



Environmental Associates

Noise Assessment

74 Turnpike Lane, Wood Green

December 2023

Island Portfolio Development Ltd



Noise Assessment

74 Turnpike Lane, Wood Green

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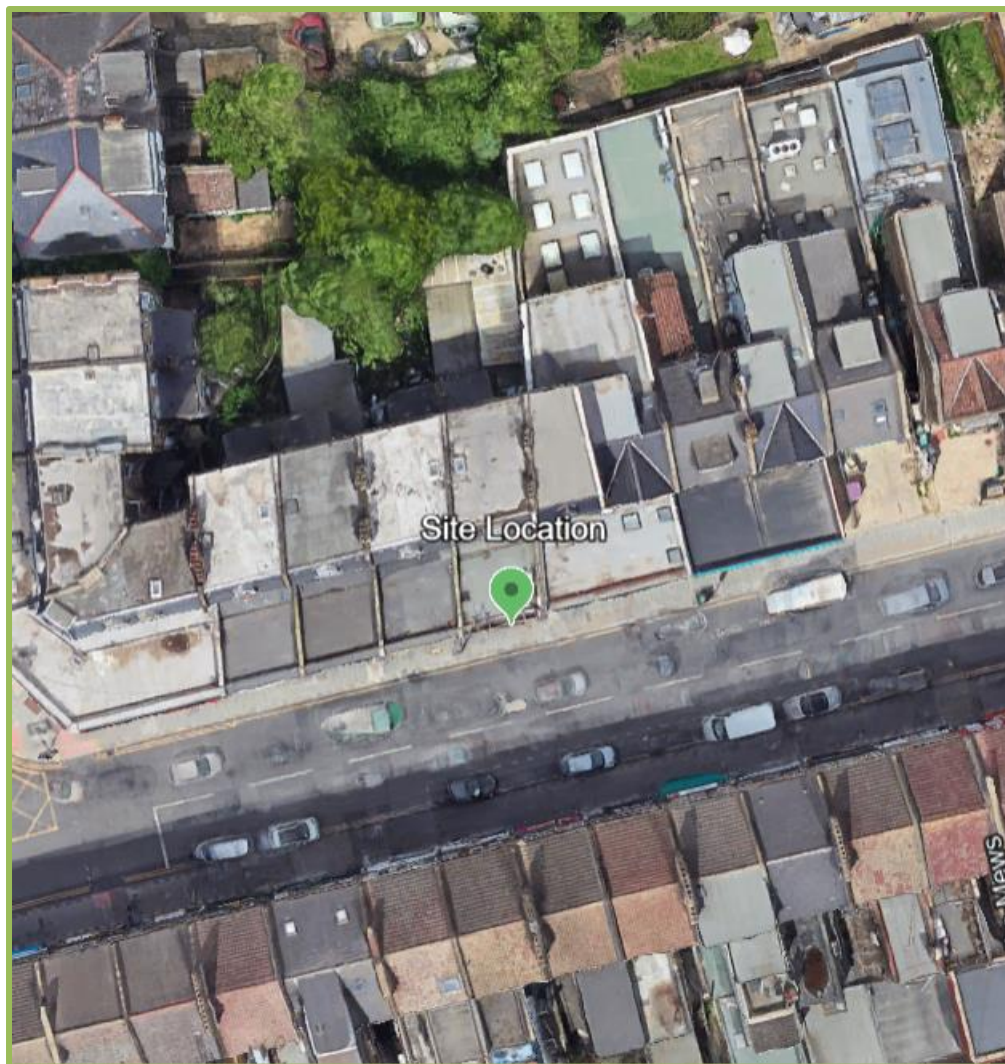
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- 1 Noise Measurements
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1 INTRODUCTION

1.1 Background

- 1.1.1 NJD Environmental Associates Ltd was instructed by Island Portfolio Development Ltd to undertake a noise assessment to accompany a planning application for the redevelopment of 74 Turnpike Lane, Wood Green. The site location is provided below in Drawing 1.



Drawing 1: Site Location

- 1.1.2 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 2023 provides the following with regards to noise, set out at paragraph 180 and 191:

'180: 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

"191: 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 L _{Amax}

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 L_{AmaxF}, 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 L_{Amax} 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 L_{Amax} 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.

3.3 London Borough of Haringey Requirements

- 3.3.1 Via email correspondence (between 1st November – 22nd November 2023) with London Borough of Haringey's Environmental Health department, the assessment methodology was discussed and the following was agreed:
- *Noise monitoring will be undertaken to include a weekend period at two locations, one at the southern façade and one at the northern façade.*
 - *The noise intrusion assessment will be undertaken in accordance with BS8233:2014, National Planning Policy, WHO Guidelines for Community Noise*

and ProPG Planning and Noise: New Residential Development.

- The noise assessment will assess any existing commercial and building service plant noise and any proposed building service plant noise in accordance with BS4142:2014+A1:2019.

4 NOISE SURVEY

4.1 Introduction

- 4.1.1 On the 24th November to 28th November 2023, noise measurements were taken in the vicinity of the development site, in order to quantify noise from surrounding sources.
- 4.1.2 Measurements were taken using Acoem Fusion sound level meters. The Class 1 instruments 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: 11484 and 11483) 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 2 below.



Drawing 2: Noise monitoring locations

4.2.2 The monitoring locations were as follows:

- **ML1:** On the southern elevation of the proposed development site, with the microphone protruding out of an open window. The monitoring location was approximately 9m from Turnpike Lane and established to determine associated road traffic noise levels.

The measurement took place during the following dates and times:

- 1205h on the 24th November, to 0700h on the 25th November 2023.

- **ML2:** On the northern elevation of the proposed development site, with the microphone protruding out of an open window. Overlooking the rear of the property to determine associated ambient noise levels and background levels.

The measurement took place during the following dates and times:

- 1220h on the 24th November, to 1240h on the 28th November 2023.

- 4.2.3 During the deployment and collection of noise monitoring equipment, road traffic noise from Turnpike Lane and overhead air traffic were found to be the dominant noise sources.
- 4.2.4 At ML1 a resident removed the noise monitoring equipment from the location to close the window, due to the cold conditions present. Data recorded from this location is therefore restricted to Friday daytime and night-time only. Although the data is limited compared to the recordings at ML2, the duration is still considered as suitable for the noise intrusion assessment, given that it covers a weekday period where road traffic noise is generally higher.
- 4.2.5 Weather conditions throughout the survey were favourable; with minimal rainfall and windspeeds between 1 to 5ms⁻¹ from variable directions for the majority of the monitoring period. It was noted that rainfall occurred on Monday, as such any period of rainfall on this day has been excluded from further analysis.
- 4.2.6 Construction works at an adjacent property were being undertaken during the daytime monitoring period on Saturday and Monday, which is audible at ML2. This has been excluded from further analysis in this assessment.

Uncertainties

- 4.2.7 Noise measurements have been undertaken with high precision Class 1 instruments calibrated before and after the survey by an appropriately qualified and experienced technician.
- 4.2.8 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.
- 4.2.9 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.
- 4.2.10 As such, the level of uncertainty should not be significant and the results and conclusions should be considered robust.

4.3 Existing Noise Levels

- 4.3.1 The noise levels from the identified monitoring locations are summarised in Tables 3 and 4 below.

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

Date	Daytime LAeq (0700 to 2300h)			Night-time (2300 to 0700h)		
	LAeq	Lamax	LA90	LAeq	Lamax*	LA90
Friday 24/11/2023	67	98	58	64	82	47
*10 th highest measurement						

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

Date	Daytime LAeq (0700 to 2300h)			Night-time (2300 to 0700h)		
	LAeq	Lamax	LA90	LAeq	Lamax*	LA90
Friday 24/11/2023	52	77	47	49	60	46
Saturday 25/11/2023	51	73	46	47	60	37
Sunday 26/11/2023	48	73	40	49	59	43
Monday 27/11/2023	51	38	47	48	62	43
Tuesday 28/11/2023	51	65	48	-	-	-
*10 th highest measurement						

4.4 LAmix Analysis

4.4.1 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 LAmix(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.'

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

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

4.4.4 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 LAmax,F more than 10 times a night.'

- 4.4.5 In light of the above, analysis has been conducted based on the LAmax events observed during the night-time period at ML1 and ML2. The analysis found that the 10th highest measured LAmax during the night-time period at ML1 was 82dB, whilst at ML2 it was 62dB, which were attributed to vehicles passes. These levels have therefore been adopted for use in the noise modelling exercise, as detailed in the following Section. A summary of LAmax noise levels is presented within Appendix 1.

4.5 Noise Level Review

- 4.5.1 On analysing the sound files for ML2, it is identified that building service plant is operational directly to the rear of the property during weekdays, and on Saturdays between 1800h and 0000h. This plant is associated with the existing ground floor restaurant.
- 4.5.2 As part of this application the kitchen extract will be replaced and moved to an alternative location, further away from the facade. As such, measured noise levels associated with the existing plant has been removed from further analysis within this report. As finalised details of this new extraction system has yet to be decided at this stage of the application, appropriate noise limits have been set as described within the sections below.
- 4.5.3 Additionally, from detailed examination of the sound files from ML2, no further industrial / commercial noise was audible. Therefore, it is concluded that no assessment of this noise source is required.

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 (which represents acoustically hard and reflective ground around the site), with buildings and roads also set to G=0, with two orders of reflection considered.
- 5.1.3 For the road traffic assessment, the models have been programmed to assess scenarios based on the daytime (0700h to 2300h) and night-time (2300h to 0700h) periods, with receiver and grid calculation heights set to calculate

propagation of noise across each floor of the development.

- 5.1.4 Road traffic levels have been set using the measurements from ML1 within the noise modelling software.
- 5.1.5 At ML2, given the measurement location is shielded and screened away from any roads, on analysis of the sound files, noise is audible from distant sources including road traffic, overhead aircraft and general ambient noise that is none descriptive. As such, façade noise levels and associated mitigation for the rear façade of the development has been based on the worst-case measured noise levels for all daytime and night-time scenarios.

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 Measured and Modelled Results

- 6.1.1 Table 5 summarises the highest levels experienced across the development during the respective day and night-time periods, across each floor.

Table 5: Summary of highest noise levels across the development				
Location	Façade	LAeq,16h	LAeq,8h	LAmaz
First Floor	Northern	52	49	62
	Southern	60	58	81
Second Floor	Northern	52	49	62
	Southern	67	64	82
Third Floor	Northern	52	49	62
	Southern	66	63	82

6.1.2 The modelled and measured levels have been used with reference to the required standards to determine appropriate mitigation, as discussed in the following Sections.

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, all living rooms and bedrooms will not achieve internal guidance levels without the provision of some form of acoustic ventilation and enhanced glazing. 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.

6.2.4 Appropriate mitigation measures are discussed in Section 10.

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 LAmaz inside bedroom areas.

6.3.2 As per the daytime requirements, all bedrooms will not achieve the guidance

levels with windows open.

6.3.3 Appropriate mitigation measures are discussed in Section 10.

7 BS4142 ASSESSMENT

7.1 Proposed External Plant Limits

7.1.1 The ground-floor plant / extraction is proposed to be replaced and repositioned as part of the scheme. As previously stated, the details of this have not yet been finalised and therefore appropriate noise limits have been set based on the monitoring.

7.1.2 BS4142 states the following with regards to the excess of the rating level over the measured background noise level; *'A difference of around +5dB is likely to be an indication of an adverse impact, depending on the context.'*

7.1.3 On this basis, it is recommended that the following indicative limit should apply for the rating noise level associated with the kitchen extract and any further proposed external plant, based on the measured modal background noise levels.

Table 6 Summary of recommended rating level limits (dBA)		
Location	Daytime LAeq,1h 0700 to 2300h	Night-time LAeq,15mins 2300 to 0700h
Closest ESRs	42	39

7.1.4 It should be noted that this indicative limit is dependent on the result of the assessment of context, in accordance with BS4142. Lower or higher limits may therefore be found to be suitable, depending on the nature of the noise source and other associated characteristics, as defined within the guidance.

8 INTERNAL SOUND INSULATION

8.1.1 The partition floor constructions between the proposed ground floor restaurant and above proposed residential dwellings are not known and therefore, the acoustic performance cannot be determined using INSUL sound insulation calculation software.

8.1.2 Although the 1st floor already contains rooms for sleeping purposes, the required sound insulation has been determined for completeness.

8.1.3 Section 7.5 of BS8233 outlines an example matrix which may be used to determine the sound insulation requirement of separating partitions based on the likely activity noise in the source room, the privacy requirement and noise

sensitivity of the receiving rooms. This has been reproduced in Table 7 below.

Table 7: Example on-site sound insulation matrix (dB DnT,w)				
Privacy Requirement	Activity Noise of Source Room	Noise Sensitivity of Receiving Rooms		
		Low	Medium	Sensitive
Confidential	Very High	47	52	57
	High	47	47	52
	Typical	47	47	47
	Low	47	42	47
Moderate	Very High	47	52	57
	High	37	42	47
	Typical	37	37	42
	Low	No rating	No rating	37
Not private	Very High	47	52	57
	High	37	42	47
	Typical	No rating	37	42
	Low	No rating	No rating	37

8.2 Minimum Acoustic Performance Standards

8.2.1 For the purposes of outlining the minimum acoustic performance standards for internal spaces of the building, the table above has been referenced where the restaurant is the source room and the surrounding use is the receiving room:

- Partition floor between the ground floor restaurant and first floor proposed residential spaces:
 - The activity noise in the source room is **High**, the privacy requirement is considered to be **Confidential** and the noise sensitivity is considered to be **Sensitive**.

8.2.2 Based on this classification, the specific requirement can be rated based on recommendation from the table above. The recommended specification is summarised within Table 8 below.

Table 8: Required airborne sound insulation between spaces						
Partition ID	Source Room	Receiving Room	Activity with Source Room	Privacy Requirement	Noise Sensitivity Receiving Room	Required Minimum DnT,w (dB)
Floor						
01	Restaurant	Residential	High	Confidential	Sensitive	52

8.2.3 The parameter describing the on-site performance is in terms of the weighted standardised level difference (DnT,w), where T is the reverberation time in seconds.

8.3 Typical Noise Levels within a Restaurant

- 8.3.1 The assessment has been undertaken using measured data published within '*The Little Red Book of Acoustics – A Practical Guide – Second Edition*' (dated 2008) of a 'Busy Restaurant'. These noise levels are summarised within Table 9 below.

Table 9: Noise levels within a 'busy restaurant'	
Commercial Use Descriptor	Overall dB(A)
'Busy Restaurant'	80

- 8.3.2 The resultant sound level within sensitive spaces and the attenuation required will ultimately depend on the proposed ground floor activities and the times/durations of these activities.
- 8.3.3 For example, if the operators generate very little noise the sound insulation requirement will be lower than compared to a 'busy restaurant'. Similarly, if the operators generate a higher noise level with different characteristics, such as a 'Busy pub/bar', then the resultant sound insulation requirement will be increased.

8.4 Assessment

- 8.4.1 Using the noise levels within a 'Busy Restaurant' and the required sound reduction of the partition floor, the resultant noise levels within the proposed premises are presented within Tables 10.

Table 10: Airborne noise assessment of partition floor		
Description	Overall dB(A)	
Noise Level within 'Busy Restaurant'	80	
Attenuation of the Partition Floor (DnT,w)	52	
Resultant Noise Levels within Development	28	
BS8233:2014 Criteria	Daytime (0700 – 2300) 35 Living Room / Bedroom	Night-time (2300 – 0700) 30 Bedroom
Criteria Achieved?	YES	YES

- 8.4.2 The results demonstrate that based on the matrix sound insulation requirement, airborne criteria will be met for both daytime and night-time.

8.5 Separating Partitions

- 8.5.1 Partitions between adjoining residential dwellings are to meet the requirements detailed in Table 0.1a and 0.2 as provided within the Building Regulations

Approved Document E, as shown below, and the requirements of BS8233:2014.

Table 0.1a Dwelling-houses and flats – performance standards for separating walls, separating floors, and stairs that have a separating function		
	Airborne sound insulation sound insulation $D_{nT,w} + C_{tr}$ dB (Minimum values)	Impact sound insulation $L'_{nT,w}$ dB (Maximum values)
Purpose built dwelling-houses and flats		
Walls	45	-
Floors and stairs	45	62
Dwelling-houses and flats formed by material change of use		
Walls	43	-
Floors and stairs	43	64

Table 0.2 Laboratory values for new internal walls and floors within dwelling-houses, flats and rooms for residential purposes, whether purpose built or formed by material change of use	
	Airborne sound insulation R_w dB (Minimum values)
Walls	40
Floors	40

- 8.5.2 Any new separating partition should follow the construction specifications detailed in Approved Document E and/or as approved in Robust Details. Where any bespoke separating partitions are required, these should be reviewed and approved by an acoustician.
- 8.5.3 Any existing partition that is to remain as part of the development should have the sound reduction identified by undertaking sound insulation testing during early RIBA Stages. Any enhancements that are required should be identified by an acoustician to meet the relevant requirements.
- 8.5.4 Following the build of the development, sound insulation testing should be undertaken to show compliance with Building Regulations Approved Documents E requirements.

8.6 Flanking Transmission

- 8.6.1 Flanking noise is noise transmitted via indirect paths, such as through the cavity of an external wall, through concrete floors, along structural members, or through elements of the curtain walling, for example. It is imperative to minimise flanking noise as it is likely to limit the sound insulation between spaces. Flanking noise

transmission is limited by careful consideration and design of building elements.

8.6.2 BS8233:2014 suggests the following factors which should be considered:

- Junction detail between the separating wall/floor and the flanking wall;
- Mass of the flanking elements; and
- Transmission through floor voids, loft spaces, service ducts, mullions and similar paths.

8.6.3 The assessment does not include a review of any junction details. Incorrectly detailed junctions can cause flanking sound leading to sound insulation test failures. Reference should therefore be made to the Building Regulations Approved Document E, to ensure that the design and build comply to the industry best practice.

8.6.4 Where any walls or ceiling are to be retained, it is recommended that during construction the brick should be repaired and made good throughout; the walls should be checked below floorboards and above ceilings to ensure there are no continuous voids through the wall and any gaps or holes should be patched up and made good.

8.6.5 Furthermore, any services running through acoustic separating walls or floors should be well sealed at the point of penetration. Any services running between habitable rooms or within floor voids, such as soil pipes, ventilation ducts etc. should be boxed off using 2 layers of Soundbloc board, with the void filled with high density (40-60kg/m³) acoustic insulation.

8.7 Quality Control and Workmanship

8.7.1 Effective sound insulation and control require careful detailing on the part of the designer as well as a high standard of workmanship on the part of the contractor. Correct execution of the detailing is essential and should be checked on site.

9 MITIGATION

9.1 Living Rooms and Bedrooms

9.1.1 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.

9.1.2 Based on the results, the levels of attenuation required to achieve the internal guidance levels for noise sensitive rooms on the northern and southern elevations

of the development are summarised in Table 11 and 12 respectively below.

Table 11: Highest attenuation requirements – Northern Elevation			
	L _{Aeq,16h}	L _{Aeq,8h}	L _{Amax}
Level at façade of receptor (dBA)	52	49	62
Guidance level (dBA)	35	30	45
Level of attenuation required (dBA)	17	19	17
Table 12: Highest attenuation requirements – Southern Elevation			
	L _{Aeq,16h}	L _{Aeq,8h}	L _{Amax}
Level at façade of receptor (dBA)	67	64	82
Guidance level (dBA)	35	30	45
Level of attenuation required (dBA)	32	34	37

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

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

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

- 9.1.4 The calculation uses dimensions of glazing and façade elements from the apartments experiencing the highest noise impact in combination with the highest glazing to internal room volume ratio.
- 9.1.5 With reference to Table E.2 of BS8233:1999, it could reasonably be expected that the walls of the dwellings will achieve sound insulation in the range of 45 to 50dB DnT,w.

Northern Elevation

- 9.1.6 The above equations have been followed, with the results summarised for the northern elevation in Table 13 below.

Table 13: Summary of calculated levels – Northern Elevation						
	Total Area	125Hz	250Hz	500 Hz	1kHz	2kHz
Glazing; Rw + Ctr 27 dB (e.g 4/12/4mm or equivalent)	2.7m²	21	15	24	36	39
Acoustic Ventilation; Dnew + Ctr 34dB (e.g Titon SFXFA V25/C25 2500EA or equivalent)	4no.	38	38	34	32	42
Composite Façade Attenuation	27 dB					
Summary of Calculated Noise Levels						
	Daytime (dB LAeq)		Night-time (dB LAeq)		Night-time (dB LAmaz)	
External Noise Level	52		49		62	
Internal Noise Level	25		22		35	

- 9.1.7 The results from Table 13 demonstrate that the minimum recommended glazing and ventilation for the northern façade can achieve the internal guidance levels based on the requirements for the worst-case living rooms and bedrooms.

Southern Elevation

- 9.1.8 Table 14 shows the enhanced glazing required for the southern elevation of the development.

Table 14: Summary of calculated levels – Southern façade						
	Total Area / No. Vents	125Hz	250Hz	500 Hz	1kHz	2kHz
Glazing; Rw + Ctr 35 dB (e.g 10/12/6.4mm or equivalent)	1.9m²	27	33	35	41	40
Acoustic Ventilation: Mechanical Ventilation with Heat Recovery	-	-	-	-	-	-
Composite Façade Attenuation	40 dB					
Summary of Calculated Noise Levels						
	Daytime (dB LAeq)		Night-time (dB LAeq)		Night-time (dB LAmax)	
External Noise Level	67		64		82	
Internal Noise Level	27		24		42	

9.1.10 The results from Table 14 demonstrate that with the minimum recommended glazing along with mechanical ventilation, the southern elevation can achieve the internal guidance levels based on the requirements for the worst-case living rooms and bedrooms.

9.1.11 The façade mitigation scheme is shown on Figures 4 – 6.

10 ACOUSTIC DESIGN STATEMENT

10.1 Introduction

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

10.1.2 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.

10.2 Internal Guidance Levels

10.2.1 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.

- 10.2.2 To ensure that land is utilised in an efficient and economical way and given the existing building structure is being redeveloped, increasing the stand-off from the surrounding transport links is not considered a viable option.
- 10.2.3 The introduction of acoustic barriers around the perimeter of the site is also not seen a realistic option.
- 10.2.4 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.
- 10.2.5 Due to the proportion of apartments affected and limited space available associated with the redevelopment of an existing structure, the reorientation of bedrooms is not considered a realistic, economical or proportionate solution.
- 10.2.6 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.
- 10.2.7 Where limiting factors exist that make it impractical to achieve internal guidance levels with windows open, 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.”

- 10.2.8 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.

11 ACOUSTIC DESIGN SUMMARY

- 11.1.1 Table 15 summarises the recommendations for glazing and ventilation across the façades of the development.

Table 15: Glazing and ventilation requirements summary			
Principle Elevation	Rooms	Glazing	Ventilation
Northern	Bedrooms and Living rooms	Rw + Ctr = 27dB (i.e., 4/12/4mm)	Dnew + Ctr = 37dB (i.e., Titon SFXSA V25/C25 2500 EA)
Southern		Rw + Ctr = 35dB (i.e., 10/12/6.4mm)	Mechanical Ventilation with heat recovery

Notes: These recommendations apply to noise sensitive rooms (living rooms and bedrooms) as shown on Figures 4 – 6. Any other glazing or ventilation scheme achieving or exceeding the respective level of attenuation would therefore be suitable.

It should be noted that the above mitigation strategy on the northern elevation assumes a background ventilation system with intermittent extract fans only. If a continuous mechanical extract ventilation were to be installed, then the equivalent area of background ventilation can be reduced in accordance with Approved Document Part F. This may result in a reduced number / specification of vents required which in turn may result in a reduced specification requirement for the glazing for which it is sited. The final glazing and ventilation design should be reviewed by an acoustician.

12 APPROVED DOCUMENT PART O

12.1.1 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."

12.1.2 Whilst the document relates to Building Regulations, it has been considered within this assessment at the planning stage as the most appropriate guidance to follow to identify which facades are likely to exceed the criteria outlined above. This is based on the measured and resulting modelled noise levels identified within this report.

12.1.3 Resultant noise levels are shown within the sections above. Based on these modelled noise levels, bedrooms located on the southern elevation of the site areas are unlikely to be able to rely on openable windows for ventilation purposes and therefore a ventilation strategy has been designed accordingly above.

12.1.4 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 may be exceeded.

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.

12.1.5

13 CONCLUSIONS

13.1 Introduction

13.1.1 NJD Environmental Associates has undertaken a noise assessment to accompany a planning application for the redevelopment of 74 Turnpike Lane, Wood Green, London.

13.2 BS8233 Assessment

13.2.1 The BS8233:2014 assessment found that noise sensitive rooms across the site will not achieve internal guidance levels with windows open.

13.2.2 Noise break-in calculations have demonstrated appropriate schemes of glazing and ventilation that can be adopted, with the details summarised in Table 15 and shown on Figures 4 - 6.

13.3 BS4142 Assessment

13.3.1 The main industrial/commercial source found to be impacting the site is an existing extract associated with the ground floor restaurant, which is to be replaced and relocated.

13.3.2 No further industrial/commercial sources were audible.

13.3.3 In accordance with BS4142, indicative limits have been provided for the rating noise level of the new proposed ground floor external plant, which are as follows:

- Daytime (0700 to 2300h): 42dB LAeq,1h
- Night-time (2300 to 0700h): 39dB LAeq,15min

13.4 Conclusion

13.4.1 In line with paragraph 180(e) and 191 of the NPPF (2023), the proposals would ensure that future occupiers were not put at unacceptable risk from, or being adversely affect by unacceptable noise.

njd

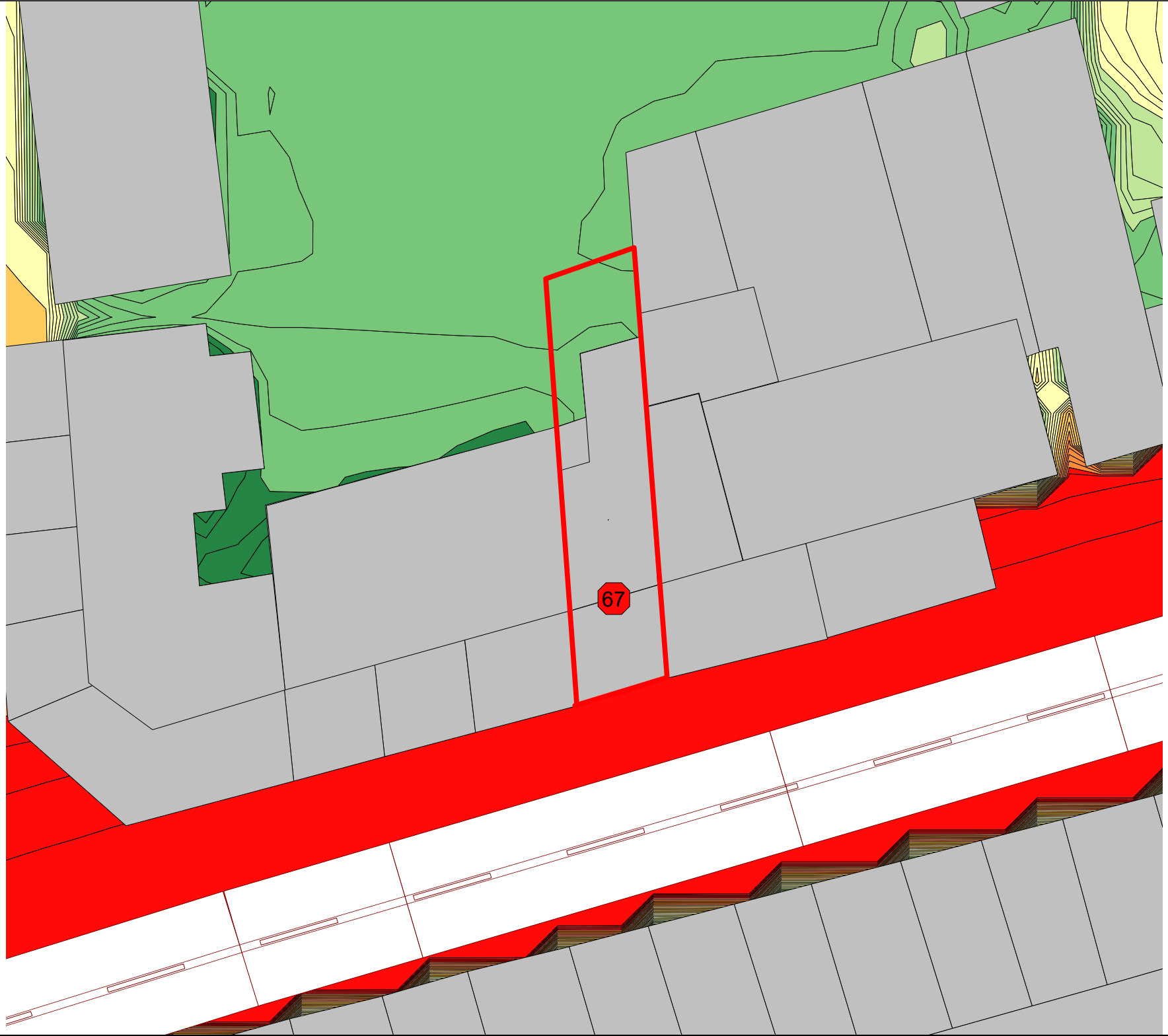
Environmental Associates

NJD Environmental Associates LTD

www.njdenvironmental.co.uk

Company Registration No 10956987



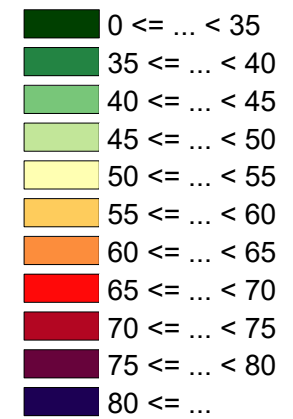


Client:
Island Portfolio Development Ltd

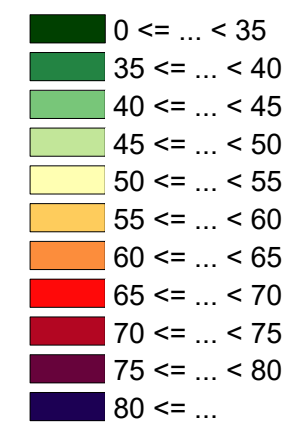
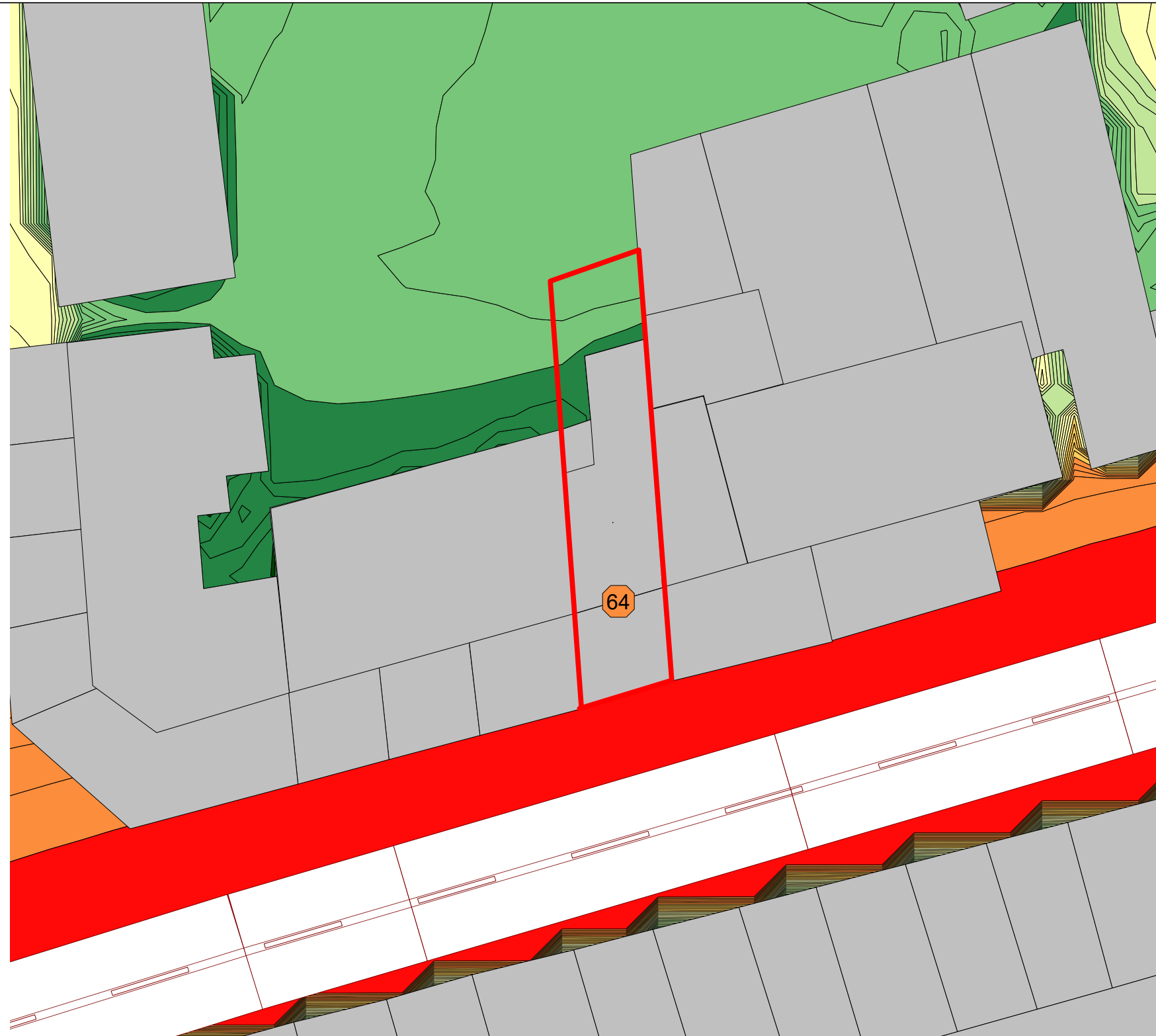
Job Title:
NJD23-0231
74 Turnpike Lane

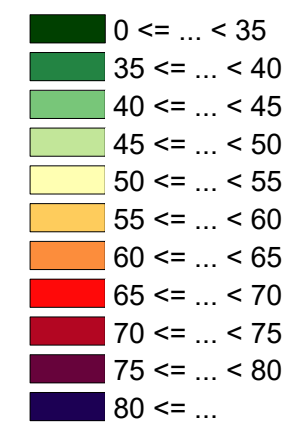
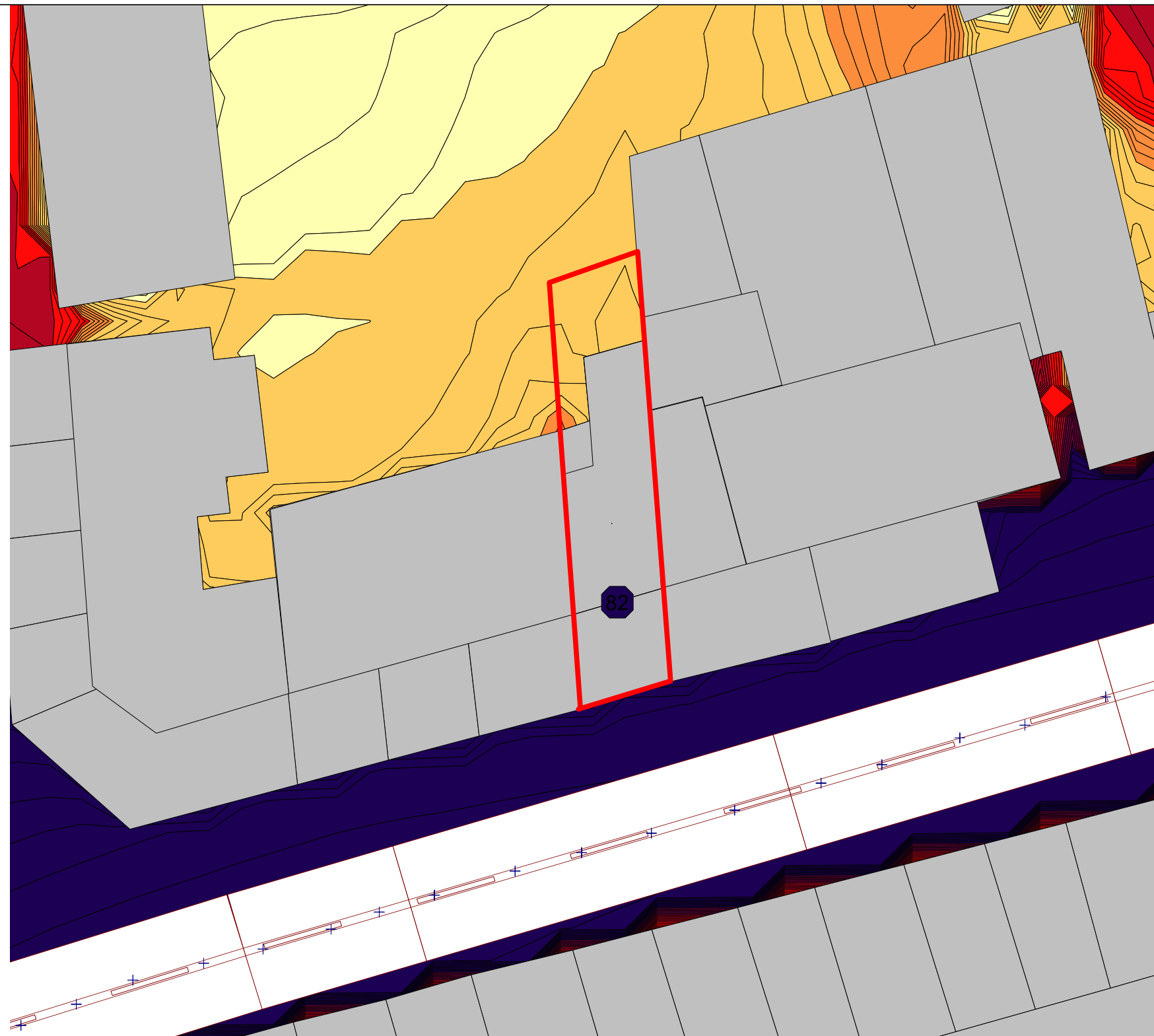
Figure 1:
Daytime LAeq,16hr
(2nd floor receptor height)

Drawn By:
S Griffith



Date:
December 2023







Key:	Living Room and Bedroom Mitigation:
	10/12/6.4mm glazing (or equivalent); Mechanical Ventilation with Heat Recovery
	4/12/4mm glazing; Titon SFXSA V25/C25 vents (or equivalent)
Unmarked facades have no specific requirements	





Key:	Living Room and Bedroom Mitigation:
	10/12/6.4mm glazing (or equivalent); Mechanical Ventilation with Heat Recovery
	4/12/4mm glazing; Titon SFXSA V25/C25 vents (or equivalent)
Unmarked facades have no specific requirements	





Key:	Living Room and Bedroom Mitigation:
	10/12/6.4mm glazing (or equivalent); Mechanical Ventilation with Heat Recovery
	4/12/4mm glazing; Titon SFXSA V25/C25 vents (or equivalent)
Unmarked facades have no specific requirements	



Appendix 1: Noise Measurements

File	20231124_120623_000000_1.CMG											
Location	ML1											
Data type	Leq											
Weighting	A											
Unit	dB											
Start	24/11/2023 12:06:23											
End	28/11/2023 12:35:06											
Period	Daytime (LAeq)											
Time slots	LAeq,16h	07:00	23:00	K = 0 dBA	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	LAeq dB	Leq dB	Lmin dB		Lmax dB		L90 dB		L10 dB			
Level	67.1	67.1	50.1		97.9		58.3		67.2			
Period	Night-time (LAeq)											
Time slots	LAeq,8h	23:00	07:00	K = 0 dBA	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	LAeq dB	Leq dB	Lmin dB		Lmax dB		L90 dB		L10 dB			
Level	64.3	64.3	38.1		94.6		46.8		66.9			

File	20231124_122130_000000_1.CMG											
Location	ML2											
Data type	Leq											
Weighting	A											
Unit	dB											
Start	24/11/2023 00:00:00											
End	29/11/2023 00:00:00											
Period	Daytime (LAeq)											
Time slots	LAeq,16h	07:00	23:00	K = 0 dBA	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Day	LAeq dB	Leq dB	Lmin dB		Lmax dB		L90 dB		L10 dB			
Fri 24/11/2023	51.8	51.8	44.9		76.8		47.4		53.1			
Sat 25/11/2023	50.5	50.5	43.1		73.3		45.9		52.1			
Sun 26/11/2023	47.9	47.9	33.7		73.0		39.6		49.7			
Mon 27/11/2023	50.5	50.5	44.1		68.2		47.0		52.6			
Tue 28/11/2023	51.4	51.4	42.7		65.0		48.0		53.3			
Period	Night-time (LAeq)											
Time slots	LAeq,8h	23:00	07:00	K = 0 dBA	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Day	LAeq dB	Leq dB	Lmin dB		Lmax dB		L90 dB		L10 dB			
Fri 24/11/2023												
Sat 25/11/2023	48.9	48.9	42.5		68.9		45.5		50.8			
Sun 26/11/2023	46.5	46.5	32.5		71.8		37.1		49.6			
Mon 27/11/2023	48.8	48.8	33.2		64.9		42.6		51.4			
Tue 28/11/2023	48.0	48.0	40.5		65.9		43.1		50.1			

LMax analysis

82

Periods	1m	Rank	Level
		1st LMax	94.6
		5th LMax	89.9
		10th LMax	82
		15th LMax	77.3
Start	24/11/2023 23:00		
End	25/11/2023 06:59		
Location	ML1		
Weighting	A		
Data type	Lmax		
Unit	dB		
Period start	Lmax		
24/11/2023 23:00	71.4		
24/11/2023 23:01	69.1		
24/11/2023 23:02	68.2		
24/11/2023 23:03	68.5		
24/11/2023 23:04	69		
24/11/2023 23:05	73.1		
24/11/2023 23:06	69.4		
24/11/2023 23:07	68.9		
24/11/2023 23:08	68.5		
24/11/2023 23:09	70.6		
24/11/2023 23:10	71.8		
24/11/2023 23:11	71.8		
24/11/2023 23:12	73.8		
24/11/2023 23:13	75.2		
24/11/2023 23:14	69		
24/11/2023 23:15	69.1		
24/11/2023 23:16	72.8		
24/11/2023 23:17	70.3		
24/11/2023 23:18	71.8		
24/11/2023 23:19	68.5		
24/11/2023 23:20	72.1		
24/11/2023 23:21	68.1		
24/11/2023 23:22	74.1		
24/11/2023 23:23	68.1		
24/11/2023 23:24	70.5		
24/11/2023 23:25	70.2		
24/11/2023 23:26	67.3		
24/11/2023 23:27	69.4		
24/11/2023 23:28	66.1		
24/11/2023 23:29	72.3		
24/11/2023 23:30	67.2		
24/11/2023 23:31	69.1		
24/11/2023 23:32	71.6		
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24/11/2023 23:34	71.1		
24/11/2023 23:35	73.1		
24/11/2023 23:36	71.5		
24/11/2023 23:37	70.6		
24/11/2023 23:38	69.8		
24/11/2023 23:39	66.4		

24/11/2023 23:40	67.4
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24/11/2023 23:49	69.3
24/11/2023 23:50	89.9
24/11/2023 23:51	88.4
24/11/2023 23:52	71
24/11/2023 23:53	68.2
24/11/2023 23:54	68.7
24/11/2023 23:55	70.8
24/11/2023 23:56	69.3
24/11/2023 23:57	94.6
24/11/2023 23:58	81.6
24/11/2023 23:59	68.6
25/11/2023 00:00	65
25/11/2023 00:01	72
25/11/2023 00:02	69.6
25/11/2023 00:03	70.9
25/11/2023 00:04	70.5
25/11/2023 00:05	69.2
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25/11/2023 00:18	72.3
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25/11/2023 00:20	70.9
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25/11/2023 00:24	69
25/11/2023 00:25	71.4
25/11/2023 00:26	65.8
25/11/2023 00:27	70.3
25/11/2023 00:28	71.2
25/11/2023 00:29	67.7

25/11/2023 00:30	66.4
25/11/2023 00:31	70.2
25/11/2023 00:32	74.4
25/11/2023 00:33	68.5
25/11/2023 00:34	67.2
25/11/2023 00:35	73.8
25/11/2023 00:36	68.2
25/11/2023 00:37	73.1
25/11/2023 00:38	68.5
25/11/2023 00:39	73.5
25/11/2023 00:40	69
25/11/2023 00:41	68.6
25/11/2023 00:42	68.1
25/11/2023 00:43	69
25/11/2023 00:44	69.5
25/11/2023 00:45	71
25/11/2023 00:46	89.9
25/11/2023 00:47	71.2
25/11/2023 00:48	68.7
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25/11/2023 01:06	64.1
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25/11/2023 01:09	70.4
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25/11/2023 01:19	66.6

25/11/2023 01:20	69.7
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25/11/2023 01:23	67
25/11/2023 01:24	67.5
25/11/2023 01:25	74.9
25/11/2023 01:26	92.9
25/11/2023 01:27	73.1
25/11/2023 01:28	62.6
25/11/2023 01:29	74.1
25/11/2023 01:30	74.1
25/11/2023 01:31	62.5
25/11/2023 01:32	69.7
25/11/2023 01:33	69.7
25/11/2023 01:34	70.8
25/11/2023 01:35	70.9
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25/11/2023 02:35	69.4
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25/11/2023 02:42	76
25/11/2023 02:43	67.9
25/11/2023 02:44	69
25/11/2023 02:45	69.6
25/11/2023 02:46	71.8
25/11/2023 02:47	74.6
25/11/2023 02:48	65.3
25/11/2023 02:49	72.2
25/11/2023 02:50	71.1
25/11/2023 02:51	66
25/11/2023 02:52	71.2
25/11/2023 02:53	75.1
25/11/2023 02:54	69.5
25/11/2023 02:55	71.4
25/11/2023 02:56	54.3
25/11/2023 02:57	67.6
25/11/2023 02:58	70
25/11/2023 02:59	69.1

25/11/2023 03:00	70.9
25/11/2023 03:01	69
25/11/2023 03:02	74
25/11/2023 03:03	63.7
25/11/2023 03:04	68.1
25/11/2023 03:05	66.3
25/11/2023 03:06	70.3
25/11/2023 03:07	67.2
25/11/2023 03:08	72.6
25/11/2023 03:09	71.5
25/11/2023 03:10	66.1
25/11/2023 03:11	71
25/11/2023 03:12	73.3
25/11/2023 03:13	69.6
25/11/2023 03:14	73.2
25/11/2023 03:15	66.3
25/11/2023 03:16	76.4
25/11/2023 03:17	73.3
25/11/2023 03:18	66.4
25/11/2023 03:19	69.1
25/11/2023 03:20	70.3
25/11/2023 03:21	67.6
25/11/2023 03:22	70.8
25/11/2023 03:23	70.9
25/11/2023 03:24	73.4
25/11/2023 03:25	68.8
25/11/2023 03:26	73
25/11/2023 03:27	69
25/11/2023 03:28	68.9
25/11/2023 03:29	68.1
25/11/2023 03:30	68.7
25/11/2023 03:31	65.6
25/11/2023 03:32	66.7
25/11/2023 03:33	70
25/11/2023 03:34	64.1
25/11/2023 03:35	67.5
25/11/2023 03:36	63.1
25/11/2023 03:37	71.7
25/11/2023 03:38	62.2
25/11/2023 03:39	66.9
25/11/2023 03:40	69.3
25/11/2023 03:41	70.4
25/11/2023 03:42	69.9
25/11/2023 03:43	69
25/11/2023 03:44	75.1
25/11/2023 03:45	72.8
25/11/2023 03:46	71.8
25/11/2023 03:47	67.2
25/11/2023 03:48	68.9
25/11/2023 03:49	68.5

25/11/2023 03:50	65.8
25/11/2023 03:51	64.4
25/11/2023 03:52	79.5
25/11/2023 03:53	71.5
25/11/2023 03:54	75.4
25/11/2023 03:55	72.1
25/11/2023 03:56	68.5
25/11/2023 03:57	68
25/11/2023 03:58	76.1
25/11/2023 03:59	73
25/11/2023 04:00	83.2
25/11/2023 04:01	66.7
25/11/2023 04:02	63.3
25/11/2023 04:03	63.9
25/11/2023 04:04	67.1
25/11/2023 04:05	70.5
25/11/2023 04:06	46.2
25/11/2023 04:07	61.5
25/11/2023 04:08	67
25/11/2023 04:09	73.9
25/11/2023 04:10	65.8
25/11/2023 04:11	69.2
25/11/2023 04:12	65.3
25/11/2023 04:13	68
25/11/2023 04:14	64.9
25/11/2023 04:15	67.5
25/11/2023 04:16	71
25/11/2023 04:17	67.9
25/11/2023 04:18	67.9
25/11/2023 04:19	67
25/11/2023 04:20	69.7
25/11/2023 04:21	49.9
25/11/2023 04:22	64.8
25/11/2023 04:23	67.8
25/11/2023 04:24	64.9
25/11/2023 04:25	69.7
25/11/2023 04:26	69.3
25/11/2023 04:27	73.5
25/11/2023 04:28	51.7
25/11/2023 04:29	64.5
25/11/2023 04:30	70.3
25/11/2023 04:31	71.8
25/11/2023 04:32	67.1
25/11/2023 04:33	70.2
25/11/2023 04:34	66.8
25/11/2023 04:35	52.8
25/11/2023 04:36	65
25/11/2023 04:37	66.3
25/11/2023 04:38	70
25/11/2023 04:39	82

25/11/2023 04:40	70.1
25/11/2023 04:41	68.1
25/11/2023 04:42	68.8
25/11/2023 04:43	70.9
25/11/2023 04:44	67.7
25/11/2023 04:45	71
25/11/2023 04:46	69.6
25/11/2023 04:47	69.5
25/11/2023 04:48	68.6
25/11/2023 04:49	69.4
25/11/2023 04:50	75.3
25/11/2023 04:51	70.5
25/11/2023 04:52	68.8
25/11/2023 04:53	67.1
25/11/2023 04:54	70.1
25/11/2023 04:55	65.5
25/11/2023 04:56	70
25/11/2023 04:57	77.3
25/11/2023 04:58	75.3
25/11/2023 04:59	70.2
25/11/2023 05:00	69
25/11/2023 05:01	70
25/11/2023 05:02	74.2
25/11/2023 05:03	73.3
25/11/2023 05:04	64.6
25/11/2023 05:05	67.5
25/11/2023 05:06	66.3
25/11/2023 05:07	72.3
25/11/2023 05:08	64.3
25/11/2023 05:09	69.5
25/11/2023 05:10	67.6
25/11/2023 05:11	66.5
25/11/2023 05:12	70.5
25/11/2023 05:13	73.5
25/11/2023 05:14	69.4
25/11/2023 05:15	69.9
25/11/2023 05:16	64.7
25/11/2023 05:17	57.3
25/11/2023 05:18	73
25/11/2023 05:19	70.5
25/11/2023 05:20	58.2
25/11/2023 05:21	73.2
25/11/2023 05:22	72.4
25/11/2023 05:23	72.8
25/11/2023 05:24	67
25/11/2023 05:25	65.2
25/11/2023 05:26	73.1
25/11/2023 05:27	72.1
25/11/2023 05:28	66.5
25/11/2023 05:29	62.5

25/11/2023 05:30	70.5
25/11/2023 05:31	67.8
25/11/2023 05:32	63.2
25/11/2023 05:33	69.8
25/11/2023 05:34	65.7
25/11/2023 05:35	70.2
25/11/2023 05:36	72.8
25/11/2023 05:37	71.4
25/11/2023 05:38	65.5
25/11/2023 05:39	71.3
25/11/2023 05:40	65.1
25/11/2023 05:41	70
25/11/2023 05:42	70.7
25/11/2023 05:43	67.4
25/11/2023 05:44	66.1
25/11/2023 05:45	69.6
25/11/2023 05:46	71.1
25/11/2023 05:47	68.3
25/11/2023 05:48	71.6
25/11/2023 05:49	72.3
25/11/2023 05:50	70.4
25/11/2023 05:51	62.4
25/11/2023 05:52	72.9
25/11/2023 05:53	72.5
25/11/2023 05:54	73.7
25/11/2023 05:55	69
25/11/2023 05:56	74.5
25/11/2023 05:57	71.7
25/11/2023 05:58	70.7
25/11/2023 05:59	72.2
25/11/2023 06:00	71.4
25/11/2023 06:01	71.5
25/11/2023 06:02	71.5
25/11/2023 06:03	66.3
25/11/2023 06:04	69.2
25/11/2023 06:05	70
25/11/2023 06:06	67.9
25/11/2023 06:07	73.3
25/11/2023 06:08	73.9
25/11/2023 06:09	71.8
25/11/2023 06:10	70.7
25/11/2023 06:11	73.8
25/11/2023 06:12	59.2
25/11/2023 06:13	73.8
25/11/2023 06:14	76.1
25/11/2023 06:15	74.3
25/11/2023 06:16	72.5
25/11/2023 06:17	68
25/11/2023 06:18	49.5
25/11/2023 06:19	68.7

25/11/2023 06:20	70.5
25/11/2023 06:21	72
25/11/2023 06:22	71
25/11/2023 06:23	68.8
25/11/2023 06:24	67.4
25/11/2023 06:25	66.4
25/11/2023 06:26	57
25/11/2023 06:27	70.1
25/11/2023 06:28	70.3
25/11/2023 06:29	71.4
25/11/2023 06:30	68.7
25/11/2023 06:31	71.4
25/11/2023 06:32	73.2
25/11/2023 06:33	68
25/11/2023 06:34	72.2
25/11/2023 06:35	69.6
25/11/2023 06:36	68.7
25/11/2023 06:37	68.3
25/11/2023 06:38	71.8
25/11/2023 06:39	69.4
25/11/2023 06:40	73.9
25/11/2023 06:41	74.7
25/11/2023 06:42	
25/11/2023 06:43	
25/11/2023 06:44	
25/11/2023 06:45	
25/11/2023 06:46	
25/11/2023 06:47	
25/11/2023 06:48	
25/11/2023 06:49	
25/11/2023 06:50	
25/11/2023 06:51	
25/11/2023 06:52	
25/11/2023 06:53	
25/11/2023 06:54	
25/11/2023 06:55	
25/11/2023 06:56	
25/11/2023 06:57	
25/11/2023 06:58	
25/11/2023 06:59	
Overall	94.6

LMax analysis

62.1

Periods Start End Location Weighting Data type Unit	1m 24/11/2023 23:00 25/11/2023 06:59 ML2 A Lmax dB	Rank	Level
		1st LMax	68.9
		5th LMax	61.2
		10th LMax	60.3
		15th LMax	58.9
Period start		Lmax	
24/11/2023 23:00			
24/11/2023 23:01			
24/11/2023 23:02			
24/11/2023 23:03			
24/11/2023 23:04			
24/11/2023 23:05			
24/11/2023 23:06			
24/11/2023 23:07			
24/11/2023 23:08			
24/11/2023 23:09			
24/11/2023 23:10			
24/11/2023 23:11			
24/11/2023 23:12			
24/11/2023 23:13			
24/11/2023 23:14			
24/11/2023 23:15			
24/11/2023 23:16			
24/11/2023 23:17			
24/11/2023 23:18			
24/11/2023 23:19			
24/11/2023 23:20			
24/11/2023 23:21			
24/11/2023 23:22			
24/11/2023 23:23			
24/11/2023 23:24			
24/11/2023 23:25			
24/11/2023 23:26			
24/11/2023 23:27			
24/11/2023 23:28			
24/11/2023 23:29			
24/11/2023 23:30			
24/11/2023 23:31			
24/11/2023 23:32			
24/11/2023 23:33			
24/11/2023 23:34			
24/11/2023 23:35			
24/11/2023 23:36			
24/11/2023 23:37			
24/11/2023 23:38			
24/11/2023 23:39			
24/11/2023 23:40			
24/11/2023 23:41			
24/11/2023 23:42			
24/11/2023 23:43			
24/11/2023 23:44			
24/11/2023 23:45			
24/11/2023 23:46			
24/11/2023 23:47			
24/11/2023 23:48			
24/11/2023 23:49			
24/11/2023 23:50			
24/11/2023 23:51			
24/11/2023 23:52			
24/11/2023 23:53			
24/11/2023 23:54			
24/11/2023 23:55			
24/11/2023 23:56			
24/11/2023 23:57			
24/11/2023 23:58			
24/11/2023 23:59			
25/11/2023 00:00			
25/11/2023 00:01			
25/11/2023 00:02			
25/11/2023 00:03			
25/11/2023 00:04			
25/11/2023 00:05			
25/11/2023 00:06			
25/11/2023 00:07			
25/11/2023 00:08		57.3	
25/11/2023 00:09		58.4	
25/11/2023 00:10		54.2	
25/11/2023 00:11		55.7	
25/11/2023 00:12		57.6	
25/11/2023 00:13		55.5	
25/11/2023 00:14		55.7	
25/11/2023 00:15		52.7	
25/11/2023 00:16		57.6	
25/11/2023 00:17		57.3	
25/11/2023 00:18		53.5	
25/11/2023 00:19		58.5	
25/11/2023 00:20		54.3	
25/11/2023 00:21		54.5	
25/11/2023 00:22		56.3	
25/11/2023 00:23		54.9	
25/11/2023 00:24		55.9	
25/11/2023 00:25		54	
25/11/2023 00:26		55.5	
25/11/2023 00:27		55.1	
25/11/2023 00:28		57	

Periods Start End Location Weighting Data type Unit	1m 25/11/2023 23:00 26/11/2023 06:59 ML2 A Lmax dB	Rank	Level
		1st LAmay	71.8
		5th LAmay	60.7
		10th LAmay	60.1
		15th LAmay	57.8
Period start		Lmax	
25/11/2023 23:00			
25/11/2023 23:01			
25/11/2023 23:02			
25/11/2023 23:03			
25/11/2023 23:04			
25/11/2023 23:05			
25/11/2023 23:06			
25/11/2023 23:07			
25/11/2023 23:08			
25/11/2023 23:09			
25/11/2023 23:10			
25/11/2023 23:11			
25/11/2023 23:12			
25/11/2023 23:13			
25/11/2023 23:14			
25/11/2023 23:15			
25/11/2023 23:16			
25/11/2023 23:17			
25/11/2023 23:18			
25/11/2023 23:19			
25/11/2023 23:20			
25/11/2023 23:21			
25/11/2023 23:22			
25/11/2023 23:23			
25/11/2023 23:24			
25/11/2023 23:25			
25/11/2023 23:26			
25/11/2023 23:27			
25/11/2023 23:28			
25/11/2023 23:29			
25/11/2023 23:30			
25/11/2023 23:31			
25/11/2023 23:32			
25/11/2023 23:33			
25/11/2023 23:34			
25/11/2023 23:35			
25/11/2023 23:36			
25/11/2023 23:37			
25/11/2023 23:38			
25/11/2023 23:39			
25/11/2023 23:40			
25/11/2023 23:41			
25/11/2023 23:42			
25/11/2023 23:43			
25/11/2023 23:44			
25/11/2023 23:45			
25/11/2023 23:46			
25/11/2023 23:47			
25/11/2023 23:48			
25/11/2023 23:49			
25/11/2023 23:50			
25/11/2023 23:51			
25/11/2023 23:52			
25/11/2023 23:53			
25/11/2023 23:54			
25/11/2023 23:55			
25/11/2023 23:56			
25/11/2023 23:57			
25/11/2023 23:58		50.4	
25/11/2023 23:59		51.5	
26/11/2023 00:00		57.6	
26/11/2023 00:01		50.4	
26/11/2023 00:02		49.6	
26/11/2023 00:03		52.7	
26/11/2023 00:04		52.5	
26/11/2023 00:05		50	
26/11/2023 00:06		53.9	
26/11/2023 00:07		54.2	
26/11/2023 00:08		50	
26/11/2023 00:09		51.9	
26/11/2023 00:10		50.6	
26/11/2023 00:11		54.1	
26/11/2023 00:12		53.4	
26/11/2023 00:13		57.7	
26/11/2023 00:14		52.5	
26/11/2023 00:15		51	
26/11/2023 00:16		50.8	
26/11/2023 00:17		50.1	
26/11/2023 00:18		48.8	
26/11/2023 00:19		53.3	
26/11/2023 00:20		50.9	
26/11/2023 00:21		52.3	
26/11/2023 00:22		53.5	
26/11/2023 00:23		52	
26/11/2023 00:24		54.3	
26/11/2023 00:25		52.8	
26/11/2023 00:26		51.9	
26/11/2023 00:27		55.3	
26/11/2023 00:28		52.6	

25/11/2023 00:29	56.9	26/11/2023 00:29	56.2
25/11/2023 00:30	58.5	26/11/2023 00:30	52.6
25/11/2023 00:31	54	26/11/2023 00:31	53.4
25/11/2023 00:32	55.9	26/11/2023 00:32	55.2
25/11/2023 00:33	54.8	26/11/2023 00:33	57.2
25/11/2023 00:34	53.3	26/11/2023 00:34	54.6
25/11/2023 00:35	59.4	26/11/2023 00:35	54.4
25/11/2023 00:36	61.2	26/11/2023 00:36	53.9
25/11/2023 00:37	53.7	26/11/2023 00:37	62.4
25/11/2023 00:38	55.8	26/11/2023 00:38	54.4
25/11/2023 00:39	55	26/11/2023 00:39	52.2
25/11/2023 00:40	55.2	26/11/2023 00:40	55.5
25/11/2023 00:41	51.2	26/11/2023 00:41	53.1
25/11/2023 00:42	52.4	26/11/2023 00:42	54.6
25/11/2023 00:43	53.7	26/11/2023 00:43	53.3
25/11/2023 00:44	52.5	26/11/2023 00:44	52.8
25/11/2023 00:45	55.2	26/11/2023 00:45	52.1
25/11/2023 00:46	60.9	26/11/2023 00:46	54.4
25/11/2023 00:47	53.7	26/11/2023 00:47	54.8
25/11/2023 00:48	51.9	26/11/2023 00:48	51.1
25/11/2023 00:49	52.3	26/11/2023 00:49	51.5
25/11/2023 00:50	53.1	26/11/2023 00:50	53
25/11/2023 00:51	54.7	26/11/2023 00:51	57.8
25/11/2023 00:52	53.7	26/11/2023 00:52	54.7
25/11/2023 00:53	57.1	26/11/2023 00:53	54.1
25/11/2023 00:54	52.9	26/11/2023 00:54	55.1
25/11/2023 00:55	50.6	26/11/2023 00:55	53.2
25/11/2023 00:56	51.5	26/11/2023 00:56	52.8
25/11/2023 00:57	51.8	26/11/2023 00:57	53.9
25/11/2023 00:58	52.5	26/11/2023 00:58	51.7
25/11/2023 00:59	50	26/11/2023 00:59	53.1
25/11/2023 01:00	51.9	26/11/2023 01:00	50.8
25/11/2023 01:01	56	26/11/2023 01:01	56.1
25/11/2023 01:02	50.7	26/11/2023 01:02	62.5
25/11/2023 01:03	54.3	26/11/2023 01:03	52
25/11/2023 01:04	53.6	26/11/2023 01:04	54.3
25/11/2023 01:05	56.9	26/11/2023 01:05	56.1
25/11/2023 01:06	59.4	26/11/2023 01:06	51.4
25/11/2023 01:07	58.7	26/11/2023 01:07	55.4
25/11/2023 01:08	53.9	26/11/2023 01:08	60.1
25/11/2023 01:09	60.9	26/11/2023 01:09	56.7
25/11/2023 01:10	57.8	26/11/2023 01:10	60.6
25/11/2023 01:11	57.9	26/11/2023 01:11	60.5
25/11/2023 01:12	53.7	26/11/2023 01:12	58.4
25/11/2023 01:13	59.3	26/11/2023 01:13	60.1
25/11/2023 01:14	56	26/11/2023 01:14	52.6
25/11/2023 01:15	54.4	26/11/2023 01:15	55.7
25/11/2023 01:16	54.6	26/11/2023 01:16	56.1
25/11/2023 01:17	54.5	26/11/2023 01:17	52.7
25/11/2023 01:18	59	26/11/2023 01:18	56.5
25/11/2023 01:19	55.2	26/11/2023 01:19	58.3
25/11/2023 01:20	54.5	26/11/2023 01:20	53.6
25/11/2023 01:21	53.5	26/11/2023 01:21	53.4
25/11/2023 01:22	57.2	26/11/2023 01:22	56.3
25/11/2023 01:23	55.8	26/11/2023 01:23	53.5
25/11/2023 01:24	55.4	26/11/2023 01:24	53.8
25/11/2023 01:25	55.7	26/11/2023 01:25	53
25/11/2023 01:26	64.3	26/11/2023 01:26	53.2
25/11/2023 01:27	49.6	26/11/2023 01:27	50.3
25/11/2023 01:28	54.7	26/11/2023 01:28	50.1
25/11/2023 01:29	52.2	26/11/2023 01:29	51.6
25/11/2023 01:30	53.8	26/11/2023 01:30	52.2
25/11/2023 01:31	52.8	26/11/2023 01:31	53
25/11/2023 01:32	52	26/11/2023 01:32	52.5
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25/11/2023 06:15	55.4	26/11/2023 06:15	47.3
25/11/2023 06:16	52.3	26/11/2023 06:16	60.7
25/11/2023 06:17	48.3	26/11/2023 06:17	57.6
25/11/2023 06:18	47	26/11/2023 06:18	39.7
25/11/2023 06:19	48.4	26/11/2023 06:19	51.7
25/11/2023 06:20	53.4	26/11/2023 06:20	39.7
25/11/2023 06:21	49.7	26/11/2023 06:21	42.8
25/11/2023 06:22	53.1	26/11/2023 06:22	41.5
25/11/2023 06:23	57.7	26/11/2023 06:23	48.8
25/11/2023 06:24	48.5	26/11/2023 06:24	50.6
25/11/2023 06:25	48.9	26/11/2023 06:25	41.4
25/11/2023 06:26	50.1	26/11/2023 06:26	50.6
25/11/2023 06:27	48.5	26/11/2023 06:27	40.9
25/11/2023 06:28	52.2	26/11/2023 06:28	41.5
25/11/2023 06:29	50.1	26/11/2023 06:29	53.1
25/11/2023 06:30	50.4	26/11/2023 06:30	47.7
25/11/2023 06:31	57.4	26/11/2023 06:31	40.3
25/11/2023 06:32	50.8	26/11/2023 06:32	53.7
25/11/2023 06:33	61.1	26/11/2023 06:33	54.8
25/11/2023 06:34	51.2	26/11/2023 06:34	47.8
25/11/2023 06:35	49.1	26/11/2023 06:35	41.7
25/11/2023 06:36	55.9	26/11/2023 06:36	44.3
25/11/2023 06:37	60.3	26/11/2023 06:37	49.4
25/11/2023 06:38	52.7	26/11/2023 06:38	55.5
25/11/2023 06:39	53	26/11/2023 06:39	48
25/11/2023 06:40	51.5	26/11/2023 06:40	55.3
25/11/2023 06:41	49.5	26/11/2023 06:41	60.3
25/11/2023 06:42	49.3	26/11/2023 06:42	50
25/11/2023 06:43	57.5	26/11/2023 06:43	44.9
25/11/2023 06:44	50.3	26/11/2023 06:44	42.1
25/11/2023 06:45	58.1	26/11/2023 06:45	41.8
25/11/2023 06:46	68.9	26/11/2023 06:46	46.9
25/11/2023 06:47	53.1	26/11/2023 06:47	54.2
25/11/2023 06:48	53.2	26/11/2023 06:48	48.8
25/11/2023 06:49	51.8	26/11/2023 06:49	43.8
25/11/2023 06:50	52.6	26/11/2023 06:50	52.7
25/11/2023 06:51	60.8	26/11/2023 06:51	51.1
25/11/2023 06:52	51.9	26/11/2023 06:52	47.9
25/11/2023 06:53	51.2	26/11/2023 06:53	49.5
25/11/2023 06:54	52.5	26/11/2023 06:54	49.5
25/11/2023 06:55	53.8	26/11/2023 06:55	50
25/11/2023 06:56	51.9	26/11/2023 06:56	49.2
25/11/2023 06:57	49.4	26/11/2023 06:57	52.7
25/11/2023 06:58	52.3	26/11/2023 06:58	54.7
25/11/2023 06:59	53	26/11/2023 06:59	41.3
Overall	68.9	Overall	71.8

Periods Start End Location Weighting Data type Unit	1m 26/11/2023 23:00 27/11/2023 06:59 ML2 A Lmax dB	Rank	Level				
		1st LAmaz	64.9				
		5th LAmaz	61				
		10th LAmaz	59.1				
		15th LAmaz	58.3				
Period start				Lmax			
26/11/2023 23:00							
26/11/2023 23:01							
26/11/2023 23:02							
26/11/2023 23:03							
26/11/2023 23:04							
26/11/2023 23:05							
26/11/2023 23:06							
26/11/2023 23:07							
26/11/2023 23:08							
26/11/2023 23:09							
26/11/2023 23:10							
26/11/2023 23:11							
26/11/2023 23:12							
26/11/2023 23:13							
26/11/2023 23:14							
26/11/2023 23:15							
26/11/2023 23:16							
26/11/2023 23:17							
26/11/2023 23:18							
26/11/2023 23:19							
26/11/2023 23:20							
26/11/2023 23:21							
26/11/2023 23:22							
26/11/2023 23:23							
26/11/2023 23:24							
26/11/2023 23:25							
26/11/2023 23:26							
26/11/2023 23:27							
26/11/2023 23:28							
26/11/2023 23:29							
26/11/2023 23:30							
26/11/2023 23:31							
26/11/2023 23:32							
26/11/2023 23:33							
26/11/2023 23:34							
26/11/2023 23:35							
26/11/2023 23:36							
26/11/2023 23:37							
26/11/2023 23:38							
26/11/2023 23:39							
26/11/2023 23:40							
26/11/2023 23:41							
26/11/2023 23:42							
26/11/2023 23:43							
26/11/2023 23:44							
26/11/2023 23:45							
26/11/2023 23:46							
26/11/2023 23:47							
26/11/2023 23:48							
26/11/2023 23:49							
26/11/2023 23:50							
26/11/2023 23:51							
26/11/2023 23:52							
26/11/2023 23:53							
26/11/2023 23:54							
26/11/2023 23:55							
26/11/2023 23:56				50.6			
26/11/2023 23:57				53.7			
26/11/2023 23:58				55.5			
26/11/2023 23:59				54.5			
27/11/2023 00:00				54.4			
27/11/2023 00:01				54.1			
27/11/2023 00:02				56.5			
27/11/2023 00:03				56.7			
27/11/2023 00:04				53.7			
27/11/2023 00:05				55.9			
27/11/2023 00:06				52.6			
27/11/2023 00:07				56.2			
27/11/2023 00:08				56.5			
27/11/2023 00:09				53.8			
27/11/2023 00:10				54.4			
27/11/2023 00:11				53.8			
27/11/2023 00:12				54.7			
27/11/2023 00:13				52.6			
27/11/2023 00:14				54.5			
27/11/2023 00:15				55.8			
27/11/2023 00:16				55.1			
27/11/2023 00:17				55.2			
27/11/2023 00:18				53.4			
27/11/2023 00:19				53.6			
27/11/2023 00:20				53.5			
27/11/2023 00:21				53.6			
27/11/2023 00:22				54.6			
27/11/2023 00:23				55.1			
27/11/2023 00:24				54.7			
27/11/2023 00:25				58.8			
27/11/2023 00:26				56.3			
27/11/2023 00:27				56.8			
27/11/2023 00:28				57.6			

Periods Start End Location Weighting Data type Unit	1m 27/11/2023 23:00 28/11/2023 06:59 ML2 A Lmax dB	Rank	Level
		1st LAmaz	65.9
		5th LAmaz	64.6
		10th LAmaz	62.1
		15th LAmaz	59.9
Period start		Lmax	
27/11/2023 23:00			
27/11/2023 23:01			
27/11/2023 23:02			
27/11/2023 23:03			
27/11/2023 23:04			
27/11/2023 23:05			
27/11/2023 23:06			
27/11/2023 23:07			
27/11/2023 23:08			
27/11/2023 23:09			
27/11/2023 23:10			
27/11/2023 23:11			
27/11/2023 23:12			
27/11/2023 23:13			
27/11/2023 23:14			
27/11/2023 23:15			
27/11/2023 23:16			
27/11/2023 23:17			
27/11/2023 23:18			
27/11/2023 23:19			
27/11/2023 23:20			
27/11/2023 23:21			
27/11/2023 23:22			
27/11/2023 23:23			
27/11/2023 23:24			
27/11/2023 23:25			
27/11/2023 23:26			
27/11/2023 23:27			
27/11/2023 23:28			
27/11/2023 23:29			
27/11/2023 23:30			
27/11/2023 23:31			
27/11/2023 23:32			
27/11/2023 23:33			
27/11/2023 23:34			
27/11/2023 23:35			
27/11/2023 23:36			
27/11/2023 23:37			
27/11/2023 23:38			
27/11/2023 23:39			
27/11/2023 23:40			
27/11/2023 23:41			
27/11/2023 23:42			
27/11/2023 23:43			
27/11/2023 23:44			
27/11/2023 23:45			
27/11/2023 23:46			
27/11/2023 23:47			
27/11/2023 23:48			
27/11/2023 23:49			
27/11/2023 23:50			
27/11/2023 23:51			
27/11/2023 23:52			
27/11/2023 23:53			
27/11/2023 23:54			
27/11/2023 23:55			
27/11/2023 23:56			
27/11/2023 23:57			
27/11/2023 23:58			
27/11/2023 23:59			
28/11/2023 00:00			
28/11/2023 00:01			
28/11/2023 00:02			
28/11/2023 00:03			
28/11/2023 00:04			
28/11/2023 00:05			
28/11/2023 00:06			
28/11/2023 00:07			
28/11/2023 00:08			
28/11/2023 00:09			
28/11/2023 00:10			
28/11/2023 00:11			
28/11/2023 00:12			
28/11/2023 00:13			
28/11/2023 00:14			
28/11/2023 00:15			
28/11/2023 00:16			
28/11/2023 00:17			
28/11/2023 00:18			
28/11/2023 00:19			
28/11/2023 00:20			
28/11/2023 00:21			
28/11/2023 00:22			
28/11/2023 00:23			
28/11/2023 00:24			
28/11/2023 00:25			
28/11/2023 00:26			
28/11/2023 00:27			
28/11/2023 00:28			

27/11/2023 00:29	56.4	28/11/2023 00:29	
27/11/2023 00:30	56	28/11/2023 00:30	
27/11/2023 00:31	56.1	28/11/2023 00:31	
27/11/2023 00:32	56.3	28/11/2023 00:32	
27/11/2023 00:33	54.4	28/11/2023 00:33	
27/11/2023 00:34	53.9	28/11/2023 00:34	
27/11/2023 00:35	54.5	28/11/2023 00:35	
27/11/2023 00:36	55.1	28/11/2023 00:36	
27/11/2023 00:37	58.6	28/11/2023 00:37	
27/11/2023 00:38	58.9	28/11/2023 00:38	
27/11/2023 00:39	57.1	28/11/2023 00:39	
27/11/2023 00:40	55.7	28/11/2023 00:40	48.6
27/11/2023 00:41	58.1	28/11/2023 00:41	56
27/11/2023 00:42	53.7	28/11/2023 00:42	52
27/11/2023 00:43	56.7	28/11/2023 00:43	50
27/11/2023 00:44	60	28/11/2023 00:44	49.4
27/11/2023 00:45	56	28/11/2023 00:45	51.3
27/11/2023 00:46	57.3	28/11/2023 00:46	50.9
27/11/2023 00:47	56.4	28/11/2023 00:47	58
27/11/2023 00:48	55.1	28/11/2023 00:48	55.3
27/11/2023 00:49	57.2	28/11/2023 00:49	51.6
27/11/2023 00:50	54.5	28/11/2023 00:50	49.4
27/11/2023 00:51	54.3	28/11/2023 00:51	50
27/11/2023 00:52	56.8	28/11/2023 00:52	51.7
27/11/2023 00:53	61.3	28/11/2023 00:53	54.6
27/11/2023 00:54	54	28/11/2023 00:54	48.1
27/11/2023 00:55	53.8	28/11/2023 00:55	52.4
27/11/2023 00:56	57	28/11/2023 00:56	53.2
27/11/2023 00:57	53.6	28/11/2023 00:57	50.3
27/11/2023 00:58	55.7	28/11/2023 00:58	49.6
27/11/2023 00:59	53.8	28/11/2023 00:59	51.8
27/11/2023 01:00	54.2	28/11/2023 01:00	52.6
27/11/2023 01:01	53.8	28/11/2023 01:01	58.7
27/11/2023 01:02	58.2	28/11/2023 01:02	51
27/11/2023 01:03	54.5	28/11/2023 01:03	50.3
27/11/2023 01:04	56.3	28/11/2023 01:04	59.3
27/11/2023 01:05	57.1	28/11/2023 01:05	57.2
27/11/2023 01:06	58.9	28/11/2023 01:06	58
27/11/2023 01:07	53.7	28/11/2023 01:07	50.1
27/11/2023 01:08	54.5	28/11/2023 01:08	51.2
27/11/2023 01:09	53.5	28/11/2023 01:09	49.4
27/11/2023 01:10	53	28/11/2023 01:10	52.2
27/11/2023 01:11	58.3	28/11/2023 01:11	50.6
27/11/2023 01:12	52.5	28/11/2023 01:12	55
27/11/2023 01:13	53.9	28/11/2023 01:13	52.2
27/11/2023 01:14	59.2	28/11/2023 01:14	55.3
27/11/2023 01:15	56.2	28/11/2023 01:15	55.3
27/11/2023 01:16	51.9	28/11/2023 01:16	51.2
27/11/2023 01:17	52.9	28/11/2023 01:17	51.1
27/11/2023 01:18	52.3	28/11/2023 01:18	49.1
27/11/2023 01:19	52.3	28/11/2023 01:19	51
27/11/2023 01:20	54.1	28/11/2023 01:20	52.8
27/11/2023 01:21	53.6	28/11/2023 01:21	63.1
27/11/2023 01:22	50.5	28/11/2023 01:22	51.7
27/11/2023 01:23	53.1	28/11/2023 01:23	54.3
27/11/2023 01:24	57.2	28/11/2023 01:24	55.8
27/11/2023 01:25	56.3	28/11/2023 01:25	58.5
27/11/2023 01:26	55.6	28/11/2023 01:26	55.4
27/11/2023 01:27	54.9	28/11/2023 01:27	52.2
27/11/2023 01:28	54.4	28/11/2023 01:28	51.2
27/11/2023 01:29	52.5	28/11/2023 01:29	50.7
27/11/2023 01:30	51.9	28/11/2023 01:30	48.7
27/11/2023 01:31	52.7	28/11/2023 01:31	48.6
27/11/2023 01:32	52.2	28/11/2023 01:32	50.8
27/11/2023 01:33	52.9	28/11/2023 01:33	52.9
27/11/2023 01:34	50.2	28/11/2023 01:34	63.4
27/11/2023 01:35	50.6	28/11/2023 01:35	56.8
27/11/2023 01:36	50.9	28/11/2023 01:36	51.9
27/11/2023 01:37	55.9	28/11/2023 01:37	49.8
27/11/2023 01:38	49.6	28/11/2023 01:38	49.7
27/11/2023 01:39	54.7	28/11/2023 01:39	56.9
27/11/2023 01:40	53.3	28/11/2023 01:40	50.6
27/11/2023 01:41	52.3	28/11/2023 01:41	50.4
27/11/2023 01:42	59.4	28/11/2023 01:42	53.8
27/11/2023 01:43	51.7	28/11/2023 01:43	47.8
27/11/2023 01:44	51.6	28/11/2023 01:44	47.8
27/11/2023 01:45	50.8	28/11/2023 01:45	51.4
27/11/2023 01:46	51	28/11/2023 01:46	51.6
27/11/2023 01:47	50.7	28/11/2023 01:47	51.6
27/11/2023 01:48	52.9	28/11/2023 01:48	55.9
27/11/2023 01:49	52.7	28/11/2023 01:49	47.8
27/11/2023 01:50	49.4	28/11/2023 01:50	48.8
27/11/2023 01:51	51.1	28/11/2023 01:51	47.4
27/11/2023 01:52	50	28/11/2023 01:52	51.3
27/11/2023 01:53	50.2	28/11/2023 01:53	53.1
27/11/2023 01:54	49.6	28/11/2023 01:54	48.3
27/11/2023 01:55	49	28/11/2023 01:55	49.1
27/11/2023 01:56	52.1	28/11/2023 01:56	47.9
27/11/2023 01:57	50.2	28/11/2023 01:57	50.2
27/11/2023 01:58	49.2	28/11/2023 01:58	52
27/11/2023 01:59	56	28/11/2023 01:59	65.4
27/11/2023 02:00	57.6	28/11/2023 02:00	59.9
27/11/2023 02:01	48.6	28/11/2023 02:01	52.6
27/11/2023 02:02	49.4	28/11/2023 02:02	47.3
27/11/2023 02:03	52.8	28/11/2023 02:03	54.4
27/11/2023 02:04	54.3	28/11/2023 02:04	55.5
27/11/2023 02:05	49.1	28/11/2023 02:05	43.7
27/11/2023 02:06	49.7	28/11/2023 02:06	49.6
27/11/2023 02:07	47.3	28/11/2023 02:07	64.8
27/11/2023 02:08	57.4	28/11/2023 02:08	59.8

27/11/2023 02:09	51.3
27/11/2023 02:10	48.1
27/11/2023 02:11	48.5
27/11/2023 02:12	52.7
27/11/2023 02:13	50.4
27/11/2023 02:14	47.4
27/11/2023 02:15	47.2
27/11/2023 02:16	49.2
27/11/2023 02:17	50.2
27/11/2023 02:18	49.2
27/11/2023 02:19	51.8
27/11/2023 02:20	48.4
27/11/2023 02:21	49
27/11/2023 02:22	53.3
27/11/2023 02:23	48.6
27/11/2023 02:24	53.8
27/11/2023 02:25	48.6
27/11/2023 02:26	55.1
27/11/2023 02:27	48.4
27/11/2023 02:28	50.6
27/11/2023 02:29	47.3
27/11/2023 02:30	50
27/11/2023 02:31	54.1
27/11/2023 02:32	46.3
27/11/2023 02:33	50.8
27/11/2023 02:34	51.7
27/11/2023 02:35	50.3
27/11/2023 02:36	49.5
27/11/2023 02:37	51.3
27/11/2023 02:38	46.6
27/11/2023 02:39	47.7
27/11/2023 02:40	47.2
27/11/2023 02:41	50.7
27/11/2023 02:42	47.9
27/11/2023 02:43	48.8
27/11/2023 02:44	51.2
27/11/2023 02:45	45.7
27/11/2023 02:46	47.9
27/11/2023 02:47	45.8
27/11/2023 02:48	48
27/11/2023 02:49	49.6
27/11/2023 02:50	49.8
27/11/2023 02:51	48.6
27/11/2023 02:52	46.7
27/11/2023 02:53	46.8
27/11/2023 02:54	47.6
27/11/2023 02:55	47.2
27/11/2023 02:56	50.6
27/11/2023 02:57	48.1
27/11/2023 02:58	45.9
27/11/2023 02:59	53.4
27/11/2023 03:00	48.5
27/11/2023 03:01	47
27/11/2023 03:02	46.7
27/11/2023 03:03	51.3
27/11/2023 03:04	45.7
27/11/2023 03:05	48
27/11/2023 03:06	45.5
27/11/2023 03:07	48.4
27/11/2023 03:08	49.8
27/11/2023 03:09	51.3
27/11/2023 03:10	52.9
27/11/2023 03:11	47.8
27/11/2023 03:12	54.6
27/11/2023 03:13	47.2
27/11/2023 03:14	47.3
27/11/2023 03:15	47.6
27/11/2023 03:16	49.5
27/11/2023 03:17	47.7
27/11/2023 03:18	48.9
27/11/2023 03:19	56.8
27/11/2023 03:20	49.3
27/11/2023 03:21	47.8
27/11/2023 03:22	51.3
27/11/2023 03:23	48.4
27/11/2023 03:24	50.2
27/11/2023 03:25	49.3
27/11/2023 03:26	48.8
27/11/2023 03:27	49.4
27/11/2023 03:28	54.3
27/11/2023 03:29	52.3
27/11/2023 03:30	49.8
27/11/2023 03:31	51.4
27/11/2023 03:32	
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27/11/2023 03:45	
27/11/2023 03:46	
27/11/2023 03:47	
27/11/2023 03:48	

28/11/2023 02:09	54.9
28/11/2023 02:10	48
28/11/2023 02:11	46.9
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27/11/2023 06:28		28/11/2023 06:28	58.3
27/11/2023 06:29	54.4	28/11/2023 06:29	53
27/11/2023 06:30	54.7	28/11/2023 06:30	59.1
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27/11/2023 06:32	55.6	28/11/2023 06:32	51.6
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27/11/2023 06:52	63	28/11/2023 06:52	52.2
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27/11/2023 06:54	53.4	28/11/2023 06:54	57.8
27/11/2023 06:55	56.9	28/11/2023 06:55	53.9
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27/11/2023 06:57	55.2	28/11/2023 06:57	60.3
27/11/2023 06:58	64.9	28/11/2023 06:58	55.1
27/11/2023 06:59	60.5	28/11/2023 06:59	54.3
Overall	64.9	Overall	65.9