10/05/2025 06:08	47.3	11/05/2025 06:08	44.1
10/05/2025 06:09	42.9	11/05/2025 06:09	56.1
10/05/2025 06:10	47.9	11/05/2025 06:10	47.2
10/05/2025 06:11	51	11/05/2025 06:11	56
10/05/2025 06:12	51	11/05/2025 06:12	50.3
10/05/2025 06:13		11/05/2025 06:13	54.2
10/05/2025 06:14		11/05/2025 06:14	53.1
10/05/2025 06:15		11/05/2025 06:15	58.9
10/05/2025 06:16	50.7	11/05/2025 06:16	52.8
10/05/2025 06:17	45	11/05/2025 06:17	43
10/05/2025 06:18	41.6	11/05/2025 06:18	43.8
10/05/2025 06:19	48.9	11/05/2025 06:19	55.9
10/05/2025 06:20	52.9	11/05/2025 06:20	53.6
10/05/2025 06:21	49.4	11/05/2025 06:21	55.7
10/05/2025 06:22	48.1	11/05/2025 06:22	43.4
10/05/2025 06:23	50	11/05/2025 06:23	52
10/05/2025 06:24	48.2	11/05/2025 06:24	53.7
10/05/2025 06:25	40.9	11/05/2025 06:25	53.3
10/05/2025 06:26	49.2	11/05/2025 06:26	52.8
10/05/2025 06:27	46.7	11/05/2025 06:27	48.5
10/05/2025 06:28	42	11/05/2025 06:28	62.6
10/05/2025 06:29	49.2	11/05/2025 06:29	50.4
10/05/2025 06:30	45.5	11/05/2025 06:30	49.7
10/05/2025 06:31	40.3	11/05/2025 06:31	49.8
10/05/2025 06:32		11/05/2025 06:32	53.9
10/05/2025 06:33	39.5	11/05/2025 06:33	63.5
10/05/2025 06:34	49.2	11/05/2025 06:34	52.9
10/05/2025 06:35	49.6	11/05/2025 06:35	43.9
10/05/2025 06:36	48.3	11/05/2025 06:36	
10/05/2025 06:37		11/05/2025 06:37	
10/05/2025 06:38		11/05/2025 06:38	47.3
10/05/2025 06:39	49.2	11/05/2025 06:39	39.1
10/05/2025 06:40	45.7	11/05/2025 06:40	
10/05/2025 06:41	45.2	11/05/2025 06:41	50.5
10/05/2025 06:42	44.2	11/05/2025 06:42	47.7
10/05/2025 06:43	50	11/05/2025 06:43	49.8
10/05/2025 06:44	50.7	11/05/2025 06:44	
10/05/2025 06:45		11/05/2025 06:45	51.4
10/05/2025 06:46	49.2	11/05/2025 06:46	52.6
10/05/2025 06:47	49.9	11/05/2025 06:47	48.9
10/05/2025 06:48	51.1	11/05/2025 06:48	40.1
10/05/2025 06:49	55.3	11/05/2025 06:49	53
10/05/2025 06:50	45.3	11/05/2025 06:50	43.3
10/05/2025 06:51	47.1	11/05/2025 06:51	38.4
10/05/2025 06:52		11/05/2025 06:52	47
10/05/2025 06:53	48.2	11/05/2025 06:53	41
10/05/2025 06:54	51.1	11/05/2025 06:54	50
10/05/2025 06:55	58	11/05/2025 06:55	41.9
10/05/2025 06:56	51	11/05/2025 06:56	50.7
10/05/2025 06:57	48.5	11/05/2025 06:57	50.3
10/05/2025 06:58	48.5	11/05/2025 06:58	53.2
10/05/2025 06:59	54.1	11/05/2025 06:59	50.7
Overall	70.1	Overall	65.5

ML1	Date/Time	P1 (A, Lin)	Rounded
		LA90	
	07/05/2025 07:00	34.5	35
	07/05/2025 07:15	35.4	35
	07/05/2025 07:30	36.3	36
	07/05/2025 07:45	37.1	37
	07/05/2025 08:00	38.6	39
	07/05/2025 08:15	38.3	38
	07/05/2025 08:30	39.2	39
	07/05/2025 08:45	40.2	40
	07/05/2025 09:00	37.2	37
	07/05/2025 09:15	37.1	37
	07/05/2025 09:30	36.1	36
	07/05/2025 09:45	36	36
	07/05/2025 10:00	37.1	37
	07/05/2025 10:15	35.3	35
	07/05/2025 10:30	35.3	35
	07/05/2025 10:45	36.6	37
	07/05/2025 11:00	36.1	36
	07/05/2025 11:15	35.6	36
	07/05/2025 11:30	36.4	36
	07/05/2025 11:45	37.1	37
	07/05/2025 12:00	37	37
	07/05/2025 12:15	37.5	38
	07/05/2025 12:30	36.5	37
	07/05/2025 12:45	36.9	37
	07/05/2025 13:00	36	36
	07/05/2025 13:15	36.8	37
	07/05/2025 13:30	36.8	37
	07/05/2025 13:45	37.3	37
	07/05/2025 14:00	36.7	37
	07/05/2025 14:15	36.9	37
	07/05/2025 14:30	37	37
	07/05/2025 14:45	37.1	37
	07/05/2025 15:00	37.4	37
	07/05/2025 15:15	37.4	37
	07/05/2025 15:30	38.5	39
	07/05/2025 15:45	38.1	38
	07/05/2025 16:00	38.1	38
	07/05/2025 16:15	37.4	37
	07/05/2025 16:30	37.4	37
	07/05/2025 16:45	37.9	38
	07/05/2025 17:00	38.1	38
	07/05/2025 17:15	38.4	38
	07/05/2025 17:30	38.4	38
	07/05/2025 17:45	36.8	37
	07/05/2025 18:00	37.4	37
	07/05/2025 18:15	37.1	37
	07/05/2025 18:30	36.1	36
	07/05/2025 18:45	36.8	37
	07/05/2025 19:00	36.2	36
	07/05/2025 19:15	35.6	36
	07/05/2025 19:30	36.6	37
	07/05/2025 19:45	37.1	37
	07/05/2025 20:00	36.7	37
	07/05/2025 20:15	36.4	36
	07/05/2025 20:30	35.5	36
	07/05/2025 20:45	36	36
	07/05/2025 21:00	35.4	35
	07/05/2025 21:15	35.2	35
	07/05/2025 21:30	34.4	34
	07/05/2025 21:45	34.4	34
	07/05/2025 22:00	34.4	34
	07/05/2025 22:15	34.1	34
	07/05/2025 22:30	34	34
	07/05/2025 22:45	34	34
Period Count		64	
Log Averages		37	
Modal Average		37	



ML1	Date/Time	P1 (A, Lin)	
		LA90	Rounded
	06/05/2025 23:00	34	34
	06/05/2025 23:15	33.7	34
	06/05/2025 23:30	33.7	34
	06/05/2025 23:45	33.7	34
	07/05/2025 00:00	33.7	34
	07/05/2025 00:15	33.7	34
	07/05/2025 00:30	33.7	34
	07/05/2025 00:45	33.7	34
	07/05/2025 01:00	33.6	34
	07/05/2025 01:15	33.6	34
	07/05/2025 01:30	33.6	34
	07/05/2025 01:45	33.6	34
	07/05/2025 02:00	33.6	34
	07/05/2025 02:15	33.5	34
	07/05/2025 02:30	33.5	34
	07/05/2025 02:45	33.5	34
	07/05/2025 03:00	33.5	34
	07/05/2025 03:15	33.5	34
	07/05/2025 03:30	33.6	34
	07/05/2025 03:45	33.5	34
	07/05/2025 04:00	33.6	34
	07/05/2025 04:15	33.7	34
	07/05/2025 04:30	33.7	34
	07/05/2025 04:45	33.7	34
	07/05/2025 05:00	33.7	34
	07/05/2025 05:15	33.7	34
	07/05/2025 05:30	33.8	34
	07/05/2025 05:45	33.9	34
	07/05/2025 06:00	33.8	34
	07/05/2025 06:15	34.2	34
	07/05/2025 06:30	34	34
	07/05/2025 06:45	35.8	36
Period Count		32	
Log Averages		34	
Modal Average		34	

