



REPORT REFERENCE:

IMP7561-1.1

ENVIRONMENTAL NOISE IMPACT ASSESSMENT

Sports England

CLIENT:

I J Murray Associates Ltd

SITE:

200 Sea Front

Hayling Island

Hampshire

PO11 9HR

SURVEY DATES:

18th – 23rd April 2024

[Impact Acoustics Ltd](#)

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1 EXECUTIVE SUMMARY

1.1 Instruction

Impact Acoustics Ltd have been instructed by I J Murray Associates Ltd to undertake a background noise survey at their existing premises at 200 Sea Front, Hayling Island Hampshire, PO11 9HR to understand the level of impact at the residents property from the propose new Padel Tennis Courts at the rear of the existing Seacourt Tennis Club, Hayling Island. This report has been undertaken by ourselves on behalf of the residents of No.200 to verify the validity of the noise impact assessment issued by Venta Acoustics on behalf of the Seacourt Tennis Club. A separate report is to be issued to review their noise report in detail.

1.2 Scope of Report

The measurements have been undertaken in accordance with ISO 1996 – Part 2: 2017 to establish if the proposed site has a demonstrable adverse effect in terms of noise that outweigh the benefits of the development. This report aims to establish the following in line with the Sports England ‘Design Guidance Note’ .:

- Existing background noise levels at the residential façade (L_{A90});
- Noise levels from a Typical Padel tennis Court (L_{Aeq}) including contours;
- Impact on the nearest noise sensitive property.
- Mitigation Levels if Required.

1.3 Measured Background Noise Levels

Continuous background noise measurements were undertaken between the 18th - 23rd April 2024 at the Assessment Position 1. The day time background noise levels between 07:00 and 23:00 was found to be $L_{A90,1 \text{ hour}}$ 35 dB and the daytime background noise level between 07:00 and 19:00 found to be $L_{A90,1 \text{ hour}}$ 38 dB at the assessment position. This background noise level has been assessed during daytime hours only as the courts will not operate at night. Furthermore, they are not expected to operate past 19:00 hrs.

Daytime Equivalent Existing Background Noise Levels 4 days (07:00 – 23:00)	Measured Levels at Assessment Position 1	$L_{Aeq, t}$ 49 dB	$L_{A90, t}$ 35 dB
Night time Equivalent Existing Background Noise Levels 4 days (07:00 – 19:00)	Measured Levels at Assessment Position 1	$L_{Aeq, t}$ 49 dB	$L_{A90, t}$ 38 dB

1.4 Proposed Operational Noise Levels

3D Models have been generated based on data collected from a Padel Court doubles game in Winchester, where the following data has been captured:-

Location	LAeq	LAFmax	Octave Band Centre Frequency (Hz)									
			31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz	16.0 kHz
Open Side @ 1m	61.9	83.8	52.1	51.6	55.0	58.0	58.2	58.8	53.2	48.1	39.8	31.7
Open Side @ 3m	57.9	78.4	50.1	48.2	52.4	54.8	55.3	54.4	48.0	43.1	32.2	18.3
End @ 1m	50.9	70.8	67.6	63.2	57.9	49.0	47.5	46.0	41.5	37.4	29.3	20.0
End @ 3m	47.0	64.1	53.3	51.6	45.8	40.9	37.8	37.1	44.0	36.8	26.4	17.2

The values have been replicated on an acoustic model and calculation made to the nearest affected residential dwellings surrounding the proposed courts.

1.5 Mitigation Measures

Venta Acoustics proposed a 2.0m acoustic screen to the north and south on the open sectioned long edges of the courts. However, our calculations demonstrate that in order to reduce the impact away from an adverse impact; acoustic screening at a height of at least 3 metres along the south boundary would be required. It should be noted however, that this screening height would bring its own series of planning complications in itself i.e visual impact of fencing at 3 metres high.

1.6 Assessment

The following assessment has been undertaken in accordance with the criteria set out within the Sports England 'Design Guidance Note'.

Location	Sports England Criteria		
	Façade not exceed 50 dB LAeq,1hour	Gardens not exceed 50 dB LAeq,1hour	Noise not to exceed existing noise climate. 49 dB LAeq,1hour
South 1 st Floor	51 dB	53.1 dB	51 dB
South G nd Floor	51 dB		51 dB
South 1 st Floor 2m Screen	51 dB	48.1 dB	51 dB
South G nd Floor 2m Screen	48 dB		48 dB

Location	Sports England Criteria		
	Façade not exceed 50 dB LAeq,1hour	Gardens not exceed 50 dB LAeq,1hour	Noise not to exceed existing noise climate. 49 dB LAeq,1hour
North 1 st Floor	47 dB	49.2 dB	47 dB
North Ground Floor	46 dB		46 dB
North 1 st Floor 2m Screen	45 dB	46.0 dB	45 dB
North G nd Floor 2m Screen	47 dB		47 dB

1.7 Conclusions

The operation of the proposed two Padel Courts has been assessed to establish if these will be compliant with the Sports England Criteria.

1.8 NPPF 2023

National Planning Policy Framework 2023 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

2 INTRODUCTION

2.1 Instruction

Impact Acoustics Ltd have been instructed by I J Murray Associates Ltd to undertake a background noise survey at their existing premises at 200 Sea Front, Hayling Island Hampshire, PO11 9HR to understand the level of impact at the residents property from the propose new Padel Tennis Courts at the rear of the existing Seacourt Tennis Club, Hayling Island. This report has been undertaken by ourselves on behalf of the residents of No.200 to verify the validity of the noise impact assessment issued by Venta Acoustics on behalf of the Seacourt Tennis Club. A separate report is to be issued to review their noise report in detail.

The purpose of this assessment is to ensure the acoustic protection of noise sensitive premises closest to the proposed Padel Courts. Noise sensitive premises are not restricted to residential dwellings as offices can be affected by unwanted external noise. However, the residential premises adjacent to the site have been identified as the nearest noise sensitive and therefore all calculations and assessments are to be made to these positions.

2.2 Ambient and Background Measurements

External noise levels are to be recorded over, what has been considered for the site, an average / typical time period in order to assess the daytime noise levels. Levels have been recorded over more than one day in order to ensure the uncertainty of measurement aspects has been satisfied and that the data recorded is representative for the purpose of a robust assessment.

2.3 Sports England 'Design Guidance Note'

The following assessment has been undertaken in accordance with the criteria set out within the Sports England 'Design Guidance Note'.

The following suggested criteria are summarised from this document:-

1. The noise level outside a residential property during the daytime about 1 metre from facades of living spaces should not exceed 50 dB LAeq,1hour.
2. Noise levels in gardens should not exceed 50 dB LAeq,1hour.
3. Noise from the new pitch not to exceed the existing noise climate.

2.4 National Planning Policy Framework 2023 & Noise Policy Statement for England 2010

References and evaluations are to be made to the National Planning Policy Framework 2023 (NPPF) and the Noise Policy Statement for England 2010 (NPSE). The purpose of this document is to include all aspects of environmental noise within assessments i.e. environmental noise, neighbour noise and neighbourhood noise. Noise is to be considered alongside other relevant issues relating to the site and should not be considered in isolation, according to the NPSE.

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

2.5 “Significant adverse” and “adverse”

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

2.6 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.

2.7 LOAEL – Lowest Observed Adverse Effect Level

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

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

2.8 SOAEL – Significant Observed Adverse Effect Level

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

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.

3 SITE LOCATION

3.1 Position of Site in Wider Area

The site is located in Hayling Island.



3.2 Assessment Position and Background Position

Continuous measurements were undertaken at the assessment position between the 18th – 23rd April 2024. Measurement was undertaken at ground floor level at the representative nearest noise sensitive premises / receptor in accordance with ISO1996 part 2: 2017.

4 RESULTS

Continuous background noise measurements were undertaken between the 18th - 23rd April 2024 at the Assessment Position 1. The day time background noise levels between 07:00 and 23:00 was found to be $L_{A90,1 \text{ hour}}$ 35 dB and the daytime background noise level between 07:00 and 19:00 found to be $L_{A90,1 \text{ hour}}$ 38 dB at the assessment position. This background noise level has been assessed during daytime hours only as the courts will not operate at night. Furthermore, they are not expected to operate past 19:00 hrs.

Daytime Equivalent Existing Background Noise Levels 4 days (07:00 – 23:00)	Measured Levels at Assessment Position 1	$L_{Aeq, t}$ 49 dB	$L_{A90, t}$ 35 dB
Night time Equivalent Existing Background Noise Levels 4 days (07:00 – 19:00)	Measured Levels at Assessment Position 1	$L_{Aeq, t}$ 49 dB	$L_{A90, t}$ 38 dB

5 APPARATUS

5.1 Equipment Calibration

The equipment was calibrated using a sound pressure level of 114.0 dB at an octave band centre frequency of 1000Hz with reference to $2 \times 10^{-5} \text{ Nm}^{-2}$ before and after the tests and the equipment set to have no inaccuracy greater than 0.2 dB.

All the following equipment was calibrated in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service (UKAS) on the following dates. Calibration schedules are implemented within Sound Advice Acoustics Ltd in accordance with UKAS directive LAB 23.

5.2 Position 1 - 118 NOISE METER s/n 31632

Description	Make	Type	Serial No.	Calibration Intervals	Last Calibrated	Next Due Calibration
Integrated Sound Level Meter	Norsonic	118	31632	2 YEARS	25.07.2022	25.07.2024
12.5mm Microphone (with windshield)	Norsonic	1225	91720	2 YEARS	25.07.2022	25.07.2024
Microphone Pre – Amplifier	Norsonic	1201	29307	2 YEARS	25.07.2022	25.07.2024
Calibrator	Norsonic	1251	31310	1 YEAR	0.12 dB	22.09.2024

The noise meter was calibrated before and after the assessment period and found to be within the tolerance of the manufacturer's guidance. Full Calibration certificates are available upon request.

6 CALCULATIONS

6.1 Proposed Operational Noise Levels

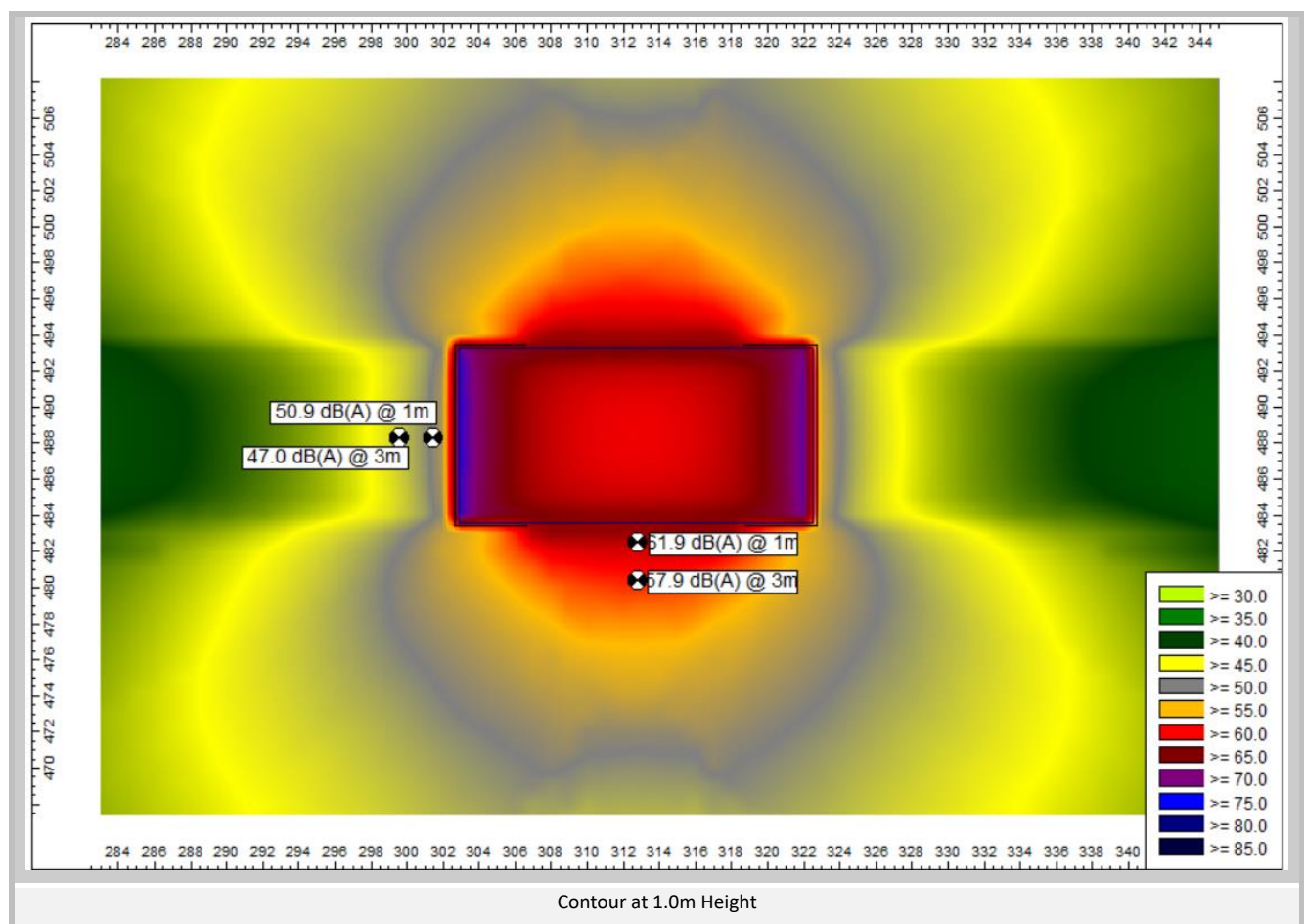
3D Models have been generated based on data collected from a Padel Court doubles game in Winchester, where the following data has been captured:-

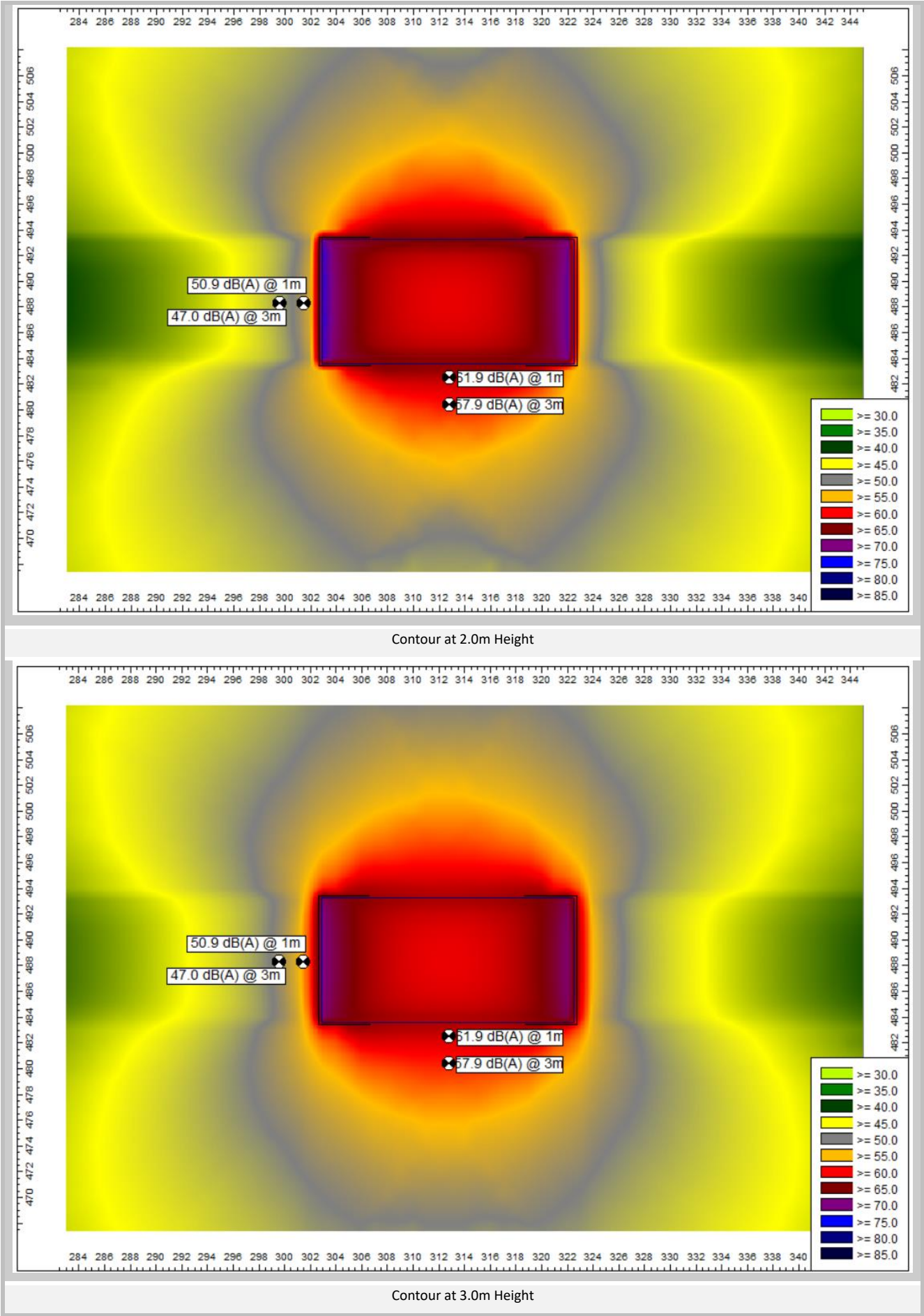
Location	LAeq	LAFmax	Octave Band Centre Frequency (Hz)									
			31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz	16.0 kHz
Open Side @ 1m	61.9	83.8	52.1	51.6	55.0	58.0	58.2	58.8	53.2	48.1	39.8	31.7
Open Side @ 3m	57.9	78.4	50.1	48.2	52.4	54.8	55.3	54.4	48.0	43.1	32.2	18.3
End @ 1m	50.9	70.8	67.6	63.2	57.9	49.0	47.5	46.0	41.5	37.4	29.3	20.0
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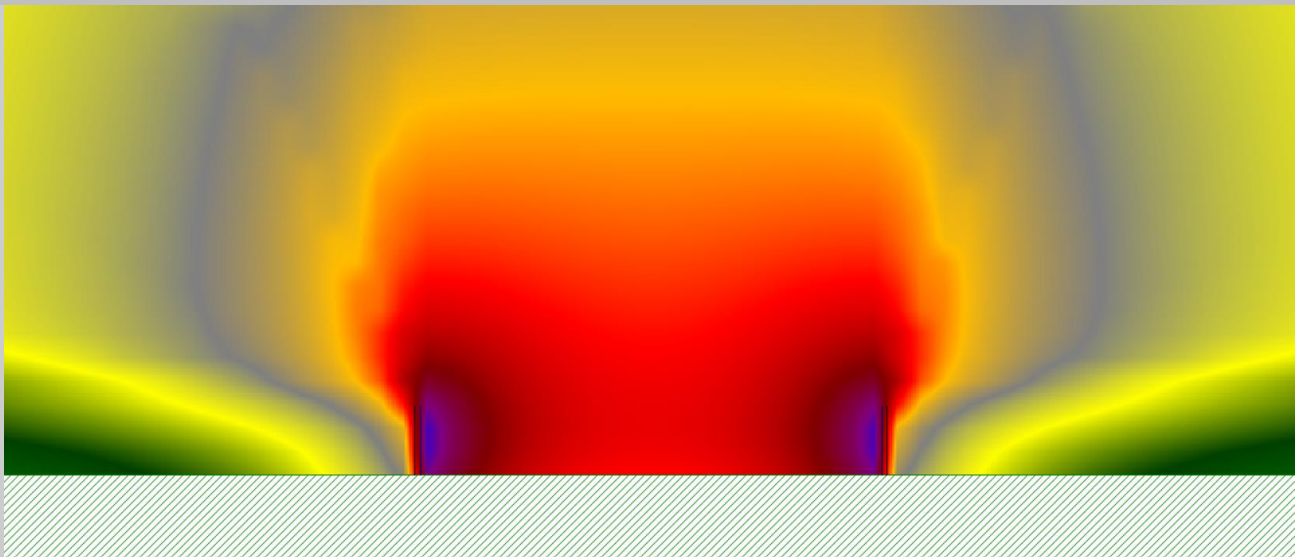
The values have been replicated on an acoustic model and calculation made to the nearest affected residential dwellings surrounding the proposed courts.

6.2 Typical Padel Court

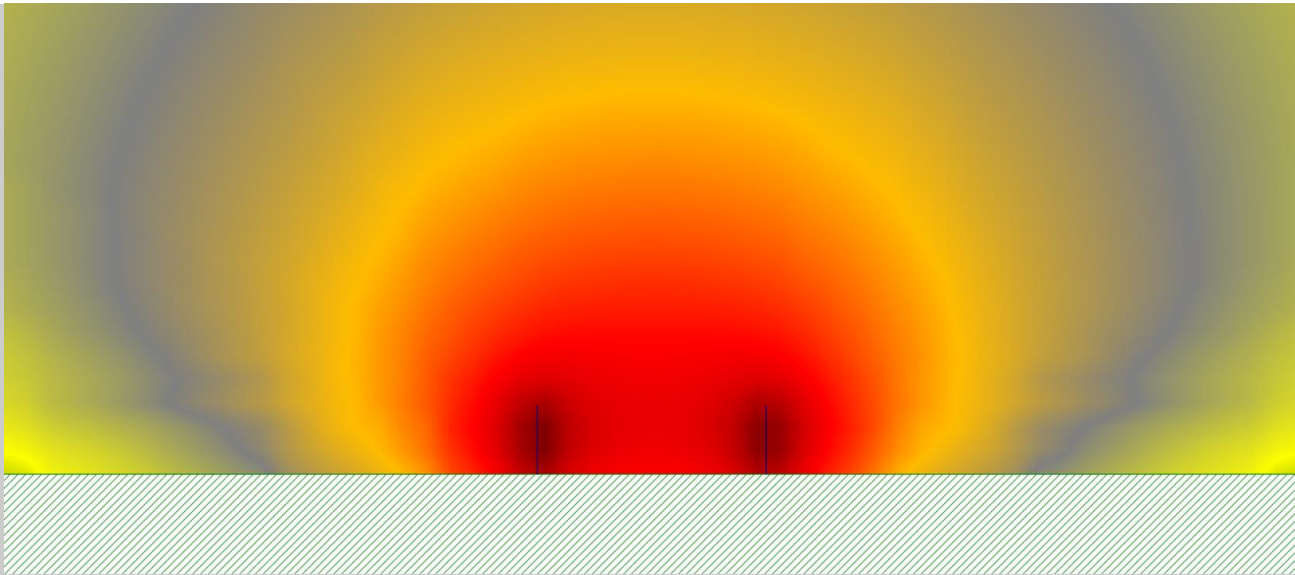
Noise levels have been captured from a typical Padel Court in Winchester during a doubles match.



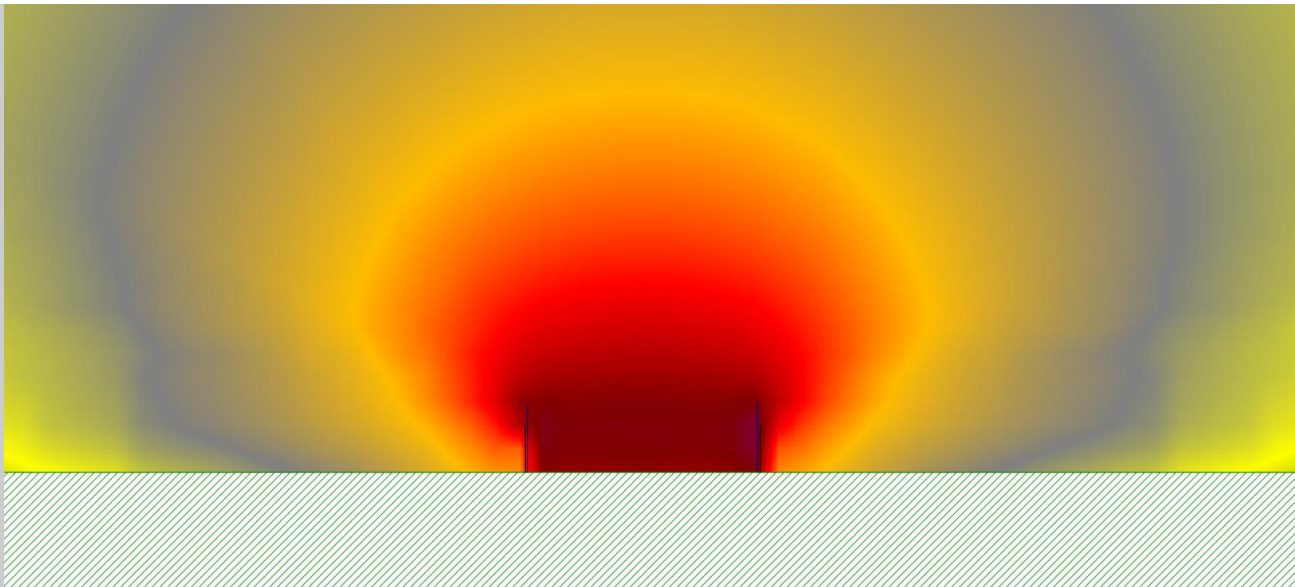




Section Through Court – Lengthways 2.9m Glass Either End



Section Through Court – Sideways Open Sides



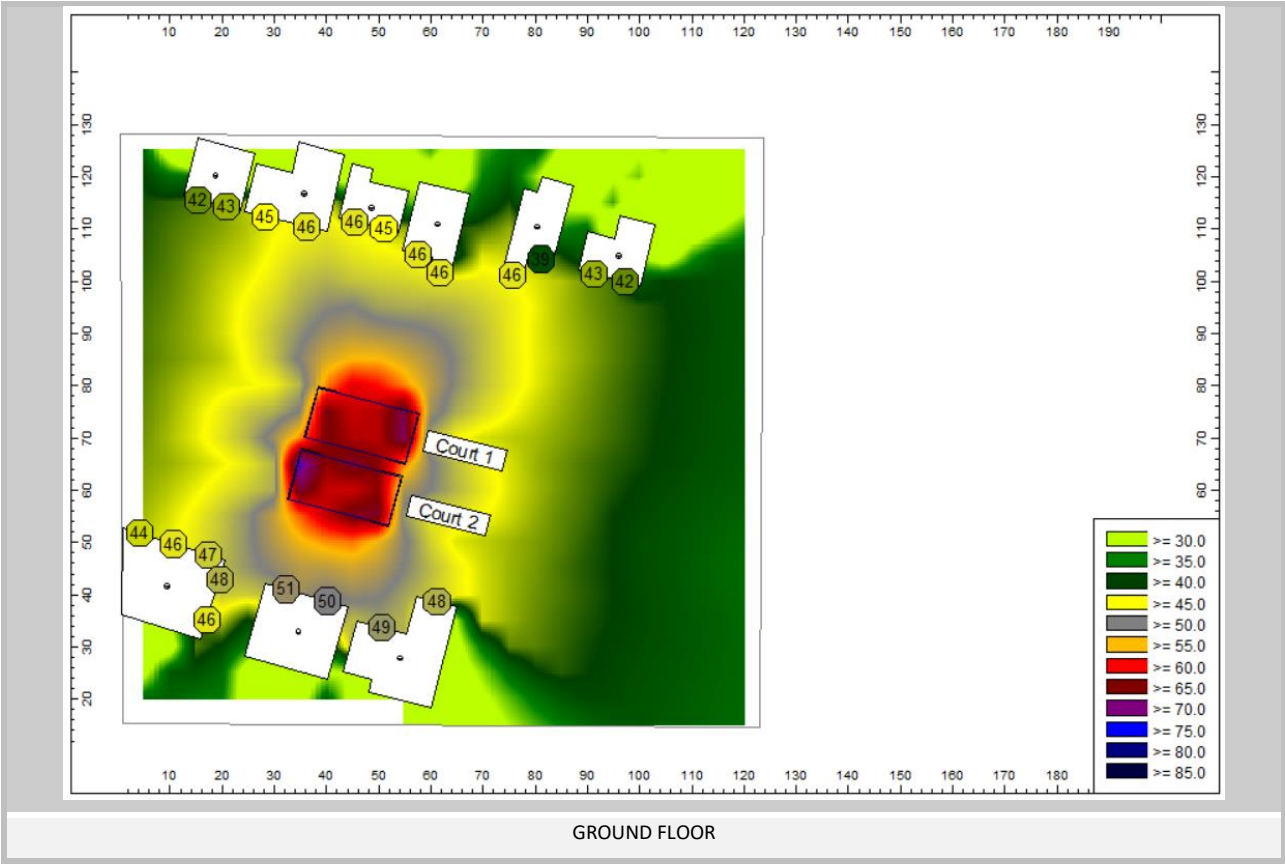
Section Through Court – Sideways 2.0m Glass Sections



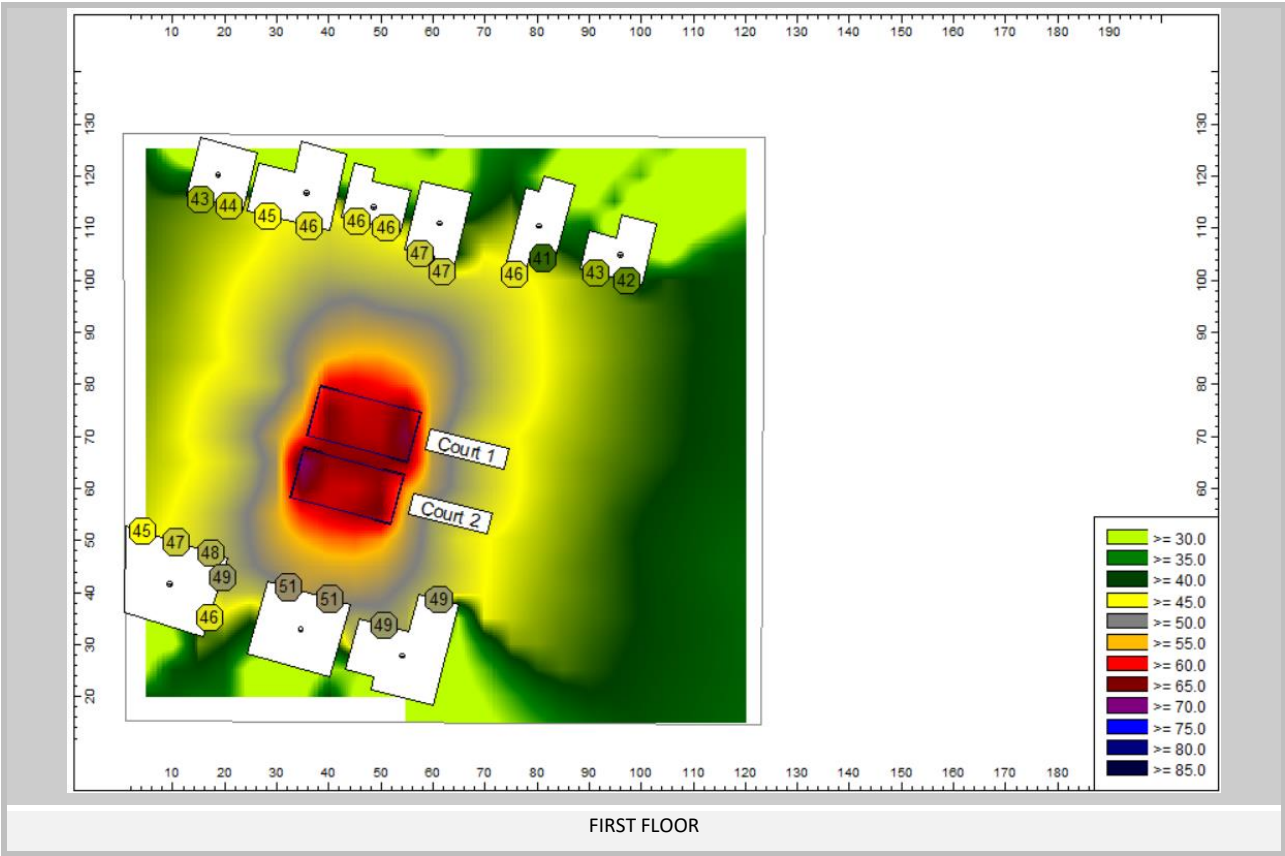
The above values have been imposed onto the following CADNA A models to accurately calculate the resultant noise levels.

6.3 Calculated Noise Levels

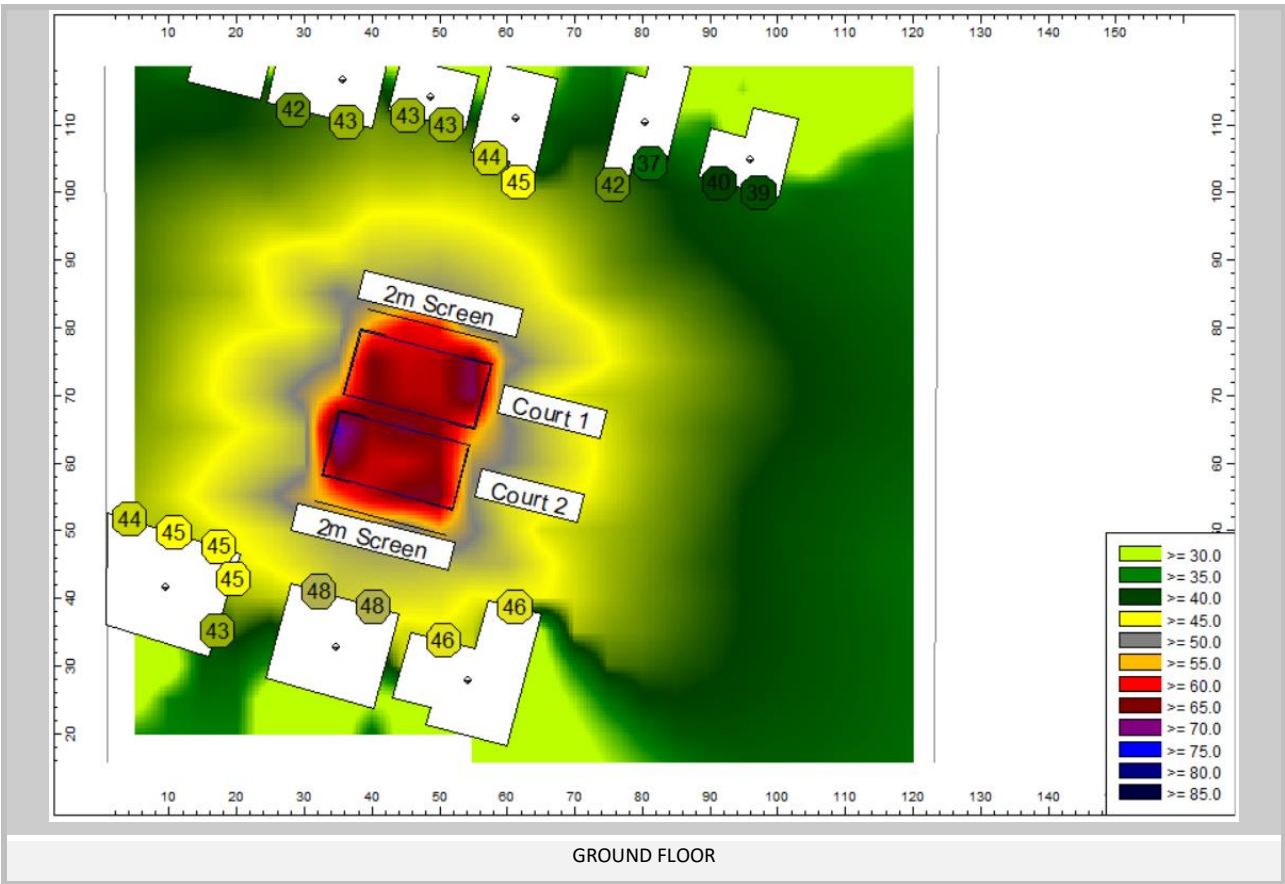
6.3.1 Ground Floor - No Screens



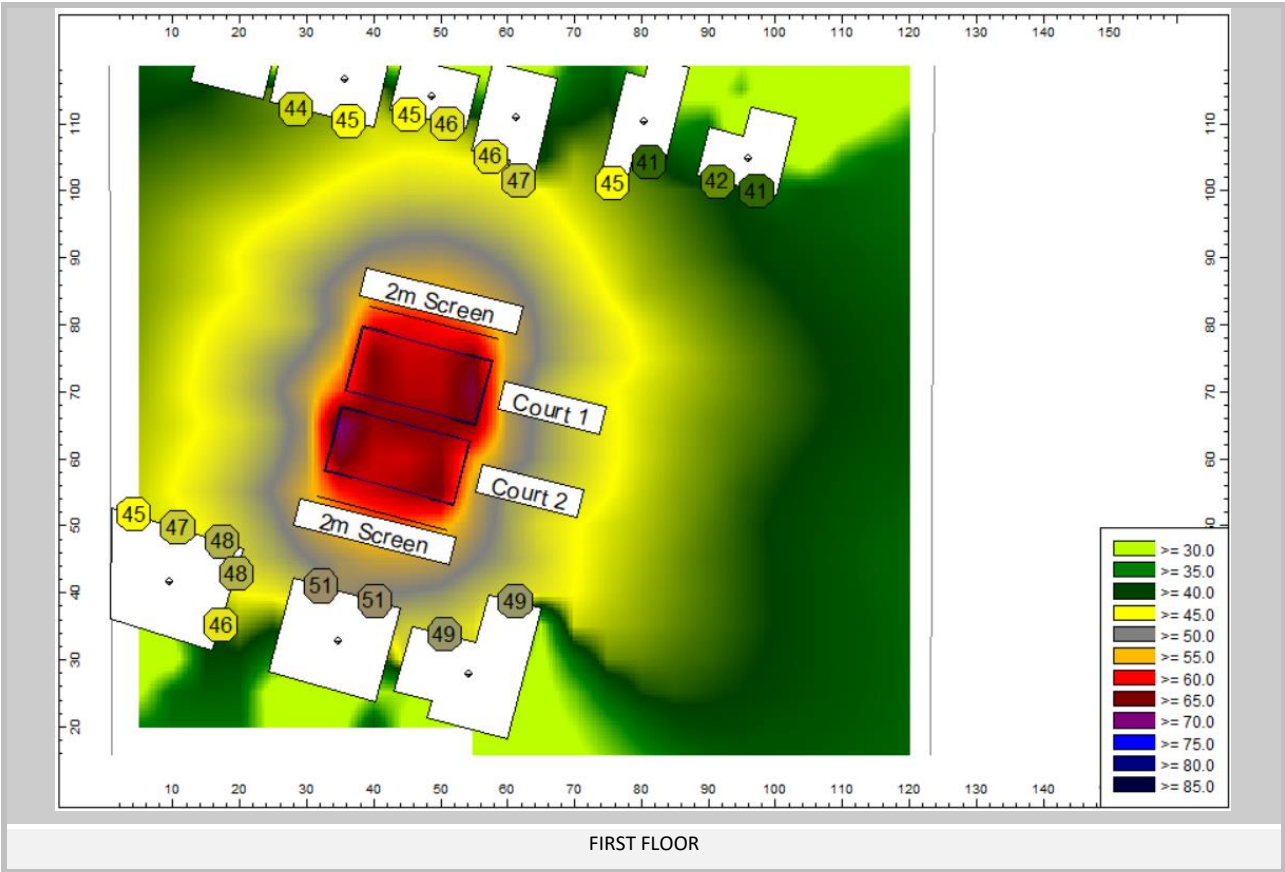
6.3.2 First Floor - No Screens



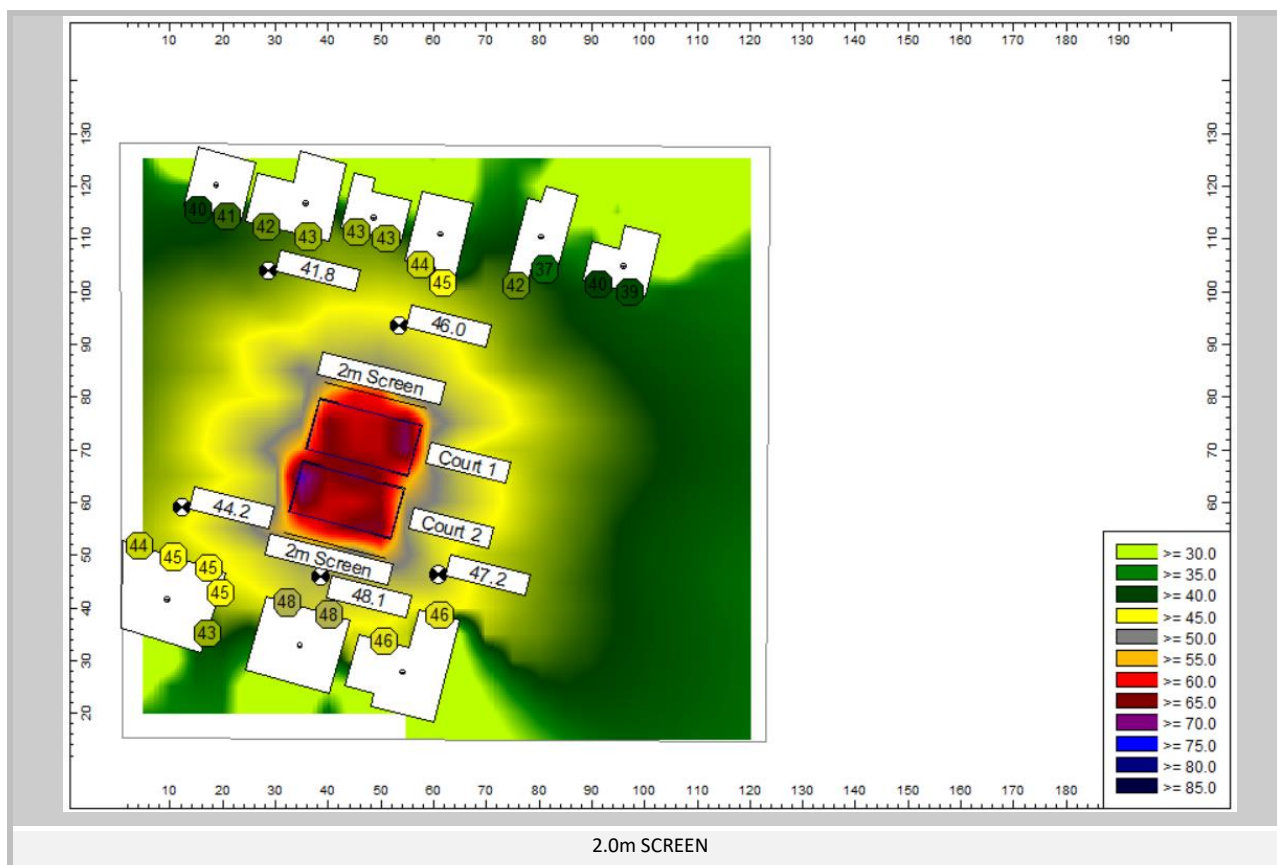
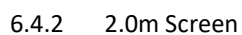
6.3.3 Ground Floor – 2.0m Screens



6.3.4 First Floor – 2.0m Screens



6.4.1 No Screen



6.5 Summary of Results & Assessments

The following assessment has been undertaken in accordance with the criteria set out within the Sports England 'Design Guidance Note'.

Location	Sports England Criteria		
	Façade not exceed 50 dB LAeq,1hour	Gardens not exceed 50 dB LAeq,1hour	Noise not to exceed existing noise climate. 49 dB LAeq,1hour
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South G nd Floor	51 dB		51 dB
South 1 st Floor 2m Screen	51 dB	48.1 dB	51 dB
South G nd Floor 2m Screen	48 dB		48 dB

Location	Sports England Criteria		
	Façade not exceed 50 dB LAeq,1hour	Gardens not exceed 50 dB LAeq,1hour	Noise not to exceed existing noise climate. 49 dB LAeq,1hour
North 1 st Floor	47 dB	49.2 dB	47 dB
North Ground Floor	46 dB		46 dB
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North G nd Floor 2m Screen	47 dB		47 dB

6.6 Mitigation Measures

Venta Acoustics proposed a 2.0m acoustic screen to the north and south on the open sectioned long edges of the courts. However, our calculations demonstrate that in order to reduce the impact away from an adverse impact; acoustic screening at a height of at least 3 metres along the south boundary would be required. It should be noted however, that this screening height would bring its own series of planning complications in itself i.e visual impact of fencing at 3 metres high.

7 NPPF & NPSE

The National Planning Policy Framework 2023 (NPPF) and assessments to the Noise Policy Statement for England 2010 (NPSE) should be made in conjunction with each other. Paragraphs 191 - 194 of the National Planning Policy Framework 2023 (NPPF) states the following:

Paragraph 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.

Paragraph 192 Planning policies and decisions should sustain and contribute towards compliance with relevant limit values or national objectives for pollutants. So far as possible these opportunities should be considered at the plan-making stage, to ensure a strategic approach and limit the need for issues to be reconsidered when determining individual applications.

Paragraph 193 Planning policies and decisions should ensure that new development can be integrated effectively with existing businesses and community facilities (such as places of worship, pubs, music venues and sports clubs). Existing businesses and facilities should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or 'agent of change') should be required to provide suitable mitigation before the development has been completed.

Paragraph 194 The focus of planning policies and decisions should be on whether proposed development is an acceptable use of land, rather than the control of processes or emissions (where these are subject to separate pollution control regimes). Planning decisions should assume that these regimes will operate effectively. Equally, where a planning decision has been made on a particular development, the planning issues should not be revisited through the permitting regimes operated by pollution control authorities

The Noise Policy Statement for England gives various levels of effect as detailed within this report.

With the glazing / ventilation specifications achieved within this report, the development can be implemented within the guidelines of the aforementioned documents and ensure a conclusion of **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.

8 CONCLUSIONS

8.1 Measured Background Noise Levels

Continuous background noise measurements were undertaken between the 18th - 23rd April 2024 at the Assessment Position 1. The day time background noise levels between 07:00 and 23:00 was found to be $L_{A90,1 \text{ hour}}$ 35 dB and the daytime background noise level between 07:00 and 19:00 found to be $L_{A90,1 \text{ hour}}$ 38 dB at the assessment position. This background noise level has been assessed during daytime hours only as the courts will not operate at night. Furthermore, they are not expected to operate past 19:00 hrs.

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8.4 Assessment

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8.5 Conclusions

The operation of the proposed two Padel Courts has been assessed to establish if these will be compliant with the Sports England Criteria.

8.6 NPPF 2023

National Planning Policy Framework 2023 suggests that planning permission should be granted unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in the framework taken as a whole, or specific policies in the framework indicate the application should be restricted.

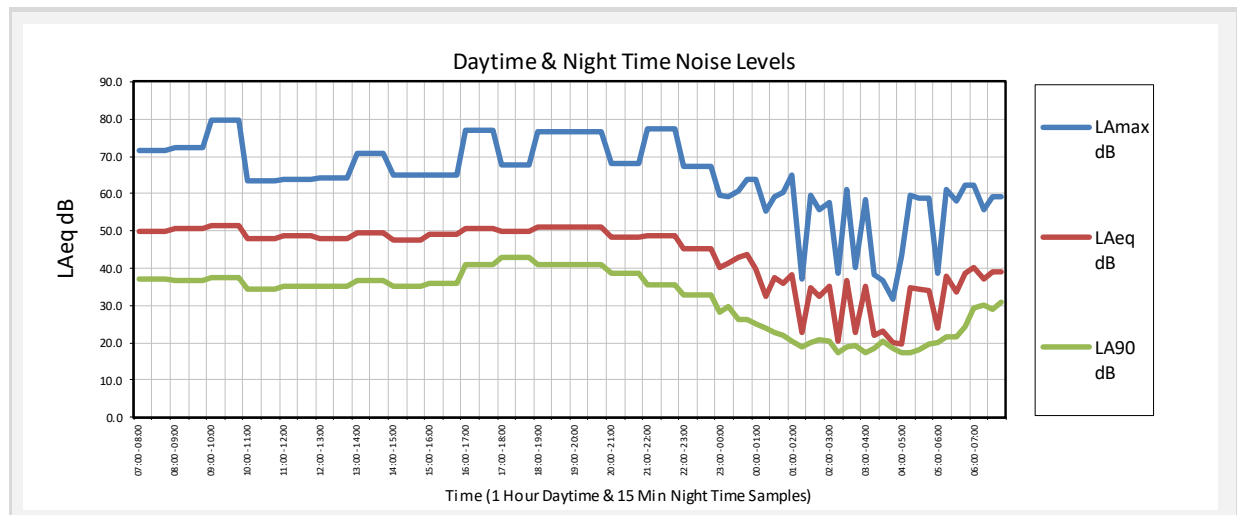
9 APPENDIX A – RESULTS

9.1 18th – 19th April 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	49.1	79.7	35.0	54.3	50.5	47.2	45.0	46.0	40.1	32.1	25.7	18.8
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	37.2	64.8	20.0	40.6	34.4	32.3	32.7	34.6	28.7	18.7	12.4	3.9

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	49.7	48.0	37.2	53.4	48.3	47.1	45.8	46.7	41.3	30.8	22.6	6.9
08:00 - 09:00	50.7	72.5	36.6	54.1	48.1	46.3	46.1	48.1	42.4	32.4	24.2	8.0
09:00 - 10:00	51.2	79.7	37.6	54.5	51.3	50.0	47.3	48.4	41.8	32.6	22.9	20.8
10:00 - 11:00	47.9	63.6	34.5	51.4	44.0	43.5	43.5	45.4	38.9	28.3	20.3	20.5
11:00 - 12:00	48.6	64.0	35.2	54.1	48.5	45.8	44.5	45.7	39.7	30.0	21.4	19.3
12:00 - 13:00	48.0	64.3	35.1	52.4	48.8	44.4	43.6	45.3	39.0	28.9	21.5	21.4
13:00 - 14:00	49.5	70.8	36.9	56.8	52.7	48.9	44.8	46.3	40.3	30.3	21.8	19.1
14:00 - 15:00	47.6	65.0	35.1	53.7	46.3	44.2	43.2	44.9	38.9	28.9	20.5	18.7
15:00 - 16:00	48.9	65.1	35.8	54.6	51.7	47.9	44.6	45.8	39.9	29.5	21.0	15.2
16:00 - 17:00	50.6	77.0	40.9	54.2	51.5	49.1	47.4	46.8	41.1	36.4	31.9	23.1
17:00 - 18:00	50.1	67.8	42.7	55.3	53.1	49.4	45.3	46.2	41.2	36.8	31.5	16.7
18:00 - 19:00	51.1	76.6	41.1	58.5	56.4	51.4	46.2	47.3	41.9	36.1	30.0	24.7
19:00 - 20:00	48.5	67.9	38.7	55.1	48.3	45.0	43.6	45.8	39.8	31.4	24.9	10.3
20:00 - 21:00	48.8	77.2	35.6	50.9	47.9	44.6	46.5	45.7	39.2	28.8	21.0	7.8
21:00 - 22:00	45.2	67.2	32.9	50.4	45.8	42.4	40.8	42.4	36.7	26.6	17.8	7.9
22:00 - 23:00	42.3	63.7	29.3	49.0	42.3	37.7	37.5	39.9	33.5	22.8	14.8	4.8

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	40.1	59.4	28.1	42.8	35.1	34.6	35.4	37.7	32.0	21.0	13.0	5.1
23:15 - 23:30	41.2	59.2	29.8	46.6	37.0	37.0	36.4	38.6	33.2	20.1	11.3	5.7
23:30 - 23:45	42.7	60.7	26.4	45.3	37.6	37.6	37.7	40.7	33.8	20.3	10.4	3.6
23:45 - 00:00	43.7	63.7	26.1	46.5	39.4	37.7	39.3	41.3	35.0	25.3	16.2	4.5
00:00 - 00:15	39.9	63.7	25.2	47.3	37.6	34.6	34.3	37.4	31.7	24.6	17.2	7.7
00:15 - 00:30	32.3	55.2	23.9	36.8	31.9	30.2	28.1	30.2	21.2	11.2	8.1	3.5
00:30 - 00:45	37.4	59.0	22.8	37.8	33.6	33.2	32.4	35.2	28.5	15.3	8.1	3.4
00:45 - 01:00	36.0	60.5	21.9	43.5	32.0	30.0	31.0	33.7	27.5	15.7	9.5	3.7
01:00 - 01:15	38.3	64.8	20.3	36.3	31.8	30.3	31.5	36.4	29.0	25.0	10.8	3.4
01:15 - 01:30	22.7	37.1	19.0	35.5	27.2	23.4	21.8	17.3	9.7	8.1	7.0	3.4
01:30 - 01:45	35.0	59.7	20.2	40.4	28.9	28.0	28.8	32.7	27.0	14.7	8.7	3.6
01:45 - 02:00	32.5	55.5	21.0	41.6	29.8	26.8	28.1	29.7	24.8	11.9	7.4	3.4
02:00 - 02:15	35.2	57.8	20.4	36.6	32.5	30.1	30.1	32.4	27.9	16.6	8.9	3.5
02:15 - 02:30	20.5	38.7	17.4	32.8	25.6	21.0	16.8	16.1	9.2	8.1	7.5	3.4
02:30 - 02:45	36.9	61.1	19.0	36.2	34.6	29.8	31.1	35.0	28.1	15.7	9.2	3.6
02:45 - 03:00	22.8	40.1	19.2	34.7	28.7	23.0	20.7	18.6	10.1	7.3	7.1	3.4
03:00 - 03:15	35.2	58.3	17.5	35.2	30.8	28.9	29.9	32.2	28.7	17.0	8.9	3.5
03:15 - 03:30	22.0	38.1	18.5	36.5	24.9	19.1	16.5	17.0	12.9	12.8	9.9	4.0
03:30 - 03:45	23.1	36.8	20.6	35.0	25.3	18.8	17.5	17.7	14.6	14.8	11.2	3.8
03:45 - 04:00	20.2	31.6	18.5	33.7	23.4	17.3	14.8	14.4	11.6	11.8	9.1	3.4
04:00 - 04:15	19.6	43.4	17.2	31.9	22.4	16.1	15.2	16.0	9.6	9.1	7.8	3.4
04:15 - 04:30	34.6	59.5	17.2	36.0	27.1	26.1	28.1	32.4	27.3	13.8	7.6	3.4
04:30 - 04:45	34.4	58.9	18.3	38.8	32.8	28.2	28.2	31.8	27.3	15.2	8.2	3.4
04:45 - 05:00	34.0	58.7	19.8	33.4	31.9	29.4	28.4	31.7	25.6	17.9	10.4	3.7
05:00 - 05:15	23.9	38.7	20.1	32.3	26.7	20.2	17.2	18.8	15.2	14.7	13.7	3.7
05:15 - 05:30	38.0	61.2	21.7	38.2	33.2	33.0	32.1	35.7	30.3	17.7	10.4	3.5
05:30 - 05:45	33.5	57.9	21.8	39.2	36.6	28.4	28.6	30.4	26.0	16.6	13.4	3.3
05:45 - 06:00	38.6	62.4	24.3	35.9	31.9	30.9	33.2	36.4	31.0	18.1	10.2	3.5
06:00 - 06:15	40.4	62.1	29.4	40.4	36.2	34.8	36.6	37.6	32.5	20.3	14.3	3.5
06:15 - 06:30	37.0	55.8	30.1	38.6	39.0	36.2	38.2	29.5	24.8	16.5	14.2	3.4
06:30 - 06:45	39.0	59.2	29.1	40.0	37.6	35.1	35.9	36.0	29.5	22.8	21.1	3.6
06:45 - 07:00	38.9	59.1	30.8	41.7	41.1	37.6	35.2	36.0	29.0	18.5	12.0	3.7

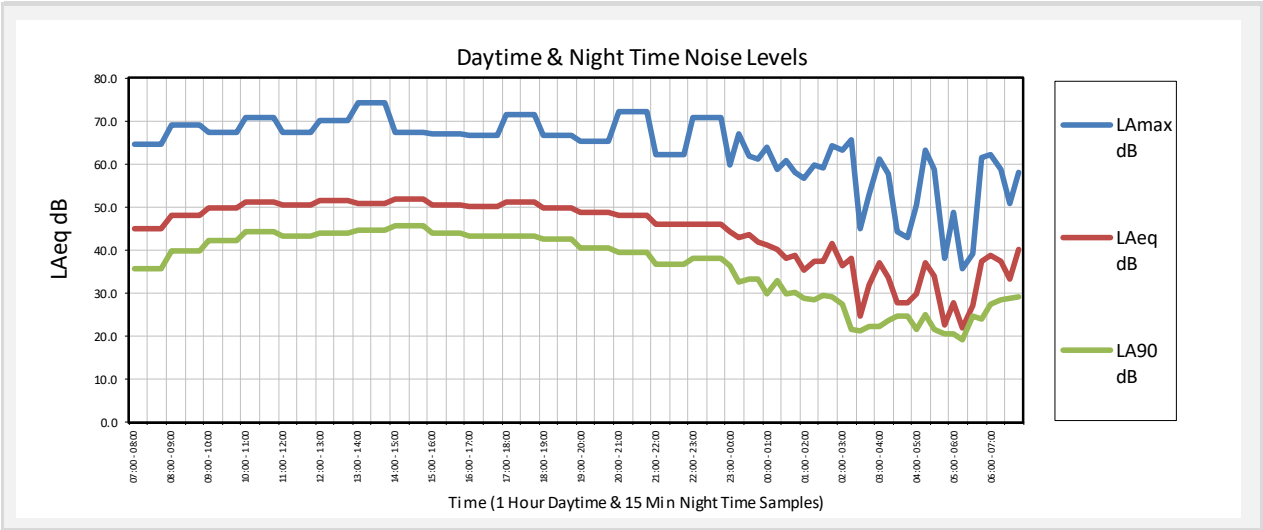


9.2 19th- 20th April 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	49.8	74.3	43.0	57.3	51.7	49.0	45.1	46.1	41.0	36.3	31.0	18.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	38.3	66.9	29.0	45.1	40.7	34.6	33.3	35.2	29.5	23.9	18.6	6.0

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	45.0	64.5	35.7	48.9	46.2	43.3	40.2	42.0	36.4	27.4	21.2	8.7
08:00 - 09:00	48.2	69.1	39.8	52.9	49.6	46.1	43.4	45.0	39.5	33.5	28.1	15.3
09:00 - 10:00	50.0	67.4	42.4	54.3	53.6	48.3	44.7	46.3	41.4	35.9	30.7	25.9
10:00 - 11:00	51.3	70.8	44.5	56.9	54.3	51.1	46.7	47.2	42.3	37.9	32.7	22.0
11:00 - 12:00	50.5	67.5	43.3	56.2	52.0	49.5	45.8	46.9	41.7	36.8	31.5	18.8
12:00 - 13:00	51.6	70.1	43.9	58.3	53.3	50.2	46.8	48.1	42.9	37.7	32.4	18.9
13:00 - 14:00	51.0	74.3	44.5	58.6	52.8	51.3	46.0	46.9	42.2	38.4	33.2	20.5
14:00 - 15:00	52.0	67.3	45.5	59.7	54.3	52.1	47.4	47.4	43.3	40.0	34.8	20.7
15:00 - 16:00	50.5	66.9	44.0	59.3	52.7	50.4	45.8	46.3	41.5	37.5	32.4	17.9
16:00 - 17:00	50.0	66.7	43.3	57.6	51.9	48.9	44.9	46.2	41.4	37.6	32.1	17.5
17:00 - 18:00	51.3	71.6	43.1	58.2	52.5	50.3	46.4	47.7	42.4	37.5	32.1	17.4
18:00 - 19:00	49.9	66.8	42.7	58.5	51.3	48.3	45.4	46.2	41.1	36.3	31.1	16.4
19:00 - 20:00	48.8	65.3	40.5	55.1	48.4	45.2	44.0	46.0	39.9	33.0	27.4	13.0
20:00 - 21:00	48.3	72.3	39.5	58.5	48.6	46.2	44.1	45.1	38.9	32.0	26.4	11.9
21:00 - 22:00	45.9	62.3	36.7	55.9	46.3	42.7	40.7	43.0	37.1	30.2	24.6	10.5
22:00 - 23:00	46.0	70.7	38.0	58.3	47.5	47.8	41.3	41.6	36.2	30.4	25.0	10.5

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	44.4	59.9	36.5	56.8	43.0	41.7	39.2	41.6	35.2	27.5	21.9	7.9
23:15 - 23:30	42.8	66.9	32.7	51.3	52.9	40.4	36.9	38.8	33.3	27.1	21.7	7.8
23:30 - 23:45	43.7	62.0	33.2	47.0	43.6	40.3	38.4	40.8	35.2	29.2	23.9	9.5
23:45 - 00:00	41.8	61.1	33.2	46.3	41.2	37.2	36.7	38.6	33.1	29.5	24.4	9.9
00:00 - 00:15	41.1	63.8	30.0	42.5	38.6	37.4	36.2	38.8	31.6	24.3	18.8	6.1
00:15 - 00:30	40.0	58.7	32.9	44.9	41.9	37.1	34.5	36.4	31.4	28.2	23.4	9.4
00:30 - 00:45	38.1	61.0	29.8	43.1	40.2	34.9	32.5	34.9	29.4	25.1	20.0	6.9
00:45 - 01:00	38.7	58.2	30.3	43.5	39.3	34.7	33.6	35.3	30.5	26.0	20.9	7.6
01:00 - 01:15	35.3	56.6	28.8	41.3	37.6	31.9	29.5	31.8	26.9	23.7	18.7	6.2
01:15 - 01:30	37.6	59.9	28.7	43.3	37.6	33.1	32.4	34.2	29.8	24.7	19.1	6.3
01:30 - 01:45	37.4	59.3	29.6	43.8	37.5	33.7	32.6	34.7	27.9	23.7	18.5	6.4
01:45 - 02:00	41.6	64.4	29.3	45.1	42.6	38.0	35.2	38.9	33.4	27.1	21.9	8.2
02:00 - 02:15	36.6	63.3	27.5	44.0	38.0	32.5	31.1	31.8	28.3	27.8	19.2	6.3
02:15 - 02:30	38.1	65.7	21.7	41.4	35.2	32.9	32.2	35.9	29.7	19.2	12.7	4.3
02:30 - 02:45	24.7	44.9	21.4	36.5	30.9	23.5	19.7	19.1	15.3	15.0	11.2	4.0
02:45 - 03:00	32.1	53.1	22.3	37.3	35.3	31.9	27.3	28.0	23.8	18.6	13.5	4.3
03:00 - 03:15	37.3	61.1	22.3	37.0	33.0	30.1	30.8	34.9	29.3	22.3	13.6	4.4
03:15 - 03:30	33.8	57.6	23.6	37.2	31.8	27.7	28.0	30.8	25.7	20.9	15.0	4.7
03:30 - 03:45	28.0	44.3	24.7	38.1	33.3	26.3	21.1	20.9	19.7	20.0	15.2	4.9
03:45 - 04:00	27.8	42.9	24.7	37.2	32.2	26.2	20.9	20.7	19.5	19.9	15.4	4.9
04:00 - 04:15	29.8	50.5	21.7	37.1	27.5	25.6	24.5	26.7	21.8	16.0	11.6	4.0
04:15 - 04:30	37.0	63.2	24.9	42.6	34.7	31.5	33.1	34.2	27.7	21.8	15.4	5.0
04:30 - 04:45	34.0	58.9	21.6	34.7	29.1	27.2	27.9	31.4	26.7	16.3	10.8	4.2
04:45 - 05:00	22.8	38.2	20.7	33.1	27.7	21.5	16.4	15.8	14.5	14.7	11.0	4.2
05:00 - 05:15	27.9	48.8	20.6	33.5	30.8	29.7	28.5	20.4	14.0	13.0	9.6	4.0
05:15 - 05:30	22.1	35.8	19.3	32.7	26.0	19.4	16.5	15.7	12.0	13.0	13.5	4.0
05:30 - 05:45	27.2	39.3	24.8	31.9	24.9	19.1	21.4	20.6	20.0	19.2	16.4	4.2
05:45 - 06:00	37.3	61.4	24.1	36.6	30.8	31.3	31.1	35.3	28.6	19.5	15.6	4.0
06:00 - 06:15	39.0	62.1	27.5	40.5	36.3	33.3	33.7	36.3	31.2	20.1	15.3	3.7
06:15 - 06:30	37.5	58.7	28.4	37.1	33.9	30.1	37.6	33.2	27.0	17.1	10.4	3.5
06:30 - 06:45	33.3	50.8	28.8	39.4	37.5	33.5	33.5	25.3	23.0	16.2	13.4	3.4
06:45 - 07:00	40.1	58.1	29.4	41.6	39.0	35.9	35.6	37.2	31.6	22.9	20.0	3.7

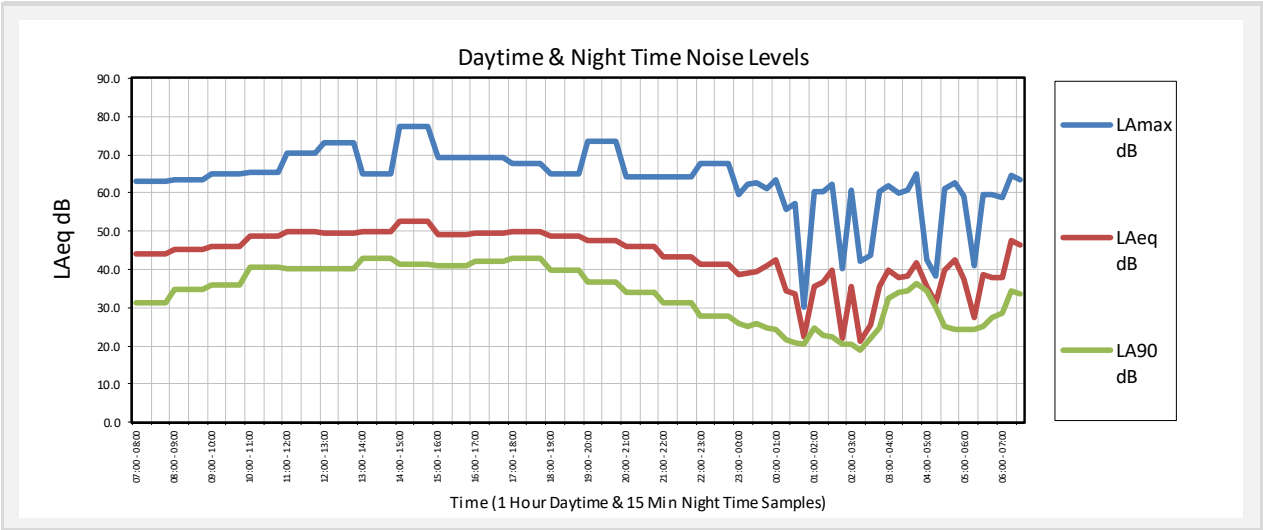


9.3 20th – 21st April 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	48.4	77.2	40.0	53.3	52.3	47.2	43.8	44.8	39.6	33.2	27.6	14.9
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	40.3	64.9	25.0	42.1	36.3	34.9	34.5	37.6	32.6	24.9	18.4	6.0

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	44.1	63.1	31.2	46.0	41.6	38.8	38.8	41.4	36.5	26.0	17.5	4.8
08:00 - 09:00	45.2	63.6	34.8	48.2	44.0	40.0	39.7	42.7	37.1	27.4	20.5	7.0
09:00 - 10:00	46.1	64.9	35.9	51.6	46.8	42.2	41.2	43.2	38.0	30.1	23.5	9.2
10:00 - 11:00	48.8	65.4	40.5	52.7	49.8	47.2	43.3	45.4	41.0	34.3	28.9	16.1
11:00 - 12:00	49.7	70.4	40.3	54.1	50.9	47.3	44.8	46.7	41.1	33.9	28.1	18.0
12:00 - 13:00	49.6	73.0	40.1	53.7	48.9	46.8	45.0	46.5	41.4	33.9	27.7	15.4
13:00 - 14:00	49.9	65.1	42.7	55.4	52.4	49.1	45.0	46.0	41.0	36.4	31.3	19.8
14:00 - 15:00	52.4	77.2	41.3	57.1	61.0	53.7	49.0	46.7	41.7	35.6	29.8	18.8
15:00 - 16:00	49.3	69.2	40.9	53.6	53.5	48.9	45.1	45.5	39.8	34.5	29.0	14.8
16:00 - 17:00	49.3	69.1	42.3	54.3	51.8	48.5	44.4	45.4	40.6	36.5	31.1	16.6
17:00 - 18:00	50.1	67.8	42.7	55.3	53.1	49.4	45.3	46.2	41.2	36.9	31.6	16.7
18:00 - 19:00	48.7	65.1	39.7	55.5	50.7	46.8	44.0	45.6	39.6	32.9	27.5	13.3
19:00 - 20:00	47.6	73.5	36.8	52.3	51.1	44.1	42.7	44.5	39.0	30.7	24.1	10.2
20:00 - 21:00	46.0	64.1	34.0	51.9	44.1	41.3	41.3	43.6	37.2	26.7	19.0	6.4
21:00 - 22:00	43.4	64.3	31.2	48.3	42.5	39.4	38.6	40.9	34.9	24.7	15.5	5.0
22:00 - 23:00	41.4	67.7	28.0	44.7	40.4	37.9	36.0	38.8	33.0	21.7	12.6	4.0

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	38.5	59.7	25.9	43.4	37.7	34.9	33.1	36.1	30.1	17.7	9.1	3.5
23:15 - 23:30	38.8	62.2	25.0	44.0	35.8	34.7	35.2	36.4	29.0	19.5	10.1	4.7
23:30 - 23:45	39.3	62.7	25.8	41.4	34.1	33.3	35.0	36.9	30.7	20.6	11.9	3.7
23:45 - 00:00	41.0	61.3	24.9	45.8	36.2	35.8	35.7	38.9	32.2	20.3	11.6	3.8
00:00 - 00:15	42.5	63.3	24.4	44.2	40.6	43.3	38.5	38.8	33.7	24.8	15.8	5.3
00:15 - 00:30	34.3	55.7	21.6	42.9	31.7	29.8	29.6	31.5	26.1	17.1	10.9	3.6
00:30 - 00:45	33.5	57.2	20.8	36.8	28.7	28.3	27.7	31.4	24.6	14.5	8.7	3.4
00:45 - 01:00	22.4	30.3	20.3	32.3	25.1	21.2	18.8	19.5	9.8	7.8	7.3	3.4
01:00 - 01:15	35.7	60.5	24.6	32.2	26.2	28.9	33.1	33.4	24.9	19.2	9.4	3.4
01:15 - 01:30	36.9	60.4	22.6	36.6	29.7	29.7	30.8	35.0	28.7	16.1	8.6	3.5
01:30 - 01:45	39.9	62.2	22.4	40.9	34.1	34.1	35.4	37.4	31.7	17.1	8.8	4.2
01:45 - 02:00	21.9	40.2	20.4	32.9	25.1	20.9	17.1	16.9	13.0	12.3	8.9	3.5
02:00 - 02:15	35.6	60.9	20.6	34.9	32.5	28.1	29.1	33.0	28.5	16.4	8.9	3.8
02:15 - 02:30	21.0	42.0	18.9	32.4	25.2	21.2	17.5	15.5	10.7	10.8	8.4	4.6
02:30 - 02:45	25.3	43.6	22.0	36.2	27.9	22.8	20.8	19.9	16.3	16.1	11.8	5.2
02:45 - 03:00	35.7	60.2	24.8	37.1	29.7	27.6	28.7	33.0	28.8	20.4	14.3	5.8
03:00 - 03:15	39.9	61.8	32.5	40.5	37.3	32.3	32.4	37.0	32.5	27.7	21.4	8.9
03:15 - 03:30	37.9	60.0	34.1	41.5	28.1	27.7	29.8	34.0	31.1	28.7	22.4	9.4
03:30 - 03:45	38.3	60.7	34.3	40.5	33.2	30.7	30.8	34.3	31.7	28.6	22.1	8.8
03:45 - 04:00	41.6	64.9	36.2	39.2	33.5	29.9	32.5	38.3	35.1	31.0	24.5	10.6
04:00 - 04:15	35.5	42.6	34.3	35.0	27.1	24.4	25.2	28.2	29.8	28.7	22.2	8.9
04:15 - 04:30	31.4	38.4	30.1	34.6	26.9	22.5	22.7	24.5	25.5	24.2	17.7	5.6
04:30 - 04:45	39.9	61.1	25.1	40.7	36.5	31.9	32.6	37.2	32.7	24.4	24.3	5.0
04:45 - 05:00	42.4	62.7	24.4	46.0	36.1	35.7	36.0	39.5	35.7	25.3	16.5	4.8
05:00 - 05:15	37.4	59.0	24.3	40.3	34.4	31.3	31.0	34.5	30.6	19.5	11.6	3.8
05:15 - 05:30	27.5	41.1	24.2	37.0	33.9	30.6	25.2	21.6	11.7	10.3	11.1	3.3
05:30 - 05:45	38.7	59.7	25.3	42.0	36.7	31.8	32.1	36.4	31.4	19.3	13.1	3.8
05:45 - 06:00	37.7	59.5	27.2	39.0	35.4	33.5	31.4	35.4	29.1	19.0	14.4	3.7
06:00 - 06:15	38.1	58.6	28.8	40.2	38.0	34.6	32.7	35.5	29.9	19.7	15.9	3.8
06:15 - 06:30	47.6	64.7	34.2	47.0	44.2	41.3	41.1	45.5	39.7	28.8	20.8	6.6
06:30 - 06:45	46.3	63.5	33.5	46.0	39.1	39.4	40.9	43.8	38.6	28.2	20.2	7.0
06:45 - 07:00	47.8	63.5	37.7	49.4	44.1	41.9	42.2	44.9	40.4	33.3	25.5	10.3

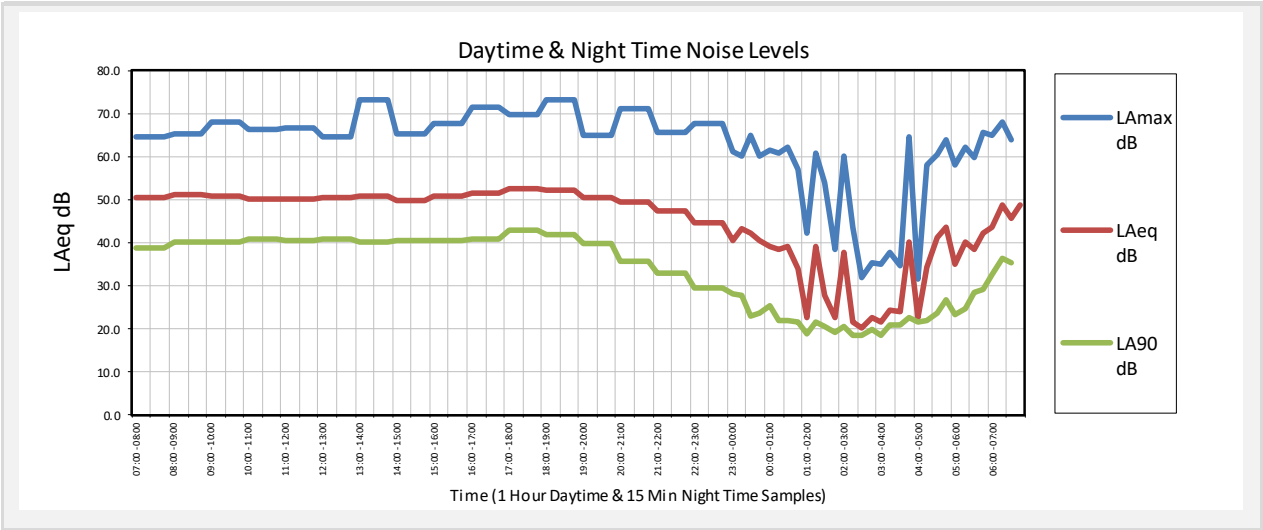


9.4 21st – 22nd April 2024

NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	50.6	73.4	41.0	54.1	49.5	46.1	44.9	48.1	42.4	33.4	25.8	12.4
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	41.0	69.7	22.0	42.7	38.8	37.5	36.1	38.5	32.8	22.6	14.8	3.6

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	50.6	64.8	38.8	51.4	45.4	44.0	44.6	47.6	43.3	37.2	29.4	13.0
08:00 - 09:00	51.1	65.5	40.2	54.5	49.8	46.2	45.3	48.5	43.3	34.0	26.0	12.2
09:00 - 10:00	51.0	68.1	40.3	54.4	49.9	46.2	45.2	48.6	42.9	32.8	24.5	16.9
10:00 - 11:00	50.2	66.3	40.9	54.4	49.4	46.0	44.7	47.7	41.9	33.1	26.1	13.6
11:00 - 12:00	50.3	66.7	40.6	54.3	49.0	46.3	44.8	47.8	41.9	33.4	26.5	12.4
12:00 - 13:00	50.5	64.7	40.7	54.4	49.7	46.3	44.5	48.0	42.5	33.9	27.2	13.0
13:00 - 14:00	50.8	73.4	40.1	54.6	48.6	46.4	44.9	48.4	42.6	33.5	26.4	11.9
14:00 - 15:00	49.9	65.3	40.6	53.5	49.3	45.7	44.2	47.4	41.7	33.2	26.5	12.3
15:00 - 16:00	51.0	67.9	40.6	54.4	49.3	45.6	44.9	48.7	42.8	33.8	26.9	12.6
16:00 - 17:00	51.5	71.6	40.7	55.4	50.5	48.3	46.0	48.8	43.4	34.6	26.9	13.1
17:00 - 18:00	52.5	69.9	42.8	56.9	52.8	47.9	46.9	50.0	44.5	34.8	26.5	12.7
18:00 - 19:00	52.2	73.1	41.9	55.4	51.2	48.9	46.8	49.7	43.9	34.0	26.2	12.7
19:00 - 20:00	50.7	65.1	39.8	52.5	47.4	45.7	45.0	48.4	42.4	32.4	24.9	10.6
20:00 - 21:00	49.6	71.3	35.7	54.4	52.4	46.1	44.5	47.1	41.1	29.2	19.5	6.1
21:00 - 22:00	47.3	65.8	33.0	50.5	42.9	41.5	41.1	45.2	39.3	26.8	16.6	5.5
22:00 - 23:00	44.7	67.9	29.6	46.0	40.4	39.7	38.9	42.5	36.6	24.8	15.7	5.0

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	40.6	61.1	28.3	46.8	41.9	40.1	34.3	37.9	32.0	18.5	8.7	3.5
23:15 - 23:30	43.3	60.2	27.7	47.1	40.8	37.8	36.9	41.3	34.7	21.6	11.4	3.7
23:30 - 23:45	42.4	65.1	23.1	40.4	33.9	34.6	36.9	40.2	34.1	23.9	12.8	3.6
23:45 - 00:00	40.5	60.2	23.6	45.3	39.5	35.2	34.9	38.4	31.6	19.8	11.2	3.7
00:00 - 00:15	39.0	61.6	25.4	43.2	37.0	33.8	32.9	36.7	31.0	20.0	11.2	3.8
00:15 - 00:30	38.6	60.7	22.0	41.9	32.3	31.1	31.7	36.6	30.7	17.7	9.5	3.5
00:30 - 00:45	39.1	62.2	22.0	41.4	33.1	32.1	32.3	36.8	31.6	18.7	9.7	3.4
00:45 - 01:00	34.2	57.1	21.8	37.5	32.0	30.4	28.0	31.7	26.1	13.9	8.0	3.2
01:00 - 01:15	22.6	42.4	18.8	34.2	27.8	22.8	18.3	18.7	12.1	7.3	7.0	3.2
01:15 - 01:30	39.3	61.0	21.8	39.1	33.5	32.9	32.9	37.5	30.9	17.4	9.2	3.3
01:30 - 01:45	27.8	53.9	20.5	34.0	27.7	22.3	19.7	22.0	16.7	23.0	9.2	3.4
01:45 - 02:00	22.6	38.4	19.3	34.1	25.2	21.2	20.0	19.2	11.2	7.0	7.0	3.2
02:00 - 02:15	37.8	60.0	20.5	39.8	30.8	29.3	31.1	34.0	27.9	31.1	14.1	3.3
02:15 - 02:30	21.6	43.5	18.4	33.7	24.0	20.2	16.5	15.5	12.4	13.9	8.6	3.2
02:30 - 02:45	20.3	31.8	18.7	33.3	23.2	19.7	17.0	15.9	9.9	8.9	7.0	3.2
02:45 - 03:00	22.7	35.5	19.9	33.6	23.9	21.2	19.0	19.1	13.2	8.6	7.0	3.2
03:00 - 03:15	21.7	35.0	18.6	34.1	24.1	21.1	18.5	18.1	11.0	6.9	7.0	3.2
03:15 - 03:30	24.3	37.7	20.8	33.7	24.9	21.4	20.7	21.9	12.9	7.1	7.0	3.2
03:30 - 03:45	24.0	34.7	20.8	34.5	29.1	24.9	20.6	20.1	12.4	7.9	7.0	3.2
03:45 - 04:00	40.4	64.7	22.8	36.0	32.3	31.0	33.4	38.6	32.5	18.4	8.8	3.3
04:00 - 04:15	22.7	31.6	21.5	32.2	23.5	21.6	20.6	19.1	11.7	7.1	7.0	3.2
04:15 - 04:30	34.2	58.2	22.1	33.1	26.3	26.6	27.9	31.9	27.2	14.0	7.5	3.2
04:30 - 04:45	41.3	60.4	23.6	42.1	39.6	34.2	34.4	38.8	34.6	22.2	10.3	3.3
04:45 - 05:00	43.5	63.8	26.8	44.4	35.4	35.6	36.7	41.0	36.7	24.4	12.5	3.6
05:00 - 05:15	35.0	58.1	23.4	40.7	35.1	32.2	29.8	31.0	28.6	17.8	9.2	3.4
05:15 - 05:30	40.1	62.1	24.7	42.3	32.7	32.0	33.2	37.9	33.0	20.1	15.9	3.4
05:30 - 05:45	38.4	59.9	28.6	43.1	41.2	38.2	33.5	34.9	30.2	18.0	18.5	3.3
05:45 - 06:00	42.2	65.7	29.2	43.8	38.7	39.4	37.0	39.5	34.0	24.5	19.4	4.0
06:00 - 06:15	43.6	65.0	32.7	41.6	39.0	38.1	39.4	41.1	34.8	24.4	19.2	3.8
06:15 - 06:30	48.9	68.1	36.3	46.8	42.6	41.5	41.9	46.9	41.2	28.6	21.6	4.3
06:30 - 06:45	45.8	63.9	35.2	46.0	42.2	41.3	42.5	42.9	37.2	26.6	22.8	5.9
06:45 - 07:00	48.9	69.7	37.6	51.2	50.1	49.3	46.3	45.2	39.4	29.3	21.0	5.6

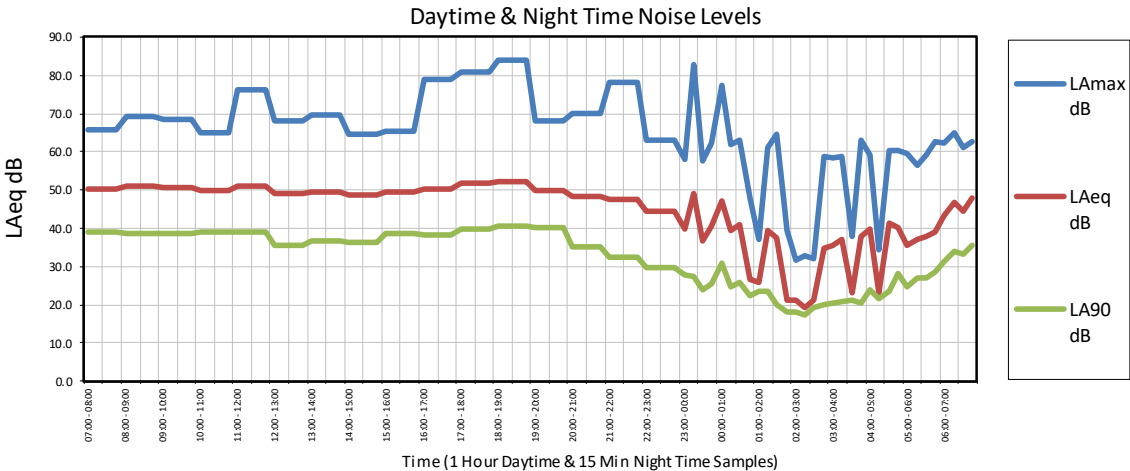


9.5 22nd - 23rd April 2024

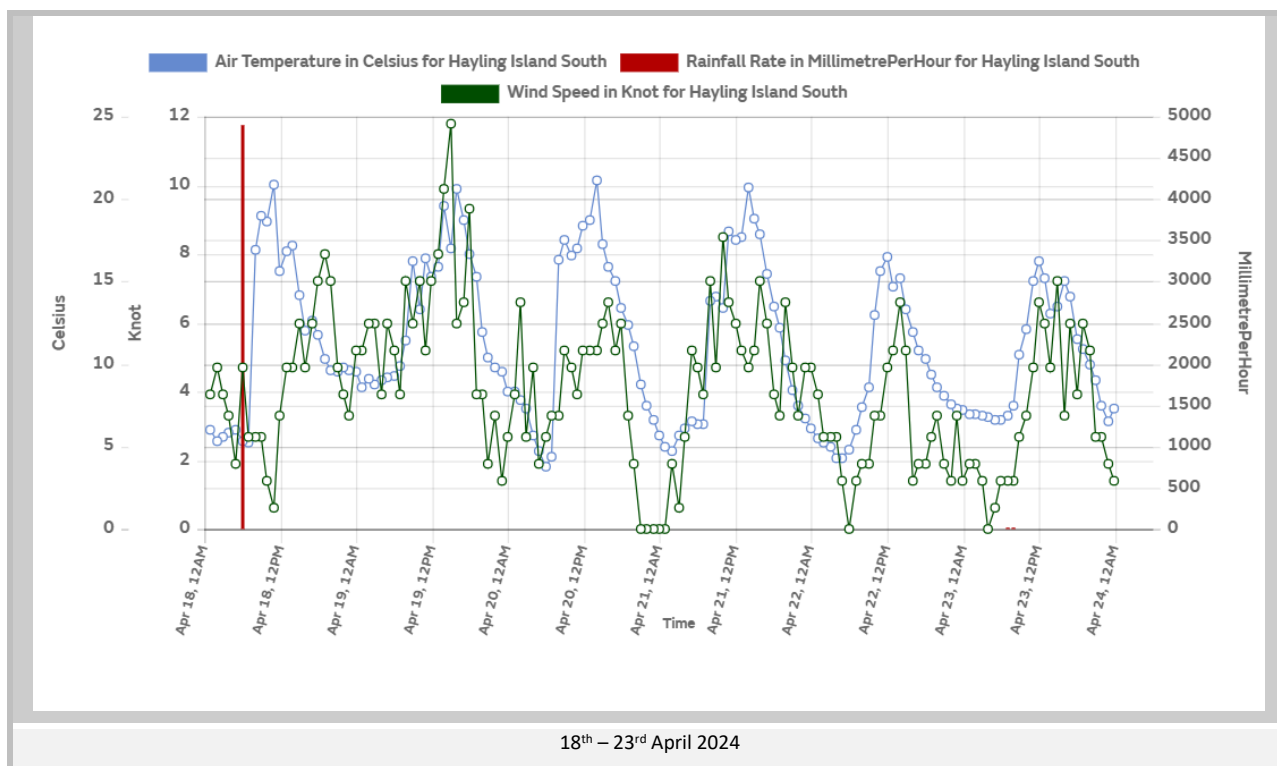
NOISE LEVEL SUMMARY ASSESSMENT				Octave Band Centre Frequency (Hz)								
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0k	2.0k	4.0k	8.0k	16.0k
DAYTIME 07:00 - 23:00 LAeq 16 HOUR & Corresponding LAmaz 16 HOUR	50.0	84.0	39.0	54.5	49.1	47.2	45.5	47.1	41.7	31.8	23.2	18.4
NIGHT TIME 23:00 - 07:00 LAeq 8 HOUR & Corresponding LAmaz 8 HOUR	41.3	82.6	24.0	43.6	36.5	35.1	35.9	38.8	32.6	27.8	15.0	4.1

DAYTIME NOISE LEVELS 07:00 - 23:00 1 HOUR SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
07:00 - 08:00	50.4	65.7	39.0	52.6	47.3	44.5	44.8	48.0	42.5	31.1	21.8	6.7
08:00 - 09:00	51.2	69.4	38.6	54.5	48.3	45.8	45.7	48.7	43.2	32.2	21.5	7.0
09:00 - 10:00	50.5	68.3	38.8	54.5	48.0	45.7	45.4	48.0	42.2	31.7	21.9	25.0
10:00 - 11:00	50.1	64.9	39.0	54.7	48.5	45.9	45.0	47.5	41.8	31.2	22.9	23.2
11:00 - 12:00	51.1	76.4	39.1	54.6	51.8	48.9	46.6	47.7	43.1	34.5	24.4	21.9
12:00 - 13:00	49.0	67.9	35.5	54.7	49.8	46.1	44.4	46.2	40.2	30.1	21.9	18.8
13:00 - 14:00	49.6	69.7	36.8	55.7	50.4	46.4	44.9	46.8	41.0	30.8	22.7	22.4
14:00 - 15:00	48.9	64.6	36.3	54.1	46.1	44.8	44.3	46.4	40.0	29.3	20.3	13.4
15:00 - 16:00	49.3	65.2	38.5	53.9	48.8	47.0	44.8	46.6	40.5	31.4	22.7	16.8
16:00 - 17:00	50.4	78.8	38.1	55.4	48.1	46.7	46.1	47.4	42.5	31.7	22.8	13.0
17:00 - 18:00	51.9	80.8	39.9	56.2	49.0	46.3	48.8	48.6	44.3	34.8	26.3	12.8
18:00 - 19:00	52.4	84.0	40.5	58.2	54.2	53.8	48.9	48.6	42.4	32.5	24.4	11.2
19:00 - 20:00	49.8	68.2	40.2	53.7	49.5	46.2	45.3	47.0	41.3	32.0	24.8	9.7
20:00 - 21:00	48.5	70.2	35.2	53.0	46.8	43.9	43.8	45.8	40.2	30.5	21.5	9.5
21:00 - 22:00	47.7	78.0	32.3	49.7	44.8	46.9	42.7	44.5	39.3	32.5	26.2	12.3
22:00 - 23:00	44.3	63.1	29.9	47.8	39.5	39.3	39.0	41.9	36.1	23.3	13.1	8.3

NIGHT TIME NOISE LEVELS 23:00 - 07:00 15 MINUTE SAMPLES												
Date / Time	LAeq	LAmaz	LA90	63	125	250	500	1.0 k	2.0 k	4.0 k	8.0 k	16.0 k
23:00 - 23:15	39.7	58.2	28.0	49.8	39.8	36.3	35.6	36.7	31.3	22.1	13.8	4.0
23:15 - 23:30	49.1	82.6	27.2	47.7	39.9	39.0	38.9	47.7	39.2	24.0	13.4	4.0
23:30 - 23:45	36.9	57.7	23.9	41.4	33.2	33.0	32.4	34.4	28.4	16.9	9.3	3.6
23:45 - 00:00	40.7	62.3	25.3	40.0	36.3	34.6	35.8	38.5	32.2	21.4	11.3	9.0
00:00 - 00:15	47.2	77.2	30.7	45.9	39.0	38.5	39.1	42.2	36.6	42.0	26.5	8.7
00:15 - 00:30	39.5	62.0	24.5	41.4	32.4	32.7	33.4	37.3	31.8	18.0	9.0	3.4
00:30 - 00:45	41.1	63.1	25.7	40.0	35.2	35.2	35.6	39.0	32.6	20.0	10.5	3.5
00:45 - 01:00	26.7	47.8	22.5	32.7	27.1	23.9	24.1	23.3	16.6	10.5	7.2	3.2
01:00 - 01:15	25.8	37.0	23.5	34.3	26.3	25.1	22.6	22.9	14.1	7.2	7.0	3.3
01:15 - 01:30	39.4	61.3	23.6	36.4	31.0	33.4	33.3	37.5	31.2	17.9	9.5	3.3
01:30 - 01:45	37.7	64.4	20.2	34.8	29.6	29.5	30.5	35.8	29.9	16.2	8.6	3.3
01:45 - 02:00	21.2	39.5	18.0	30.1	24.6	20.8	17.7	17.8	9.7	8.3	7.0	3.2
02:00 - 02:15	21.0	31.7	18.1	29.7	25.3	22.8	17.7	17.0	8.8	6.8	7.0	3.2
02:15 - 02:30	19.2	32.7	17.5	29.1	23.8	19.3	15.9	15.2	7.9	7.3	7.2	3.2
02:30 - 02:45	21.3	31.9	19.4	30.1	22.8	21.1	18.4	17.9	9.8	6.8	7.0	3.2
02:45 - 03:00	34.9	58.8	20.0	34.1	28.0	28.7	29.1	32.6	27.1	14.1	7.8	3.3
03:00 - 03:15	35.7	58.4	20.3	37.9	29.0	30.9	31.0	33.3	27.7	15.2	8.5	3.3
03:15 - 03:30	36.9	58.9	20.9	35.3	34.3	31.4	32.2	34.5	28.8	17.7	9.6	3.3
03:30 - 03:45	23.0	37.8	21.1	32.4	30.2	22.7	19.3	19.2	11.9	7.2	7.0	3.2
03:45 - 04:00	37.8	63.1	20.3	35.7	36.0	29.7	31.8	35.7	30.2	16.1	8.2	3.2
04:00 - 04:15	40.0	59.3	23.9	44.7	35.1	34.0	34.8	37.4	32.3	19.9	10.8	3.5
04:15 - 04:30	23.0	34.3	21.5	30.7	23.8	21.0	20.3	19.7	12.6	7.1	7.1	3.2
04:30 - 04:45	41.2	60.5	23.5	42.1	37.4	34.6	35.2	38.8	33.9	21.5	10.6	3.4
04:45 - 05:00	40.2	60.5	28.1	43.4	35.2	34.9	35.8	37.3	32.7	20.6	13.6	3.5
05:00 - 05:15	35.5	59.7	24.8	40.7	31.5	29.1	30.7	33.2	27.0	14.4	7.9	3.2
05:15 - 05:30	37.1	56.3	27.0	42.8	37.4	35.2	32.9	33.9	28.6	17.6	9.3	3.3
05:30 - 05:45	37.9	59.3	27.0	44.0	41.0	38.2	32.9	34.3	29.5	18.5	19.1	3.4
05:45 - 06:00	39.1	62.6	28.5	42.5	36.4	34.4	34.7	36.6	30.4	19.8	12.2	3.6
06:00 - 06:15	43.2	62.2	31.3	41.4	38.3	37.8	41.8	39.5	34.4	22.5	15.1	3.7
06:15 - 06:30	46.9	64.8	34.2	48.4	40.7	39.3	42.1	44.6	38.9	26.2	15.8	4.0



10 APPENDIX B – WEATHER CONDITIONS



11 APPENDIX D – BS 4142:2019+A1:2019 INFORMATION

In accordance with BS 4142:2014:A1:2019, section 12, the following information is provided.

11.1 Professional Competence

Acoustic Consultant	Mr Brian Scrivener MIOA
Qualifications	Member of the Institute of Acoustics (MIOA)
Date Certified	June 2003
Time Operating as an active Noise Consultant	Permanently Since June 2003
Professional Status	Noise Consultant

11.2 Site Status

Site Attended By	Mr Brian Scrivener MIOA
Baseline Measurements Conducted by	Mr Brian Scrivener MIOA
Site Source Measurements Conducted By	Mr Brian Scrivener MIOA

11.3 Measurement Information – Location 1

Details & Justification	Measurement position 1 was located at the rear of the existing premises, representative of the Nearest Noise Sensitive Premises
Height from Ground	1.5m
Reflective Surfaces	None (Free Field)
Distance to NSP	2m
Distance to Source	2m
Topographical Change (m)	None
Ground between Source and Receiver	100% Hard surface from kitchen extract louvre to residential flats above
Windshield Information	Norsonic Outdoor Microphone Protection Kit Model No: 1212
Distance from Proposed Source to Receiver	2m
NSP* - Noise Sensitive Premises	

END OF REPORT