



Noise Assessment

Dove Valley Park Plot 3b

Dove Valley Park Ltd

Ednaston Park Painters Lane, Ednaston, Ashbourne, Derbyshire, DE6 3FA

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Basis of Report

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1.0 Introduction

This Noise Impact Assessment has been submitted in support of a full planning application for the following development at Plot 3B, Dove Valley Park, Foston ('the Site'):

"Full planning application for employment development (B2/B8 and ancillary E(g) uses) with associated landscaping, drainage, parking, refuse stores and other infrastructure."

The following work has therefore been included in this Scope.

- A Desktop Noise Impact Assessment of the proposed Plot 3b, undertaken in accordance with BS4142:2014+A1:2019 – 'Methods for rating and assessing industrial and commercial sound'. As the previously assessed plot (Plot 11) is adjacent to the proposed Plot 3b, SLR has presented a cumulative BS4142 assessment with the adjacent Site (Plot 11) assessed in November 2025.
- An assessment of development related traffic undertaken with reference to the Design Manual for Roads and Bridges Volume (DMRB) LA111 Noise and Vibration. Again, this assessment would be completed cumulatively with the adjacent Site assessed in November 2025.

1.1 Report Structure

The report is structured as follows:

- Site and Development Description.
- Consultation and Guidance.
- Baseline Noise Survey Results.
- BS 4142:2014+A1:2019 Discussion.

Whilst reasonable effort has been made to ensure that this report is easy to understand, it is technical in nature; to assist the reader, a glossary of terminology is included in Appendix A.



2.0 Site Description

2.1 Existing Site and Context

The Site is located in part of the Dove Valley Park commercial area, off Park Avenue as shown in Figure 2-1 below. In summary the Site is:

- Bound to the west by commercial premises.
- Bound to the north by commercial premises.
- Bound to the east by a site (known as Plot 11) that has consent for two employment buildings (B2/B8 and ancillary E(g) uses).
- Bound to the south by commercial premises.

The nearby NSRs to the Site are also identified on Figure 2-1 as:

- NSR1 – Rectory Farm on Dark Lane.
- NSR2 – Heath House Farm on Bent Lane.
- NSR3 – Residential Dwelling on Miry Lane.
- NSR4 – Residential Dwelling at The Bungalow.

The Site is located at Derby, DE65 5BT, accessed via the A50 (Foston – Hatton – Hilton Bypass).



Figure 2-1: Site Location



2.2 Planning Application

A Site location plan of the development is shown in the Appendix B.

The description of development is as follows, *“Full planning application for employment development (B2/B8 and ancillary E(g) uses) with associated landscaping, drainage, parking, refuse stores and other infrastructure.”*



3.0 Assessment Standards & Guidance

3.1 On-Site Operational Noise

SLR will assess the noise impact of operations at the Site in accordance with British Standard 4142:2014+A1:2019 *Methods for rating and assessing industrial and commercial sound* (BS4142 herein).

BS4142 provides methods for rating and assessing industrial and commercial sound. The standard is used to rate sound from fixed installations. The standard requires a “Specific Sound Level”, in terms of an L_{Aeq} , is determined either by measurement or calculation at a receptor location. This Specific Sound Level may then be corrected for the character of sound and is then termed the “Rating Level”.

Once the Rating Level has been determined, the background sound level is subtracted from it and the greater the difference, the greater the likelihood of an ‘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. The standard advocates that each site and situation should take the context of the scenario into consideration and that “not all adverse impacts will lead to complaints and not every complaint is proof of an adverse impact”.

The standard provides reference periods over which the assessment should take place which have been reproduced in the following table.

Table 3-1: BS4142 Assessment Periods

Period	Hours	Assessment Period
Typical Daytime	0700 – 2300	1 hour assessment period
Typical Night-time	2300 – 0700	15-minute assessment period

3.2 Off-Site Development Related Traffic Noise

SLR will calculate the impact of any increase in off-site development related traffic noise in accordance with the former Department of Transport and Welsh Office memorandum *Calculation of Road Traffic Noise* (CRTN), published in 1988.

CRTN sets out the UK standard methods and procedures to predict and measure road traffic noise. In the UK, road traffic noise is predicted and measured in terms of a statistical measure, equivalent to the 90th percentile. Termed the L_{A10} , this measure of noise is equivalent to the noise level exceeded for 10% of the measurement period. Most UK legislation that refers to road traffic noise uses this noise index over a 1-hour period, from 0600 hours to 0000 hours.

The impact of development related traffic noise upon existing receptors will be calculated in accordance with CRTN.

The impact of development related traffic noise upon existing receptors in the short-term is detailed in Table 3-2.



Table 3-2: Development Related Traffic – Short-Term Magnitude of Change (Impact)

Magnitude	Noise Change $L_{A10,18hr}$ dB
High	5.0+
Moderate	3.0 – 4.9
Minor	1.0 – 2.9
Negligible	0.1 – 0.9



4.0 Baseline Noise Environment

4.1 Survey Date

To determine baseline sound levels in the vicinity of the proposed development, a long-term unattended noise survey was undertaken at two monitoring positions from Friday 3rd November – Monday 6th November 2023. This data is considered valid for use in this assessment.

4.2 Weather Conditions

Weather Conditions were stable and consistent during the assessment, with average wind speeds not exceeding 2.5 m/s throughout. Temperatures during the survey ranged from 3 °C to 13 °C. There was no rainfall recorded. Full measured weather data can be found in Appendix C.

4.3 Equipment

The noise survey equipment used during the survey is detailed in Table 4-1. All measurement instrumentation was calibrated before and after the measurements. No significant drift in calibration was observed at both monitoring positions. The calibration chain is traceable via the United Kingdom Accreditation Service to National Standards held at the National Physical Laboratory.

Table 4-1: Survey Equipment

Location	Equipment	Serial Number
1	Cirrus CR:171B Class 1 Sound Level Meter	G079816
	Cirrus CR:515 Acoustic Calibrator	81268
2	Cirrus CR:171B Class 1 Sound Level Meter	G400055
	Cirrus CR:515 Acoustic Calibrator	99952



4.4 Survey Locations

Figure 4-1 below shows the approximate red line boundary for the Site, the noise sensitive receptors in blue, and the noise survey monitoring positions in green.

Figure 4-1 Noise Survey Monitoring Positions



Sound levels were measured at two locations, representative of the nearest residential receptors to the Site, as follows:

- MP1 – Representative of Rectory Farm on Dark Lane and The Bungalow.
- MP2 – Representative of Heath House Farm on Bent Lane and residential dwelling on Miry Lane.

At the survey locations the microphone was placed 1.5 m above the local ground level in free-field conditions, i.e. at least 3.5 m from the nearest vertical, reflecting surface. The following noise level indices were recorded:

$L_{Aeq,T}$: The A-weighted equivalent continuous noise level over the measurement period.



L_{A90} : The A-weighted noise level exceeded for 90 % of the measurement period. This parameter is often used to describe background noise.

L_{A10} : The A-weighted noise level exceeded for 10 % of the measurement period. This parameter is often used to describe road traffic noise.

L_{Amax} : The maximum A-weighted noise level during the measurement period.

4.5 Survey Results

A summary of the survey results at each monitoring location are shown in Tables 4-2 and 4-3. The full survey results are available in Appendix D.

Table 4-2: Location 1: Representative of Rectory Farm on Dark Lane - Summary of Measured Sound Levels, free-field, dB

Date	Period	$L_{Aeq,T}$	L_{AFMax}	Median L_{A10}	Median L_{A90}
Friday 3 rd November 2023	Daytime	53	80	53	49
	Night-Time	48	68	51	44
Saturday 4 th November 2023	Daytime	51	79	52	47
	Night-Time	42	71	43	34
Sunday 5 th November 2023	Daytime	52	75	52	48
	Night-Time	50	73	51	44
Monday 6 th November 2023	Daytime	55	86	54	51
	Night-Time	-	-	-	-

Table 4-3: Location 2: Representative of Heath House Farm on Bent Lane and residential dwelling on Miry Lane - Summary of Measured Sound Levels, free-field, dB

Date	Period	$L_{Aeq,T}$	L_{AFMax}	Median L_{A10}	Median L_{A90}
Friday 3 rd November 2023	Daytime	55	74	56	53
	Night-Time	51	67	53	46
Saturday 4 th November 2023	Daytime	51	76	53	50
	Night-Time	43	74	44	36
Sunday 5 th November 2023	Daytime	55	86	56	52
	Night-Time	53	68	54	47
Monday 6 th November 2023	Daytime	57	74	58	54
	Night-Time	-	-	-	-

4.6 Baseline Background Sound Levels to use in the Assessment.

Histograms of the daytime and night-time baseline background sound levels can be seen in Appendix E.

For the purpose of the assessment, five separate time frames have been selected with regards to traffic levels at the proposed development. The hours selected, and the reason why, are presented below:



- 00:00 – 01:00: A night-time assessment to determine the impact of the Site when receptors may be more sensitive to noise.
- 03:00 – 04:00: A night-time assessment to determine the impact of the Site when the baseline background sound level is typically low.
- 06:00 – 07:00: A night-time assessment to determine the impact of the Site when it is likely to be busy with more traffic movements.
- 17:00 – 18:00: A daytime assessment to determine the impact of the Site when it is likely to be busy with more traffic movements.
- 22:00 – 23:00: A daytime assessment to determine the impact of the Site when receptors may be more sensitive to noise.

In order to correctly assess the impact of the Site at the nearest NSRs, the measured L_{A90} data has been analysed within these time frames. Tables 4-4, and 4-5 display the measured L_{A90} data.



Table 4-4: Location 1 - Representative of Rectory Farm on Dark Lane and The Bungalow

Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)
04/11/2023 00:00	46	04/11/2023 03:00	40	04/11/2023 06:00	44	03/11/2023 17:00	52	03/11/2023 22:00	49
04/11/2023 00:15	44	04/11/2023 03:15	41	04/11/2023 06:15	43	03/11/2023 17:15	53	03/11/2023 22:15	47
04/11/2023 00:30	44	04/11/2023 03:30	45	04/11/2023 06:30	46	03/11/2023 17:30	53	03/11/2023 22:30	48
04/11/2023 00:45	46	04/11/2023 03:45	45	04/11/2023 06:45	46	03/11/2023 17:45	52	03/11/2023 22:45	48
05/11/2023 00:00	26	05/11/2023 03:00	34	05/11/2023 06:00	39	04/11/2023 17:00	46	04/11/2023 22:00	32
05/11/2023 00:15	25	05/11/2023 03:15	35	05/11/2023 06:15	40	04/11/2023 17:15	45	04/11/2023 22:15	31
05/11/2023 00:30	26	05/11/2023 03:30	36	05/11/2023 06:30	39	04/11/2023 17:30	45	04/11/2023 22:30	31
05/11/2023 00:45	28	05/11/2023 03:45	37	05/11/2023 06:45	41	04/11/2023 17:45	44	04/11/2023 22:45	33
06/11/2023 00:00	43	06/11/2023 03:00	41	06/11/2023 06:00	52	05/11/2023 17:00	53	05/11/2023 22:00	50
06/11/2023 00:15	45	06/11/2023 03:15	41	06/11/2023 06:15	53	05/11/2023 17:15	52	05/11/2023 22:15	49
06/11/2023 00:30	43	06/11/2023 03:30	39	06/11/2023 06:30	54	05/11/2023 17:30	52	05/11/2023 22:30	49
06/11/2023 00:45	42	06/11/2023 03:45	43	06/11/2023 06:45	55	05/11/2023 17:45	52	05/11/2023 22:45	47
Median	43	Median:	41	Median:	45	Median:	52	Median:	47



Table 4-5: Location 2 - Representative of Heath House Farm on Bent Lane and residential dwelling on Miry Lane

Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)	Date/Time	L _{A90} (dB)
04/11/2023 00:00	48	04/11/2023 03:00	42	04/11/2023 06:00	46	03/11/2023 17:00	56	03/11/2023 22:00	50
04/11/2023 00:15	48	04/11/2023 03:15	43	04/11/2023 6:15	45	03/11/2023 17:15	56	03/11/2023 22:15	50
04/11/2023 00:30	47	04/11/2023 03:30	46	04/11/2023 06:30	48	03/11/2023 17:30	56	03/11/2023 22:30	51
04/11/2023 00:45	46	04/11/2023 03:45	44	04/11/2023 06:45	47	03/11/2023 17:45	55	03/11/2023 22:45	51
05/11/2023 00:00	33	05/11/2023 03:00	35	05/11/2023 06:00	43	04/11/2023 17:00	48	04/11/2023 22:00	35
05/11/2023 00:15	32	05/11/2023 03:15	37	05/11/2023 06:15	43	04/11/2023 17:15	48	04/11/2023 22:15	35
05/11/2023 00:30	32	05/11/2023 03:30	37	05/11/2023 06:30	42	04/11/2023 17:30	47	04/11/2023 22:30	37
05/11/2023 00:45	33	05/11/2023 03:45	37	05/11/2023 06:45	42	04/11/2023 17:45	46	04/11/2023 22:45	36
06/11/2023 00:00	47	06/11/2023 03:00	44	06/11/2023 06:00	55	05/11/2023 17:00	56	05/11/2023 22:00	53
06/11/2023 00:15	45	06/11/2023 03:15	42	06/11/2023 06:15	56	05/11/2023 17:15	56	05/11/2023 22:15	52
06/11/2023 00:30	45	06/11/2023 03:30	43	06/11/2023 06:30	58	05/11/2023 17:30	56	05/11/2023 22:30	51
06/11/2023 00:45	44	06/11/2023 03:45	46	06/11/2023 06:45	59	05/11/2023 17:45	55	05/11/2023 22:45	50
Median:	45	Median:	43	Median:	46	Median:	55	Median:	50



4.7 Measurement Uncertainty

In accordance with BS 4142:2014+A1:2019, the uncertainty associated with measured baseline sound levels requires discussion. Baseline sound level measurement uncertainty was minimised using the following steps:

- Measurement locations were representative of the nearest NSRs to the Site.
- Measurements were undertaken using a suitable logging period considered to provide representative background sound levels.
- The sound measurements included an extended period.
- Measurements were rounded to the nearest one decimal place before the final calculations.
- Instrumentation was appropriate and in accordance with Section 5 of BS 4142:2014+A1:2019.



5.0 On-Site Operational Noise Assessment

5.1 Noise Model Assumptions

The sound predictions in this assessment have been undertaken using a proprietary software-based noise model, CadnaA, which implements the full range of UK calculation methods. The calculation algorithms set out in ISO 9613-2:2024 Acoustics – *Attenuation of sound during propagation outdoors – Part 2: General method of calculation* have been used and the model assumes:

- A ground absorption factor of 0.5.
- Contour Data to include OS terrain data.
- A reflection factor of 2.
- A daytime receiver height of 1.5 m and a night-time receiver height of 4.0 m.
- A bund along the eastern boundary of the Site (eastern boundary of Site 3b).

5.2 Noise Sources

As explained in the introduction, the previously assessed plot is adjacent to Plot 11. Therefore, SLR has presented a cumulative BS4142 assessment incorporating both Plot 3b and the adjacent Site (Plot 11) assessed in November 2025.

The noise sources associated with the permitted application and the proposed Plot 3b are detailed in Table 5-1.

Table 5-1: Noise Sources

Adjacent Permitted Plots	Proposed Plot 3b
• HGV movements within the Site. • HGV reversing alarms. • Car movements within the Site to parking spaces. • Fixed Plant.	• HGV movements within the Site. • HGV reversing alarms. • Car movements within the Site to parking spaces. • Fixed Plant.

The traffic related noise sources listed in Table 5-1 have been included in the noise model.

The input parameters are shown in Table 5-2.



Table 5-2: Traffic Noise Sources Sound Power dB(A)

Name	Frequency Hz (dB)									dB (A)	Source Type	Height (m)	Movements / On Time
	31.5	63	125	250	500	1000	2000	4000	8000				
HGV at 15mph	91.9	95.4	91.8	89.5	88.1	88.4	86.9	81.3	70.0	93.0	Line	1	See Table 5-4 for Permitted Plots & Table 5-6 for Plot 3b
Reversing HGV alarm	89.8	95.5	90.8	88	84.1	84.9	82.2	79.6	74.3	89.6	Point	1.5	1 minute per HGV
Car at 10mph	88.5	91.0	82.4	77.2	74.9	74.6	74.5	67.7	60.6	80.2	Moving Point	0.5	See Table 5-4 for Permitted Plots & Table 5-6 for lot 3b



Table 5-3 details the number of HGV and carpark movements associated with the permitted Plots.

Table 5-3: Permitted Plots Movements per Hour¹

Time Range	Vehicle Type	
	Car Movements	HGV Movements
00:00 - 01:00	0	0
01:00 - 02:00	0	0
02:00 - 03:00	0	0
03:00 - 04:00	0	0
04:00 - 05:00	0	0
05:00 - 06:00	77	0
06:00 - 07:00	223	7
07:00 - 08:00	149	20
08:00 - 08:30	187	27
09:00 - 10:00	174	42
10:00 - 11:00	169	38
11:00 - 12:00	121	30
12:00 - 13:00	175	37
13:00 - 14:00	175	30
14:00 - 15:00	137	18
15:00 - 16:00	147	19
16:00 - 17:00	188	14
17:00 - 18:00	168	6
18:00 - 19:00	93	2 ²
19:00 - 20:00	76	35
20:00 - 21:00	111	20
21:00 - 22:00	0	0
22:00 - 23:00	0	0
23:00 - 00:00	0	0

Table 5-4 indicates the five time periods assessed and the number of car and HGV movements during each of these periods.

¹ Traffic Data provided by Hub Transport Planning Ltd.

² 2 HGV movements have been assumed during the quietest hour at the Site for information purposes.



Table 5-4: Movements per Hour for Assessment for Permitted Plots³

Time Range	Vehicle Type	
	Car Movements ⁴	HGV Movements ⁵
00:00 – 01:00	0	0
03:00 – 04:00	0	0
06:00 – 07:00	223	7
17:00 – 18:00	168	6
22:00 – 23:00	0	0

Table 5-5 details the number of HGV and car movements associated with the proposed Plot 3b.

³ Traffic Data provided by Hub Transport Planning Ltd.

⁴ Split one third unit 2, and two thirds unit 1.

⁵ Split one third unit 2, and two thirds unit 1.



Table 5-5: Proposed Plot 3b Movements per Hour⁶

Time Range	Vehicle Type	
	Car Movements	HGV Movements
00:00 - 01:00	0	0
01:00 - 02:00	0	0
02:00 - 03:00	0	0
03:00 - 04:00	0	0
04:00 - 05:00	0	0
05:00 - 06:00	6	0
06:00 - 07:00	18	1
07:00 - 08:00	11	2
08:00 - 09:00	33	5
09:00 - 10:00	11	3
10:00 - 11:00	11	3
11:00 - 12:00	7	2
12:00 - 13:00	11	3
13:00 - 14:00	12	2
14:00 - 15:00	10	1
15:00 - 16:00	10	2
16:00 - 17:00	14	1
17:00 - 18:00	13	0
18:00 - 19:00	7	0
19:00 - 20:00	3	3
20:00 - 21:00	7	2
21:00 - 22:00	0	0
22:00 - 23:00	0	0
23:00 - 00:00	0	0

Table 5-6 indicates the five time periods assessed and the number of Car and HGV movements during each of these periods.

⁶ Traffic Data provided by Transport consultant.



Table 5-6: Movements per Hour for Assessment for Proposed Plot 3b⁷

Time Range	Vehicle Type	
	Car Movements	HGV Movements
00:00 – 01:00	0	0
03:00 – 04:00	0	0
06:00 – 07:00	18	1
17:00 – 18:00	13	0
22:00 – 23:00	0	0

Table 5-7 presents details of the noise sources from fixed plant at both the permitted and proposed developments.

Table 5-7: Noise Sources from Fixed Plant

Site	Location	Noise Source	No. of Plant	Sound Power Level (Each)
Permitted Plot 2a & 2b	External, 1.5m height	Heating, Refrigeration and air handling plant to be provided by Daikin Convini or similar plant	1 plant per 1000 m ² of unit Unit 1: 37 units Unit 2: 13 units	70 dB(A)
Proposed 3b	External, 1.5m height	Heating, Refrigeration and air handling plant to be provided by Daikin Convini or similar plant	1 plant per 1000 m ² of unit 4 units	70 dB(A)

⁷ Traffic Data provided by Transport Consultant.



5.3 BS4142 On-site Operational Noise Assessment

5.3.1 Acoustic Feature Corrections

The character of the noise source, and any corrections that will be applied in the assessment is detailed below:

- **Tonality:** SLR has not undertaken the BS 4142:2014+A1:2019 *objective method for assessing the audibility of tones in sound: one third octave method*. Although reverse alarm beepers can be tonal in character, it is not expected that the noise would be audible against prevailing background sound levels at the Site at any time of day or night. No tonal penalty is considered necessary.
- **Impulsivity:** It is not anticipated that the HGVs would generate impulsive noise.
- **Other sound characteristics:** The HGVs are not considered to have any other sound characteristics that may be readily distinctive against the residual acoustic environment that includes continuous road traffic noise. No penalty is required under 'other characteristics'.
- **Intermittency:** Over the BS 4142:2014+A1:2019 reference period of 1-hour in the day and 15-minutes at night, it is anticipated that noise from HGVs would be intermittent. A 3 dB character correction will therefore be required.

A total of 3 dB acoustic character corrections will be added to the specific sound level to determine rating levels at receptors.

5.3.2 On-site Operational Noise Results

Acoustic character corrections have been added to the predicted sound levels shown in Table 5-5 to derive the rating levels at each of the nearest noise-sensitive receptors.

The difference between rating levels and background sound levels have been compared and assessed accordingly.

The results of the BS 4142:2014+A1:2019 assessment is shown in Tables 5-8 to 5-11. It must be noted that the rating levels and the representative background sound levels have been rounded to the nearest decibel.



Table 5-8: NSR 1 - Residential Dwelling on Dark Lane – Cumulative BS 4142:2014+A1:2019 Assessment, dB

Time Range	Median L_{A90}	Specific Rating Level	Rating Level $L_{Ar,T}$	Difference Between Rating Level and L_{A90}
00:00 – 01:00	43	19	22	-21
03:00 – 04:00	41	19	22	-19
06:00 – 07:00	45	21	24	-21
17:00 – 18:00	52	20	23	-29
22:00 – 23:00	47	17	20	-27

Table 5-9: NSR 2 - Residential Dwellings on Bent Lane and Miry Lane – Cumulative BS 4142:2014+A1:2019 Assessment, dB

Time Range	Median L_{A90}	Specific Rating Level	Rating Level $L_{Ar,T}$	Difference Between Rating Level and L_{A90}
00:00 – 01:00	45	20	23	-22
03:00 – 04:00	43	20	23	-20
06:00 – 07:00	46	31	34	-12
17:00 – 18:00	55	29	32	-23
22:00 – 23:00	50	18	21	-29

Table 5-10: NSR 3 - Residential Dwellings on Miry Lane – Cumulative BS 4142:2014+A1:2019 Assessment, dB

Time Range	Median L_{A90}	Specific Rating Level	Rating Level $L_{Ar,T}$	Difference Between Rating Level and L_{A90}
00:00 – 01:00	45	16	19	-26
03:00 – 04:00	43	16	19	-24
06:00 – 07:00	46	26	29	-17
17:00 – 18:00	55	24	27	-28
22:00 – 23:00	50	14	17	-33

Table 5-11: NSR 4 - The Bungalow – Cumulative BS 4142:2014+A1:2019 Assessment, dB

Time Range	Median L_{A90}	Specific Rating Level	Rating Level $L_{Ar,T}$	Difference Between Rating Level and L_{A90}
00:00 – 01:00	43	20	23	-20
03:00 – 04:00	41	20	23	-18
06:00 – 07:00	45	28	31	-14
17:00 – 18:00	52	26	29	-23
22:00 – 23:00	43	18	21	-22



It can be seen from Tables 5-8 to 5-11 that:

- During the day and night-time periods, noise from fixed plant, Site HGV movements, HGV reverse alarms and car movements is predicted to remain below the background sound level at all assessed nearby residential dwellings, therefore a low impact is anticipated.

Figure 5-1, Figure 5-2, and Figure 5-3 depict the predicted sound levels at the nearest NSRs during the assessed time periods, using noise-modelling software CadnaA.

Figure 5-1– CadnaA Model (00:00 – 01:00 and 03:00 – 04:00)

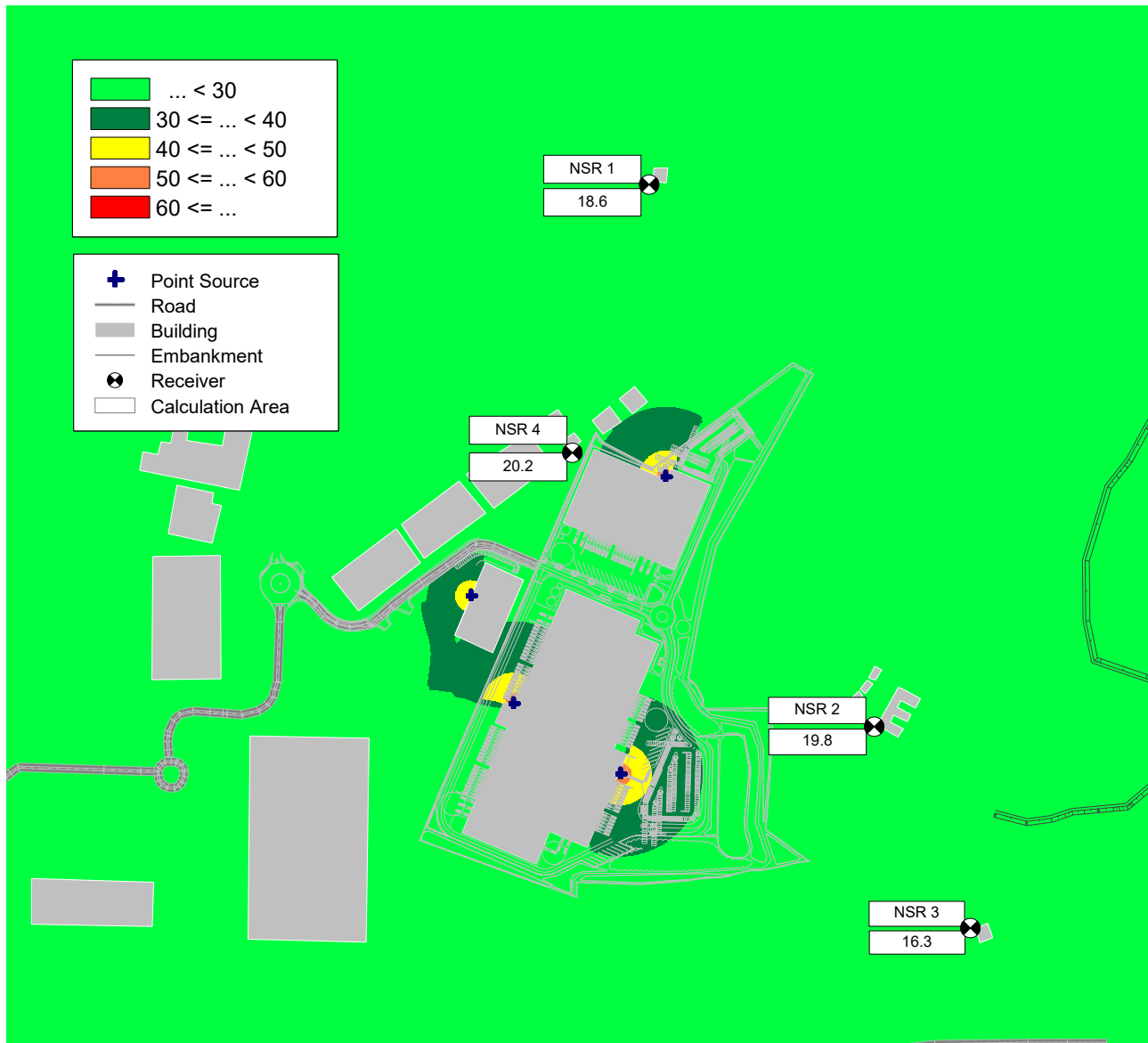


Figure 5-2– CadnaA Model (06:00 – 07:00)

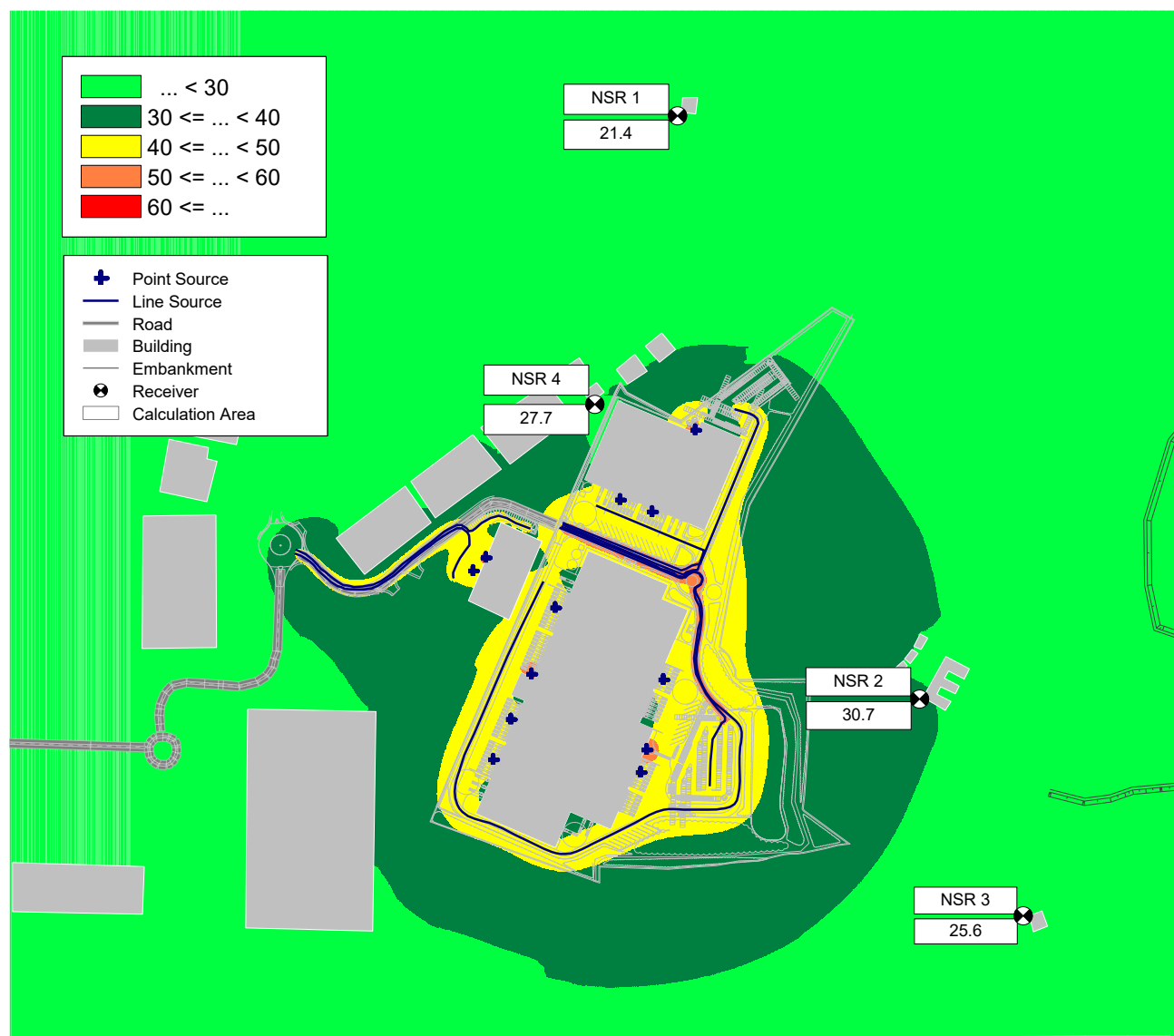


Figure 5-3: CadnaA Model (17:00 – 18:00)

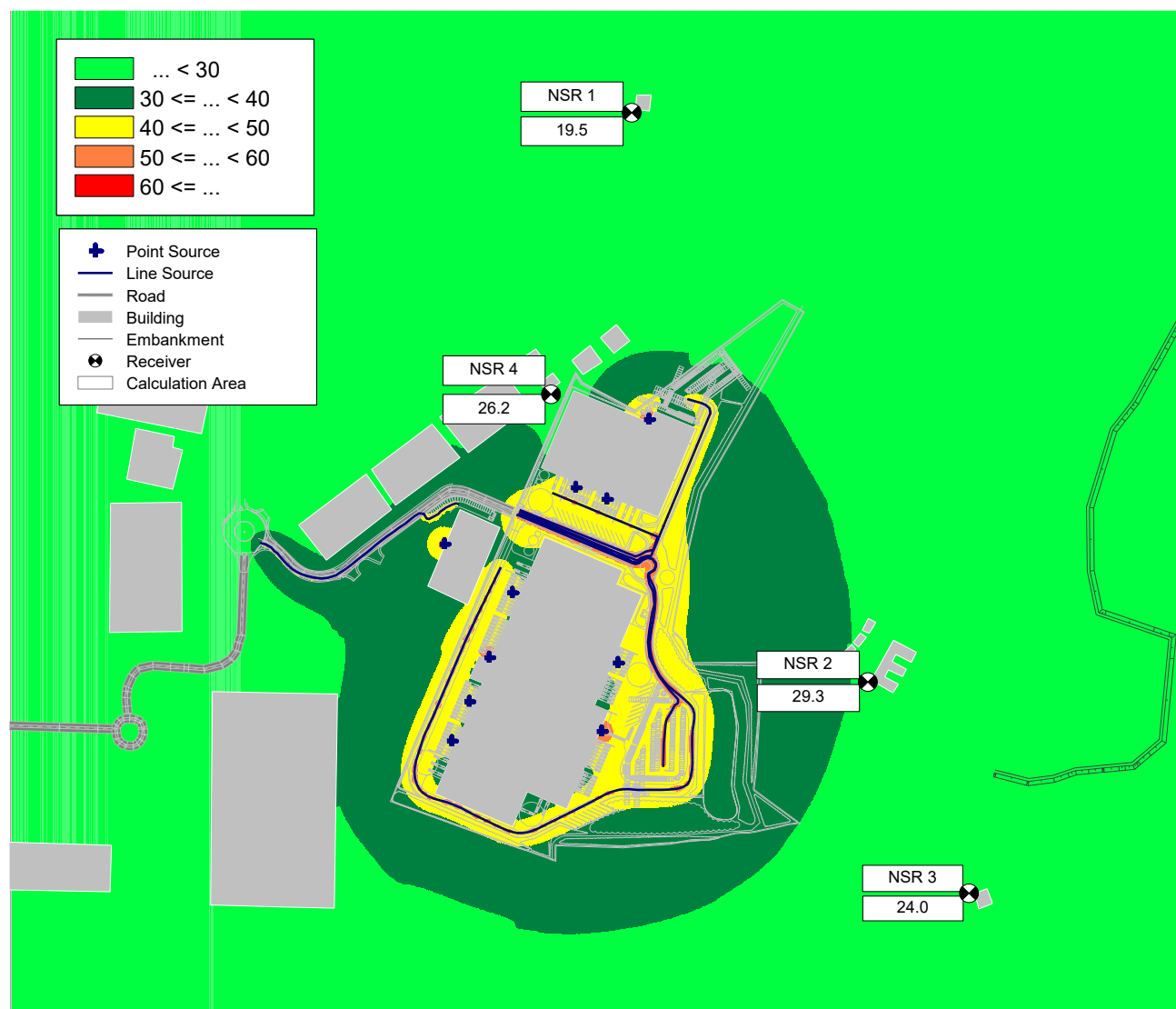
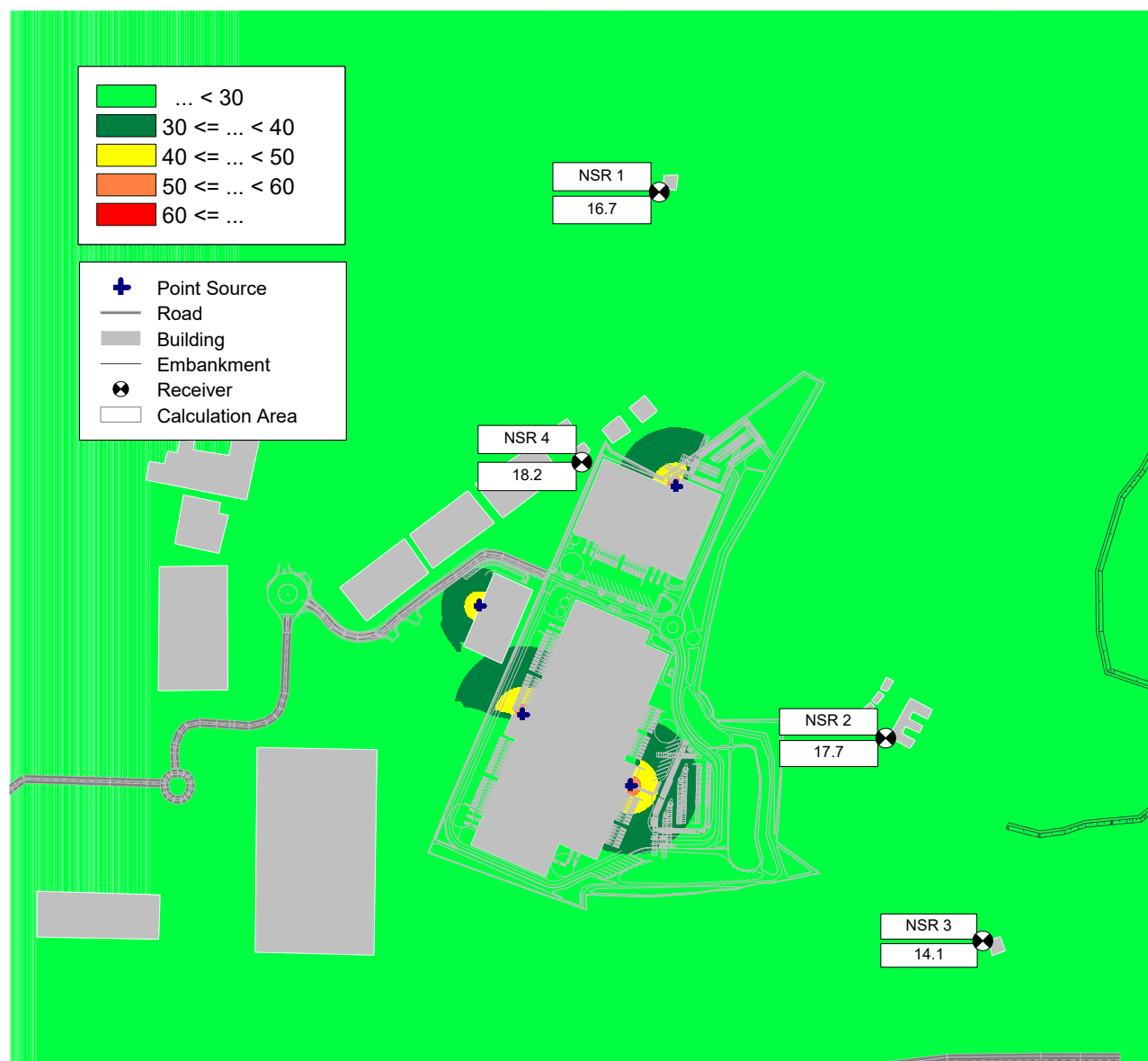


Figure 5-4: CadnaA Model (22:00 – 23:00)



6.0 Off Site Traffic Assessment

The proposals are likely to alter noise levels near the affected network. In accordance with the Design Manual for Roads and Bridges Volume (DMRB) LAN 111 Noise and Vibration, SLR has undertaken an assessment to include the A511.

For this link, the Basic Noise Level (BNL) has been established for the “With Scheme” and “Without Scheme” Scenarios for the assessment year. The BNL is the $L_{A10,T}$ dB noise level at 10m from the kerb of the road assessed.

The BNL results for the A50 overbridge, South of Foston interchange and South of Plot 10 Access has been tabulated for the AM and PM peak. A worst-case assessment is presented showing the with scheme figures including traffic data from all plots.

The results of each assessment are provided in Table 6-1 and Table 6-2.

As with the BS 4142 assessment, this is a cumulative assessment incorporating both the permitted site (Plot 11) and the proposed Plot 3b development.



Table 6-1 AM Peak Hour DMRB LAN 111 Assessment⁸

Link	2028 Baseline (without scheme)				2028 Baseline + Comm + Dev (with scheme)				Change in BNL	Impact
	AM Peak hour traffic flow	% HGV	Average Speed km/h	BNL	AM Peak hour traffic flow	% HGV	Average Speed km/h	BNL		
A50 Overbridge	656	11	112	75.7	1051	12	112	77.9	+ 2.2	Minor
S of Foston interchange	623	9	81	72.7	819	10	81	74.1	+ 1.4	Minor
S of Plot 10 Access	621	9	81	72.7	769	10	81	73.8	+ 1.1	Minor

Table 6-2 PM Peak Hour DMRB LAN 111 Assessment⁹

Link	2028 Baseline (without scheme)				2028 Baseline + Comm + Dev (with scheme)				Change in BNL	Impact
	PM Peak hour traffic flow	% HGV	Average Speed km/h	BNL	PM Peak hour traffic flow	% HGV	Average Speed km/h	BNL		
A50 Overbridge	621	9	112	75.2	1013	9	112	77.3	+ 2.1	Minor
S of Foston interchange	625	6	81	72.2	850	6	81	73.5	+ 1.3	Minor
S of Plot 10 Access	622	6	81	72.2	808	6	81	73.3	+ 1.1	Minor

It is concluded from Table 6-1 and Table 6-2 that the additional traffic associated with Plot 10 is calculated to have a minor or negligible impact which is not considered to be significant.

⁸ The permitted plot data has been used with the following values added to each 3 links for the with scheme test. 15 extra vehicles. 1% Increase in HGVs.

⁹ The permitted plot data has been used with the following values added to each 3 links for the with scheme test. 13 extra vehicles. 0% Increase in HGVs.



7.0 Conclusion

This assessment presents the cumulative noise effects of the permitted site (Plot 11) and the proposed Plot 3b development located within the Dove Valley Park commercial area, off Park Avenue, DE65 5BT. The following work has therefore been included in this Scope.

- A Desktop Noise Impact Assessment of the proposed Plot 3b, undertaken in accordance with BS4142:2014+A1:2019 – ‘Methods for rating and assessing industrial and commercial sound’. As the previously assessed plot is adjacent to the proposed Plot 3b, SLR has presented a cumulative BS4142 assessment with the adjacent Site assessed in November 2025.
- An assessment of development related traffic undertaken with reference to the Design Manual for Roads and Bridges Volume (DMRB) LA111 Noise and Vibration. Again, this assessment would be completed cumulatively with the adjacent Site assessed in November 2025.

The outcomes of these assessments are summarised below and reflect the cumulative position for both the permitted site and Plot 3b.

- The cumulative BS 4142:2014+A1:2019 assessment of on-site operational noise indicates that daytime and night-time sound levels from the proposed Plot 3b development are predicted to remain well below the prevailing background sound level at all assessed residential receptors. On this basis, and in accordance with BS 4142:2014+A1:2019 guidance, a low impact is anticipated.
- The cumulative off-site traffic noise assessment, undertaken with reference to DMRB LA111, identifies minor or negligible changes in road traffic noise levels. These changes are not considered significant and are unlikely to result in any perceptible impact at nearby residential dwellings.



8.0 Closure

The assessment has required a suitable level of technical ability and has been undertaken by a Suitably Qualified Person (SQP). An individual with all the following credentials has been considered a SQP for this assessment:

- Has a minimum of three years' verifiable experience (within the last five years) of providing noise impact assessments in planning. Such experience has clearly demonstrated a practical understanding of factors affecting acoustics in relation to the proposed development use and in the built environment in general, including acting in an advisory capacity to provide recommendations and design advice in planning, and;
- Holds a recognised acoustic qualification and membership of an appropriate professional body. The primary professional body for acoustics in the UK is the Institute of Acoustics.

This assessment has been led and managed by a SQP as defined above.

Where some elements of the assessment (e.g. measurements) have been carried out by an acoustician who does not meet the requirements above, this has been undertaken with the direct guidance and supervision of a SQP who has reviewed, agreed and overseen the measurement methodology and any results obtained.

The SQP confirms that the relevant measurements and calculations:

- Represent good industry practice in accordance with available guidance.
- Are appropriate given the development being assessed and scope of works proposed.
- Avoid invalid, biased and exaggerated claims.

The checker and author of this document confirm that they both comply with the definition of a SQP defined in this Section.

Regards,

SLR Consulting Limited

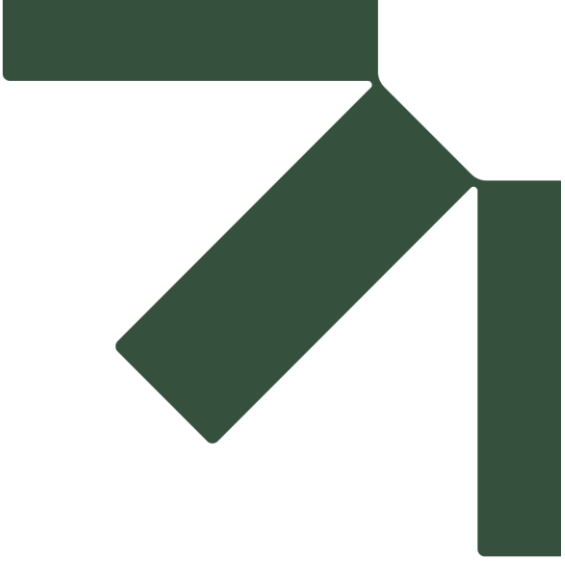
M Dawson

Michelle Dawson, MSc., BSc. (Hons) MIOA
Technical Director – Acoustics & Vibration

C Ianicelli

Chris Ianicelli MSc, AMIOA
Associate Acoustic Consultant





Appendix A Glossary of Terms

Noise Assessment

Dove Valley Park Plot 3b

Dove Valley Park Ltd

SLR Project No.: 403.067025.00001

7 July 2026

The human ear can detect a very wide range of pressure fluctuations, which are perceived as sound. In order to express these fluctuations in a manageable way, a logarithmic scale called the decibel, or dB scale is used. The decibel scale typically ranges from 0dB (the threshold of hearing) to over 120dB. An indication of the range of sound levels commonly found in the environment is given in the following table.

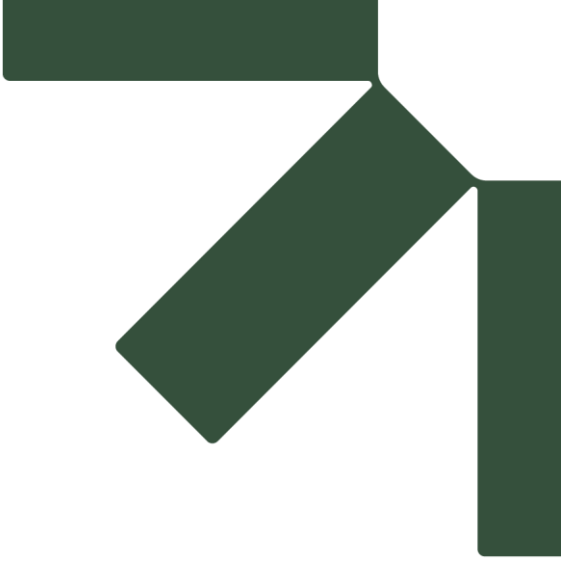
Table A-1: Sound Levels Commonly Found in the Environment

Sound Level	Location
0 dB(A)	Threshold of hearing
20 to 30 dB(A)	Quiet bedroom at night
30 to 40 dB(A)	Living room during the day
40 to 50 dB(A)	Typical office
50 to 60 dB(A)	Inside a car
60 to 70 dB(A)	Typical high street
70 to 90 dB(A)	Inside factory
100 to 110 dB(A)	Burglar alarm at 1m away
110 to 130 dB(A)	Jet aircraft on take off
140 dB(A)	Threshold of Pain

A.1 Acoustic Terminology

dB (decibel)	The scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and a reference pressure (of 20 μ Pa).
dB(A)	A-weighted decibel. This is a measure of the overall level of sound across the audible spectrum with a frequency weighting (i.e. 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
$L_{Aeq, T}$	$L_{Aeq, T}$ is defined as the notional steady sound level which, over a stated period T, would contain the same amount of acoustical energy as the A-weighted fluctuating sound measured over that period.
$L_{A10, T}$ & L_{A90}	If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The L_n indices are used for this purpose, and the term refers to the level exceeded for n% of the time. Hence L_{A10} is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L_{A90} is the 'average minimum level' and is often used to describe the background noise. It is common practice to use the L_{A10} index to describe traffic noise.
$L_{Amax(F)}$	$L_{Amax(F)}$ is the maximum A-weighted sound pressure level recorded over the period stated. L_{Amax} is sometimes used in assessing environmental noise where occasional loud noises occur, which may have little effect on the overall L_{eq} noise level but will still affect the noise environment. Unless described otherwise, it is measured using the 'fast' sound level meter response.





Appendix B Site Location Plan

Noise Assessment

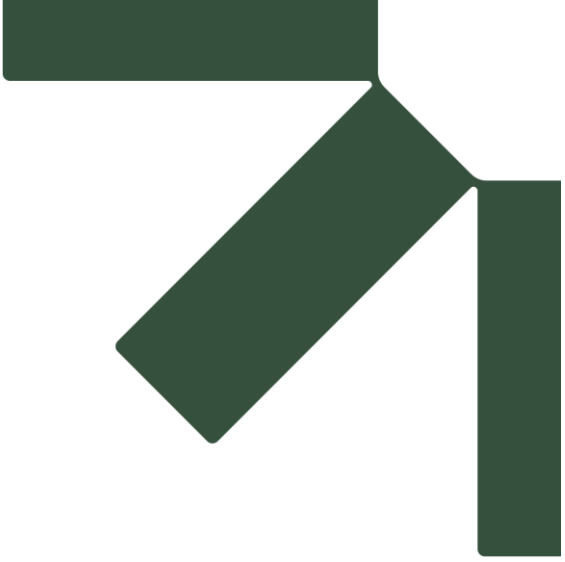
Dove Valley Park Plot 3b

Dove Valley Park Ltd

SLR Project No.: 403.067025.00001

7 July 2026





Appendix C Weather Data

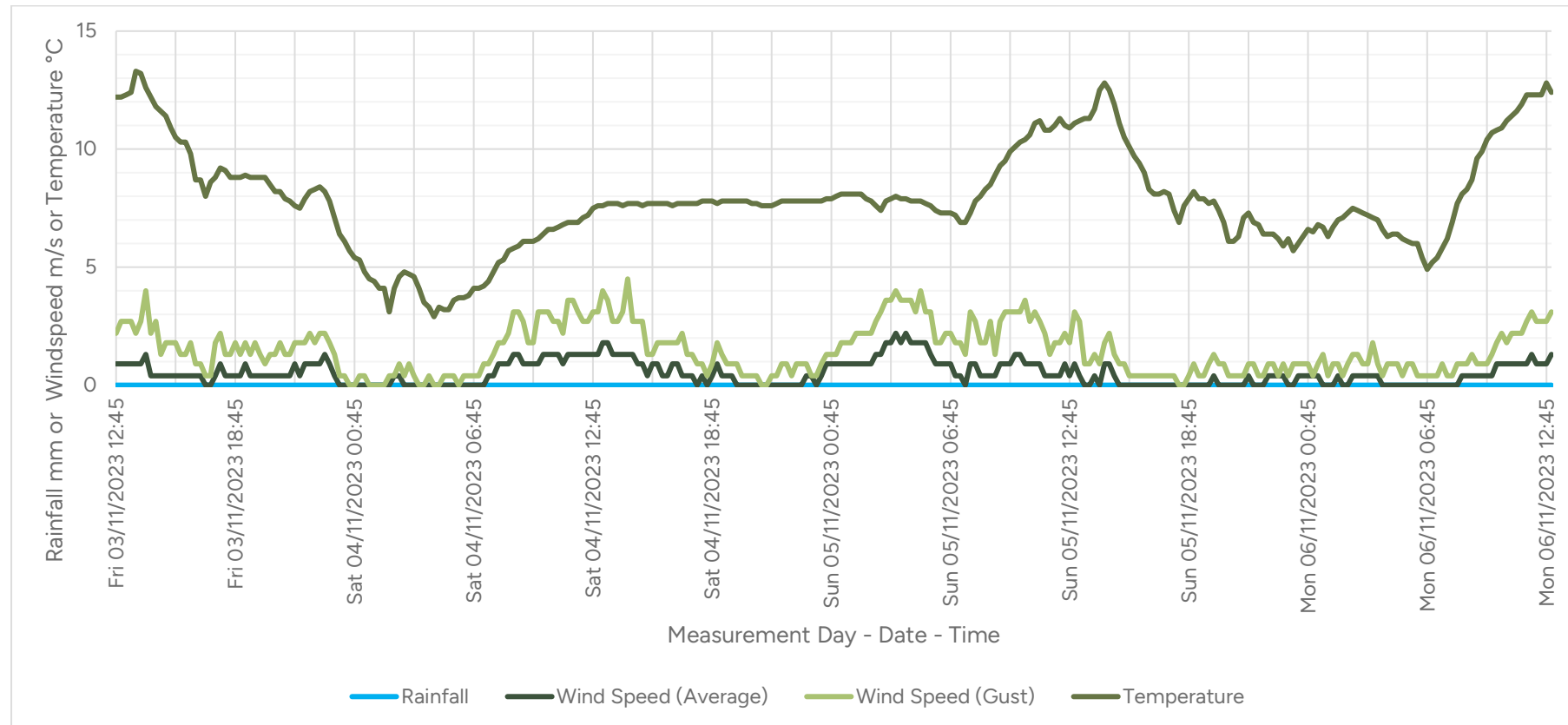
Noise Assessment

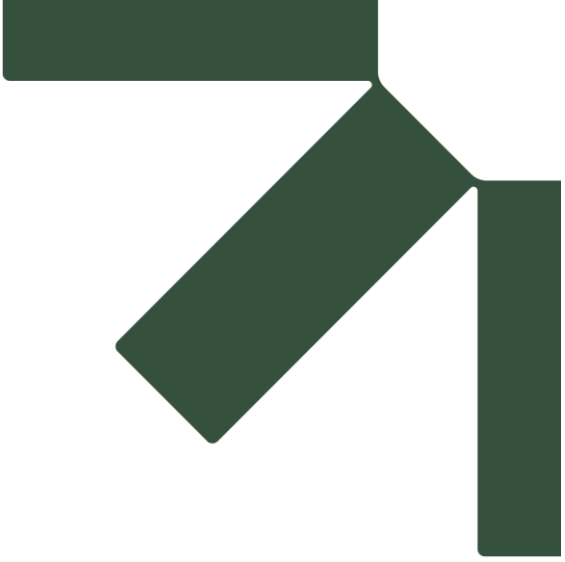
Dove Valley Park Plot 3b

Dove Valley Park Ltd

SLR Project No.: 403.067025.00001

7 July 2026





Appendix D Noise Data

Noise Assessment

Dove Valley Park Plot 3b

Dove Valley Park Ltd

SLR Project No.: 403.067025.00001

7 July 2026

Table D-1: Noise Survey Results at Location 1 free-field, dBA

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
03/11/2023 12:30	56.5	80.1	55.1	50.3
03/11/2023 12:45	51.9	67	52.9	49.1
03/11/2023 13:00	53.2	73.1	53.8	49.2
03/11/2023 13:15	51.6	65.4	52.6	49.6
03/11/2023 13:30	51.5	66.3	52.7	49
03/11/2023 13:45	51.3	60.4	52.7	49.4
03/11/2023 14:00	54.1	76	53.8	49.8
03/11/2023 14:15	52.5	66.9	53.5	49.6
03/11/2023 14:30	51	66.2	51.5	47.8
03/11/2023 14:45	52.6	70	53.5	48.9
03/11/2023 15:00	52.4	66.6	53.5	49.2
03/11/2023 15:15	51.6	66.4	52.9	49.4
03/11/2023 15:30	53.1	70.1	53.5	50.4
03/11/2023 15:45	53	66.7	53.9	50.7
03/11/2023 16:00	54.1	76.5	52.8	49.6
03/11/2023 16:15	52.1	64.9	53.1	50.3
03/11/2023 16:30	54.1	68.7	54.7	51.8
03/11/2023 16:45	55.1	74	54.9	52
03/11/2023 17:00	55	70.1	55.4	52
03/11/2023 17:15	54.6	69.7	55.3	52.6
03/11/2023 17:30	55.3	71.8	55.8	53
03/11/2023 17:45	54.4	70.5	54.8	51.9
03/11/2023 18:00	53.5	69.9	54.1	51.3
03/11/2023 18:15	54	69.8	54.7	51.4
03/11/2023 18:30	54.8	71.6	55.8	51.5
03/11/2023 18:45	52.6	74.3	53.2	49.9
03/11/2023 19:00	51.6	68	52.3	49.5
03/11/2023 19:15	51.6	65.7	52.6	49.4
03/11/2023 19:30	50.5	66.5	51.8	48.4
03/11/2023 19:45	51.9	71.4	53	48.4
03/11/2023 20:00	52.1	71.3	53.3	48
03/11/2023 20:15	49.5	66.8	50.6	46.8
03/11/2023 20:30	50.3	57.8	51.7	48.2
03/11/2023 20:45	51.7	69.7	52.2	48.1

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
03/11/2023 21:00	51.5	63.2	53	49.5
03/11/2023 21:15	50.7	64.5	52.1	47.7
03/11/2023 21:30	51	55.5	52.4	49.2
03/11/2023 21:45	52.2	58.3	53.7	50.4
03/11/2023 22:00	50.7	57.1	52.3	48.7
03/11/2023 22:15	48.8	56.7	50.1	46.8
03/11/2023 22:30	50.2	57.4	51.8	47.9
03/11/2023 22:45	49.7	56.8	51.1	47.7
03/11/2023 23:00	50.4	57.9	51.9	48
03/11/2023 23:15	49.4	59.8	51.1	47.1
03/11/2023 23:30	49.2	56.4	51.2	46.6
03/11/2023 23:45	49.4	54.6	51.2	46.5
04/11/2023 00:00	49.2	68.4	50.3	45.7
04/11/2023 00:15	46.7	53.3	48.6	43.7
04/11/2023 00:30	47.8	59.4	50.2	43.7
04/11/2023 00:45	49.4	57.9	51.4	45.8
04/11/2023 01:00	49	66.2	50.8	44.5
04/11/2023 01:15	47.8	54.4	50.3	43.5
04/11/2023 01:30	45.8	52.8	48	42.2
04/11/2023 01:45	46	56.1	48.2	42.4
04/11/2023 02:00	46.6	53.4	48.9	42.5
04/11/2023 02:15	46.5	54.2	48.9	42.6
04/11/2023 02:30	47	58.4	49.2	43.1
04/11/2023 02:45	44.5	51.5	47.1	39.8
04/11/2023 03:00	43.5	50.7	45.6	40.2
04/11/2023 03:15	45.4	53.3	47.7	41
04/11/2023 03:30	48.3	57.5	50.6	44.9
04/11/2023 03:45	48.3	55.8	50.7	44.5
04/11/2023 04:00	48.8	56.7	51.6	43.9
04/11/2023 04:15	49.8	57.6	52.5	44.4
04/11/2023 04:30	49.5	55.6	51.6	45.9
04/11/2023 04:45	48.7	54.6	50.9	43.8
04/11/2023 05:00	48.2	54.3	50.5	44.4
04/11/2023 05:15	49.3	55.2	51.7	44.9
04/11/2023 05:30	47.8	60.4	50.4	42.3
04/11/2023 05:45	47.7	56.9	49.9	44

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
04/11/2023 06:00	48.4	58.5	51.2	43.5
04/11/2023 06:15	48	58.3	50.6	43.1
04/11/2023 06:30	49.3	57.5	51.5	46.4
04/11/2023 06:45	49.7	67.6	51.5	45.8
04/11/2023 07:00	49.3	64.6	50.9	46.2
04/11/2023 07:15	50.3	68.6	51	47.6
04/11/2023 07:30	50.6	69.6	51.3	48
04/11/2023 07:45	50.8	70	51.8	48.1
04/11/2023 08:00	51.5	66.4	52.3	49.4
04/11/2023 08:15	53.8	70.9	54.7	49.7
04/11/2023 08:30	53	71.1	53.5	49.7
04/11/2023 08:45	52.6	68.6	53.4	49.8
04/11/2023 09:00	54.6	73.9	54.6	50.5
04/11/2023 09:15	53.2	71.4	53.4	49.4
04/11/2023 09:30	52.6	76.5	52.7	49.8
04/11/2023 09:45	51.5	69.4	52.2	49.4
04/11/2023 10:00	53.3	69.4	53.3	50.1
04/11/2023 10:15	54	73	53	49.4
04/11/2023 10:30	53.3	71.9	53.4	49.1
04/11/2023 10:45	54.7	78.7	54.5	49.5
04/11/2023 11:00	53.1	72.3	52.9	49
04/11/2023 11:15	52.9	71.2	53.2	50.3
04/11/2023 11:30	51.6	65	52.8	49.9
04/11/2023 11:45	52.5	67.6	53.4	49.9
04/11/2023 12:00	51.8	66.3	53.2	49.6
04/11/2023 12:15	52.3	69.5	53.2	49.5
04/11/2023 12:30	51.3	68.2	52.2	48.9
04/11/2023 12:45	51.5	67.2	52.6	48.7
04/11/2023 13:00	53.3	72.1	54.8	49.2
04/11/2023 13:15	52.9	75.7	53.7	48.8
04/11/2023 13:30	52.2	72	52	48.6
04/11/2023 13:45	51.8	67.9	52.4	48.3
04/11/2023 14:00	52.4	71.7	52.9	48.3
04/11/2023 14:15	53.4	73.9	53.1	48.4
04/11/2023 14:30	51.5	68.6	52.4	47.8
04/11/2023 14:45	50.5	72.6	51.2	47.7

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
04/11/2023 15:00	51.3	70.5	51.1	47.1
04/11/2023 15:15	51.7	72.5	50.9	46.9
04/11/2023 15:30	52	71.1	52.5	47.2
04/11/2023 15:45	50.1	70.1	50.6	46.3
04/11/2023 16:00	52.9	71.7	52.7	46.3
04/11/2023 16:15	48.5	58.9	50.1	46.3
04/11/2023 16:30	52.2	72.3	51.9	46.7
04/11/2023 16:45	50.4	71.7	50.9	46.8
04/11/2023 17:00	48	66	48.6	45.5
04/11/2023 17:15	48.5	70.4	48.2	45.4
04/11/2023 17:30	50.3	69.9	50.2	44.6
04/11/2023 17:45	50	72.9	50	44
04/11/2023 18:00	50.6	73.9	47.9	42.3
04/11/2023 18:15	50	72.6	47.3	41.5
04/11/2023 18:30	48.4	68.4	49.8	41.5
04/11/2023 18:45	50.7	72.9	51.7	40.5
04/11/2023 19:00	51.2	74.9	51.8	42.6
04/11/2023 19:15	47.1	67.2	48.3	41.3
04/11/2023 19:30	45.3	65.4	46.6	41
04/11/2023 19:45	44.7	63	46.7	41.1
04/11/2023 20:00	41.3	63.4	43.1	35.3
04/11/2023 20:15	45.8	77	42.4	34.7
04/11/2023 20:30	39.2	53.2	41	36.1
04/11/2023 20:45	39.5	49	41.2	37.2
04/11/2023 21:00	44.3	69.4	42.6	35.1
04/11/2023 21:15	37.3	51.2	38.7	35.5
04/11/2023 21:30	44.3	66.5	39.8	34.4
04/11/2023 21:45	35.8	52.8	37.8	33.2
04/11/2023 22:00	33.7	55.6	34.6	31.9
04/11/2023 22:15	43.3	69.8	34.5	31.1
04/11/2023 22:30	35.4	52.2	36.5	31.4
04/11/2023 22:45	40.9	64.9	37.2	33.2
04/11/2023 23:00	43.9	66.1	42.7	28.8
04/11/2023 23:15	37.3	56.1	38.8	27.5
04/11/2023 23:30	28.4	44.8	29.5	26.7
04/11/2023 23:45	30.7	46	33.4	25.6

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
05/11/2023 00:00	35	50.9	37.6	26.3
05/11/2023 00:15	28.4	43.1	30.1	25.4
05/11/2023 00:30	29.2	46.4	31.2	26.2
05/11/2023 00:45	30.8	45.6	33.1	27.6
05/11/2023 01:00	32.7	47.5	35.3	27.2
05/11/2023 01:15	33.3	47.7	35.8	28.4
05/11/2023 01:30	34.6	49.4	37.9	28.5
05/11/2023 01:45	36.7	50.6	40	30.5
05/11/2023 02:00	36.7	50.1	39.4	30.4
05/11/2023 02:15	37.4	56.4	40.1	30.8
05/11/2023 02:30	38.9	49.7	42	32.8
05/11/2023 02:45	39.6	54.9	42.3	34
05/11/2023 03:00	40.8	58.9	43.9	34
05/11/2023 03:15	44.1	60.4	47.4	35.4
05/11/2023 03:30	43.9	58.9	47.1	35.6
05/11/2023 03:45	45.9	60.8	49.5	36.5
05/11/2023 04:00	44	58.8	47.7	35
05/11/2023 04:15	45.8	58.6	49.8	37.4
05/11/2023 04:30	44.2	63.6	47.6	34.2
05/11/2023 04:45	42.7	57.5	45.8	35.5
05/11/2023 05:00	45.2	60.7	48.3	37.4
05/11/2023 05:15	44.1	56.6	47.5	37.1
05/11/2023 05:30	42	53.5	44.7	37.2
05/11/2023 05:45	42.6	53.5	45	38.2
05/11/2023 06:00	43.6	56.2	46.2	39.2
05/11/2023 06:15	43.8	54.2	45.7	40.4
05/11/2023 06:30	47	71	50.4	39.1
05/11/2023 06:45	45.4	61.5	47	41.3
05/11/2023 07:00	46.4	67.7	47.1	41.7
05/11/2023 07:15	46.9	67.7	48.2	43.2
05/11/2023 07:30	50.2	74.4	47.9	42.5
05/11/2023 07:45	49.2	69.3	50	42.8
05/11/2023 08:00	47	65.7	47.6	43.3
05/11/2023 08:15	48.9	70.6	49	43.7
05/11/2023 08:30	49.5	72.3	49.2	43.7
05/11/2023 08:45	51	67.5	55.2	44.1

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
05/11/2023 09:00	49.7	69.4	50.3	44.4
05/11/2023 09:15	50.5	73.6	50.3	44.7
05/11/2023 09:30	49.9	69.5	50.7	45.2
05/11/2023 09:45	51.2	71.1	51.1	45.4
05/11/2023 10:00	50.7	67.9	51.6	45.6
05/11/2023 10:15	49.7	68.5	50.1	45.2
05/11/2023 10:30	50.8	71.7	50.8	45.4
05/11/2023 10:45	51.5	70	52.1	46.8
05/11/2023 11:00	51.2	71.4	50.7	46.9
05/11/2023 11:15	50.2	71.1	49.7	45.7
05/11/2023 11:30	49.7	68.3	50.7	45.4
05/11/2023 11:45	50.3	67.8	51.7	47.9
05/11/2023 12:00	52.2	69.9	53	47.8
05/11/2023 12:15	51.4	70.1	51.8	47.3
05/11/2023 12:30	49.7	68	50.8	47.1
05/11/2023 12:45	51.4	71.5	52.4	47.3
05/11/2023 13:00	51.6	71	51.1	46.4
05/11/2023 13:15	50.6	68.6	50.2	45.9
05/11/2023 13:30	50.1	65.2	50.5	46
05/11/2023 13:45	51	69.4	52.1	44.9
05/11/2023 14:00	48.6	64	50.6	45.4
05/11/2023 14:15	51	73.4	52.1	48.2
05/11/2023 14:30	50.5	64.6	52.2	47.7
05/11/2023 14:45	52.3	71.4	52.4	48.8
05/11/2023 15:00	52	70.3	52.2	49.2
05/11/2023 15:15	52.9	73.2	53.3	49.9
05/11/2023 15:30	53.3	69.9	54	50.1
05/11/2023 15:45	52.7	65.7	53.8	50.3
05/11/2023 16:00	52.6	59.3	54.1	50.2
05/11/2023 16:15	54.6	69	55.7	52.6
05/11/2023 16:30	54.4	69.3	55.2	52.4
05/11/2023 16:45	54.1	65	55.2	52.3
05/11/2023 17:00	54.7	68.3	55.2	52.5
05/11/2023 17:15	54.7	71.8	55.5	52.3
05/11/2023 17:30	55	75	55.3	52
05/11/2023 17:45	53.3	69.1	54.1	51.7

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
05/11/2023 18:00	52.8	64.8	53.7	51.4
05/11/2023 18:15	53.5	68.6	54.6	51.5
05/11/2023 18:30	53.2	68	54.5	50.7
05/11/2023 18:45	52.4	67.9	53.7	49.3
05/11/2023 19:00	51.8	58.8	53.2	50.1
05/11/2023 19:15	52.9	71.6	53.8	50.5
05/11/2023 19:30	52.7	60.1	54.1	50.9
05/11/2023 19:45	52.5	67.7	53.8	49.7
05/11/2023 20:00	52.9	69	54.2	50.7
05/11/2023 20:15	53	64.8	54.1	51.4
05/11/2023 20:30	51.8	57.5	53.5	49.9
05/11/2023 20:45	53.5	70.8	54.2	51.2
05/11/2023 21:00	53.1	59.9	54.4	51.6
05/11/2023 21:15	51.9	59.6	53.3	50.1
05/11/2023 21:30	51.2	64.9	52.6	49.1
05/11/2023 21:45	50.9	64.2	52.2	48.6
05/11/2023 22:00	52.3	68.6	53.5	49.7
05/11/2023 22:15	51.4	58	53	48.7
05/11/2023 22:30	50.9	59.7	52.4	48.8
05/11/2023 22:45	50.3	60.4	52.2	47
05/11/2023 23:00	50	59.1	52.1	46.8
05/11/2023 23:15	49.8	62.3	51.9	46.4
05/11/2023 23:30	49.6	57.4	51.6	46.5
05/11/2023 23:45	48.7	69	49.8	45
06/11/2023 00:00	48.8	69	50.4	43.4
06/11/2023 00:15	50.2	69	51.8	44.8
06/11/2023 00:30	47.1	59.3	49.3	43.4
06/11/2023 00:45	46	54.7	48.3	42.3
06/11/2023 01:00	46	56.9	48.5	41.9
06/11/2023 01:15	45.9	52.2	48.1	42.2
06/11/2023 01:30	46.4	54.8	49.5	41
06/11/2023 01:45	43.7	54.2	46	39.1
06/11/2023 02:00	44.2	52.9	46.6	40.4
06/11/2023 02:15	45	56	47.3	40.5
06/11/2023 02:30	44.3	53.2	46.8	39.2
06/11/2023 02:45	44.8	56.7	47.4	40.1

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
06/11/2023 03:00	45.5	54.1	47.9	41.2
06/11/2023 03:15	46.3	60.7	48.9	41
06/11/2023 03:30	45.9	58.2	49	39
06/11/2023 03:45	48.5	58	51.2	43.3
06/11/2023 04:00	47.5	56.3	49.8	44
06/11/2023 04:15	50.4	73.1	51.1	45.9
06/11/2023 04:30	49	57	50.7	46.2
06/11/2023 04:45	50.3	68	51.9	47
06/11/2023 05:00	50	57.5	51.7	47.5
06/11/2023 05:15	52.1	58.2	53.5	50.2
06/11/2023 05:30	53.3	65.5	54.4	51.6
06/11/2023 05:45	54	65	55	52.4
06/11/2023 06:00	53.8	57.7	55	52.3
06/11/2023 06:15	54.8	62.2	55.9	53.4
06/11/2023 06:30	55.3	65.2	56.2	54
06/11/2023 06:45	56.1	61.6	57.1	54.8
06/11/2023 07:00	56.4	66.9	57.2	55.1
06/11/2023 07:15	56.4	68.7	57.1	55.1
06/11/2023 07:30	56.4	69.7	57.2	54.6
06/11/2023 07:45	57.4	69.9	58.3	55.1
06/11/2023 08:00	56.9	73.7	57.1	54.9
06/11/2023 08:15	55.9	69.2	56.6	54.2
06/11/2023 08:30	55.6	69.1	56.5	53.8
06/11/2023 08:45	55.4	70.2	55.7	52.9
06/11/2023 09:00	54.1	73.9	54.6	51.4
06/11/2023 09:15	53.3	67	53.9	51.5
06/11/2023 09:30	53.3	67.2	54	50.6
06/11/2023 09:45	52.8	69.2	53.3	50.2
06/11/2023 10:00	53.1	70.4	53.7	50.3
06/11/2023 10:15	52	64.4	53	50
06/11/2023 10:30	52.8	71.7	53.6	50.4
06/11/2023 10:45	52.6	67.8	53.8	50
06/11/2023 11:00	52.9	73.1	53.5	50.3
06/11/2023 11:15	52.9	69.5	53.6	49.3
06/11/2023 11:30	53.1	70.8	53.8	49.6
06/11/2023 11:45	57.3	86.3	53.9	49.9

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
06/11/2023 12:00	53	68.1	54.3	50
06/11/2023 12:15	52.7	69.1	53.7	49.7
06/11/2023 12:30	52.6	66.6	53.7	50.7
06/11/2023 12:45	53.2	69.3	54.7	50.5

Table D-2: Noise Survey Results at Location 2 free-field, dBA

Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
03/11/2023 13:00	55.2	73.4	56.4	52.8
03/11/2023 13:15	54.8	62.9	56.2	52.8
03/11/2023 13:30	54.8	64	56.3	52.8
03/11/2023 13:45	55.3	59.9	56.7	53.3
03/11/2023 14:00	55.2	62.2	56.6	53.5
03/11/2023 14:15	54.8	61.3	56.2	52.7
03/11/2023 14:30	53.6	64.2	54.9	51.7
03/11/2023 14:45	54.3	61.9	55.8	52.3
03/11/2023 15:00	55.3	63.8	56.7	53.3
03/11/2023 15:15	55.3	60.5	56.8	53.4
03/11/2023 15:30	55.4	60.4	56.6	53.8
03/11/2023 15:45	55.9	65.8	57.1	53.9
03/11/2023 16:00	55.4	61.1	56.4	54
03/11/2023 16:15	56.4	61.7	57.5	54.8
03/11/2023 16:30	57.3	61.3	58.4	55.8
03/11/2023 16:45	56.6	64.3	57.6	55.3
03/11/2023 17:00	57.1	62	58.1	55.8
03/11/2023 17:15	57.1	63	58	55.8
03/11/2023 17:30	57.7	61.7	58.8	56.3
03/11/2023 17:45	56.8	61.7	58	55.1
03/11/2023 18:00	56.3	66.2	57.6	54.1
03/11/2023 18:15	55.9	62.1	57.2	54.3
03/11/2023 18:30	56.5	66	57.8	54.3
03/11/2023 18:45	54.4	59.5	55.8	52.7
03/11/2023 19:00	53.9	58.3	55.1	52.2
03/11/2023 19:15	54.5	61.5	55.9	52.5
03/11/2023 19:30	53.1	60.9	54.4	51.2
03/11/2023 19:45	54.8	71.6	56.8	51.7
03/11/2023 20:00	53.5	73.7	54.8	50.3
03/11/2023 20:15	53.4	64.9	55.1	50.8
03/11/2023 20:30	53.9	59.8	55.3	51.7
03/11/2023 20:45	53.7	61	55.4	51
03/11/2023 21:00	54.2	63.5	55.8	52
03/11/2023 21:15	53.3	59.7	55.2	50.6
03/11/2023 21:30	54.3	59.2	55.8	52.4
03/11/2023 21:45	54.5	61.5	56.1	52.3
03/11/2023 22:00	53.4	59.2	55.5	50.3
03/11/2023 22:15	53.1	60.5	55.1	50.2
03/11/2023 22:30	53.1	59.5	54.7	50.9
03/11/2023 22:45	53.5	59.2	55.3	50.9
03/11/2023 23:00	53.4	63.7	55.1	50.8
03/11/2023 23:15	52.7	58.5	54.6	49.8
03/11/2023 23:30	52.8	59.8	54.8	49.7
03/11/2023 23:45	53.1	59.6	55.2	49.9
04/11/2023 00:00	51.5	59	53.7	48
04/11/2023 00:15	51.3	57.7	53.3	47.7
04/11/2023 00:30	51.5	60	53.8	47.1
04/11/2023 00:45	50.9	57.9	53.8	45.6
04/11/2023 01:00	51.8	58.5	54.3	48
04/11/2023 01:15	51.2	62.5	54.2	45.7
04/11/2023 01:30	48.7	56.5	51	44.5
04/11/2023 01:45	49.1	55.5	51.3	45.7
04/11/2023 02:00	49.5	58.9	52.7	44.1
04/11/2023 02:15	50.7	59.5	53.2	46.9
04/11/2023 02:30	49	57.2	51.6	44



Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
04/11/2023 02:45	48	55	50.6	43.3
04/11/2023 03:00	47	55.5	49.6	42.4
04/11/2023 03:15	48.3	57.3	51.2	42.5
04/11/2023 03:30	49.8	57.4	52.1	45.7
04/11/2023 03:45	49	57.2	51.8	43.8
04/11/2023 04:00	50.3	60.2	52.9	44.2
04/11/2023 04:15	49.5	56.8	52.4	44
04/11/2023 04:30	50.3	58.1	53.3	45.2
04/11/2023 04:45	50.9	59.1	54.1	43.4
04/11/2023 05:00	50.2	57.1	53	45.5
04/11/2023 05:15	49.2	60.1	51.9	44.2
04/11/2023 05:30	50.3	60.8	52.7	44.9
04/11/2023 05:45	48.7	55.4	51	45.1
04/11/2023 06:00	50.2	59.7	52.9	45.6
04/11/2023 06:15	49.5	57.3	51.7	45.3
04/11/2023 06:30	50.8	66.9	52.7	47.9
04/11/2023 06:45	49.8	56.8	51.6	47.3
04/11/2023 07:00	50.2	64.7	51.7	47.9
04/11/2023 07:15	50.6	58.1	52.1	48.7
04/11/2023 07:30	51.3	57	52.7	49.5
04/11/2023 07:45	51.8	56.4	53	50.3
04/11/2023 08:00	52.5	57.5	53.8	50.7
04/11/2023 08:15	53.5	58.6	54.9	51.6
04/11/2023 08:30	54	61.9	55.4	52.2
04/11/2023 08:45	55.3	63.8	57	52.6
04/11/2023 09:00	54.4	60.3	55.9	52.4
04/11/2023 09:15	53.1	65.4	54.4	51.2
04/11/2023 09:30	54.4	76.2	54.1	51.2
04/11/2023 09:45	53.2	60.7	54.4	51.5
04/11/2023 10:00	53.1	58.3	54.4	51.3
04/11/2023 10:15	53.1	58.5	54.5	51.2
04/11/2023 10:30	52.8	59.2	54	51.3
04/11/2023 10:45	53	62.1	54.3	51.2
04/11/2023 11:00	53	66.4	54.1	51.3
04/11/2023 11:15	53.5	60.7	54.6	52.2
04/11/2023 11:30	53.3	65.4	54.4	51.8
04/11/2023 11:45	52.9	61.5	54.2	51.4
04/11/2023 12:00	52.8	67.7	54.1	51.1
04/11/2023 12:15	53.3	71.8	54.2	51.3
04/11/2023 12:30	52.2	56.2	53.5	50.7
04/11/2023 12:45	52.4	59.6	53.7	50.7
04/11/2023 13:00	53.1	65.7	54.2	50.9
04/11/2023 13:15	52.5	60.4	53.8	50.6
04/11/2023 13:30	52.7	61.1	54	50.9
04/11/2023 13:45	52.9	68.7	53.8	50.8
04/11/2023 14:00	52.4	57.2	53.8	50.8
04/11/2023 14:15	52.4	56.2	53.7	50.5
04/11/2023 14:30	51.8	59.6	53	50.1
04/11/2023 14:45	51.9	58.1	53.5	50
04/11/2023 15:00	51.6	57.5	53	49.7
04/11/2023 15:15	51.8	56.9	53.1	50
04/11/2023 15:30	51.8	59.7	53.1	49.9
04/11/2023 15:45	51.2	63	52.6	49
04/11/2023 16:00	51.6	72.8	52.2	48.9
04/11/2023 16:15	51.6	63.2	52.9	49.7
04/11/2023 16:30	51.1	69	52.1	49.4



Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
04/11/2023 16:45	51.5	70	52.4	49.3
04/11/2023 17:00	50	56.6	51.3	48.4
04/11/2023 17:15	50.7	67.7	51.1	47.8
04/11/2023 17:30	49	68.7	50.3	47.1
04/11/2023 17:45	48.5	62.8	49.8	46.2
04/11/2023 18:00	46.9	57.2	48.3	45.2
04/11/2023 18:15	46.9	56.8	48.2	45.1
04/11/2023 18:30	46.8	65.6	47.8	44
04/11/2023 18:45	46.7	67.2	48.1	41.7
04/11/2023 19:00	48	64	49.8	44.3
04/11/2023 19:15	48.6	70.7	50	45.8
04/11/2023 19:30	47.1	70.7	48.8	42.8
04/11/2023 19:45	46.2	70	47.3	43.9
04/11/2023 20:00	43.4	65.8	45.2	40
04/11/2023 20:15	46.3	52.4	48.5	41.9
04/11/2023 20:30	46.6	57.2	48.2	43.9
04/11/2023 20:45	44.2	53.8	45.7	42.3
04/11/2023 21:00	43.5	55.8	44.7	41.2
04/11/2023 21:15	41.4	50.8	42.9	39.1
04/11/2023 21:30	39.3	48.9	40.4	37.8
04/11/2023 21:45	37.7	58.3	38.7	36
04/11/2023 22:00	38.3	64.9	38.2	34.8
04/11/2023 22:15	37	53.9	38.2	35.2
04/11/2023 22:30	39.9	51.7	41.2	37.1
04/11/2023 22:45	39.6	56.4	40.4	36.4
04/11/2023 23:00	43.2	62.9	42.1	32.5
04/11/2023 23:15	38.7	57.4	39.3	31.8
04/11/2023 23:30	33.2	44.4	34.9	30.5
04/11/2023 23:45	39.6	56.2	42	33.5
05/11/2023 00:00	38.4	49.6	41.4	33.2
05/11/2023 00:15	35.1	45.5	37.1	31.6
05/11/2023 00:30	36.3	44.4	38.9	31.9
05/11/2023 00:45	37.6	50.4	40	33.2
05/11/2023 01:00	38.9	49.3	41.5	34.1
05/11/2023 01:15	38.3	52.2	41.1	33.1
05/11/2023 01:30	38.1	51.6	41	32.3
05/11/2023 01:45	40.1	53.5	42.7	35.5
05/11/2023 02:00	40.7	53.7	43.2	35.1
05/11/2023 02:15	41	52.3	44	35.3
05/11/2023 02:30	41	50.7	43.6	35.6
05/11/2023 02:45	40.9	51.6	43.8	36
05/11/2023 03:00	40.7	49	43.6	35.4
05/11/2023 03:15	41.5	53.6	44.2	36.9
05/11/2023 03:30	40.7	51.3	43	36.8
05/11/2023 03:45	42.1	54.5	45	36.6
05/11/2023 04:00	41.2	50.7	43.7	37.2
05/11/2023 04:15	41.5	50.8	43.8	37.6
05/11/2023 04:30	41.8	51.6	44.9	35.7
05/11/2023 04:45	42.7	52.8	45.6	34.8
05/11/2023 05:00	43.3	55.7	45.4	39.6
05/11/2023 05:15	43	55.4	46	36.9
05/11/2023 05:30	43.5	51.7	46.2	39.4
05/11/2023 05:45	45.2	54	47.4	41.7
05/11/2023 06:00	46.4	55.7	48.8	42.7
05/11/2023 06:15	49.8	73.7	49.1	43.3
05/11/2023 06:30	47	72.9	47	42



Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
05/11/2023 06:45	45.5	56.4	47.8	41.8
05/11/2023 07:00	48.9	55.6	51.1	45.4
05/11/2023 07:15	48.3	55.8	49.9	46
05/11/2023 07:30	48	55.9	49.9	45.5
05/11/2023 07:45	52.4	84.7	50.8	46.6
05/11/2023 08:00	49.3	59.6	51	46.9
05/11/2023 08:15	49.1	58.2	50.7	47
05/11/2023 08:30	49.4	58.9	51.4	46.5
05/11/2023 08:45	56.5	83.2	53.7	47.3
05/11/2023 09:00	50.5	69.5	51.9	47.7
05/11/2023 09:15	50.7	69.8	52.2	48.4
05/11/2023 09:30	50.6	57.3	52.2	48.5
05/11/2023 09:45	50.7	64.8	52.3	48.3
05/11/2023 10:00	51.7	66	53.4	48.9
05/11/2023 10:15	51.3	65.2	52.8	49.2
05/11/2023 10:30	52.1	67.3	53.5	49.9
05/11/2023 10:45	51.9	57.4	53.4	49.9
05/11/2023 11:00	52.3	57.4	53.6	50.5
05/11/2023 11:15	52.1	61.5	53.6	49.9
05/11/2023 11:30	53.6	60.6	55.4	50.1
05/11/2023 11:45	53.7	65.2	54.9	52
05/11/2023 12:00	54.1	68.1	55.7	51.4
05/11/2023 12:15	52.7	60.7	54.1	50.9
05/11/2023 12:30	52.9	58.8	54.2	51.1
05/11/2023 12:45	52.7	64.3	54.3	50.2
05/11/2023 13:00	52.3	59	53.8	50.4
05/11/2023 13:15	52.2	60.7	53.6	50.2
05/11/2023 13:30	52.2	59	53.8	50.1
05/11/2023 13:45	51.7	65.2	53.5	48.9
05/11/2023 14:00	54.2	60.2	56.1	51.2
05/11/2023 14:15	54.7	61	56.4	52.7
05/11/2023 14:30	54.2	67.2	55.6	52
05/11/2023 14:45	54.8	70.7	56.1	52.6
05/11/2023 15:00	55.2	60.5	56.5	53.4
05/11/2023 15:15	55	64	56.3	53.4
05/11/2023 15:30	55.9	60	57.2	54
05/11/2023 15:45	54.7	60.8	56	52.8
05/11/2023 16:00	56.5	62.5	58.1	54.8
05/11/2023 16:15	56.9	61.1	58.1	55.4
05/11/2023 16:30	57.5	62.4	58.7	56
05/11/2023 16:45	57.6	63.1	58.7	56.1
05/11/2023 17:00	57.5	64.1	58.6	56.2
05/11/2023 17:15	59	85.7	59	55.7
05/11/2023 17:30	57.4	69.3	58.7	55.6
05/11/2023 17:45	56.5	60.3	57.5	55.1
05/11/2023 18:00	57	65.1	58	55.6
05/11/2023 18:15	56.4	74.4	57.4	54.7
05/11/2023 18:30	56.5	74.3	58.1	53.4
05/11/2023 18:45	55.4	66.5	56.8	53.4
05/11/2023 19:00	55.3	61.8	56.6	53.6
05/11/2023 19:15	55.7	62	57.3	53.7
05/11/2023 19:30	55.6	65.3	57.1	53.4
05/11/2023 19:45	55	65.1	56.7	52.8
05/11/2023 20:00	55.6	63.3	57	53.7
05/11/2023 20:15	56.5	66.5	57.9	54.6
05/11/2023 20:30	54.7	61.1	55.9	53.1

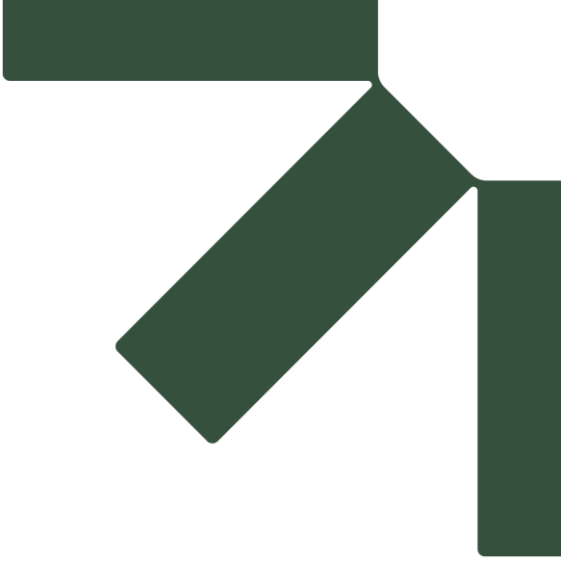


Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
05/11/2023 20:45	56.5	61.3	57.9	54.7
05/11/2023 21:00	55.9	61.3	57.1	54
05/11/2023 21:15	54.9	59.6	56.4	52.9
05/11/2023 21:30	53.7	60.4	55.2	51.6
05/11/2023 21:45	54.3	61.8	55.8	51.9
05/11/2023 22:00	55.2	61.2	56.6	52.9
05/11/2023 22:15	54.3	59.9	56.1	51.5
05/11/2023 22:30	53.6	60.9	55.2	51.1
05/11/2023 22:45	53.1	60.5	55.1	50
05/11/2023 23:00	53	61.4	55.2	49.3
05/11/2023 23:15	52.5	61.6	54.6	49.2
05/11/2023 23:30	51.9	59.4	54.2	48
05/11/2023 23:45	50.4	61.2	52.6	46.8
06/11/2023 00:00	51.2	60.4	54	46
06/11/2023 00:15	51.2	63.6	53.4	47.2
06/11/2023 00:30	49.6	59.5	52.2	45.4
06/11/2023 00:45	49.1	57.8	51.8	44.8
06/11/2023 01:00	48.8	56.8	51.4	43.9
06/11/2023 01:15	50	58.1	53.2	45.2
06/11/2023 01:30	47.6	55.9	50.6	41.4
06/11/2023 01:45	46.2	55.7	49	41
06/11/2023 02:00	47.7	59.1	50.3	43
06/11/2023 02:15	47.9	56.5	50.3	43.2
06/11/2023 02:30	46.5	55.5	49.5	41.2
06/11/2023 02:45	47.8	56.9	50.8	42.8
06/11/2023 03:00	49.3	58.3	52.1	43.9
06/11/2023 03:15	49	60.1	52.2	42.2
06/11/2023 03:30	49.1	62.4	52.2	42.5
06/11/2023 03:45	51.6	59.1	54.7	45.7
06/11/2023 04:00	50.7	57.9	53.3	46.3
06/11/2023 04:15	52.6	62.8	54.6	49.6
06/11/2023 04:30	52.7	60	54.7	49.1
06/11/2023 04:45	52.9	60.4	54.9	50.3
06/11/2023 05:00	53.8	60.2	55.7	50.7
06/11/2023 05:15	55.5	60.7	57	53.5
06/11/2023 05:30	56.5	61.5	57.9	54.8
06/11/2023 05:45	56.8	61.1	57.9	55.5
06/11/2023 06:00	56.9	61.5	58.1	55.2
06/11/2023 06:15	57.8	62.5	58.9	56.4
06/11/2023 06:30	59	62.8	60	57.7
06/11/2023 06:45	59.7	68.3	60.7	58.5
06/11/2023 07:00	59.5	63.9	60.4	58.3
06/11/2023 07:15	59.4	62.7	60.3	58.2
06/11/2023 07:30	59.2	64.6	60.2	57.8
06/11/2023 07:45	59.1	62.4	60	58
06/11/2023 08:00	58.5	62.1	59.5	57.2
06/11/2023 08:15	58.4	63	59.4	57.1
06/11/2023 08:30	58.8	69.3	59.9	57.1
06/11/2023 08:45	57.8	72.5	58.5	56.2
06/11/2023 09:00	57.8	71.9	58.5	55.6
06/11/2023 09:15	56.6	70.1	57.6	54.9
06/11/2023 09:30	57.4	73.6	57.3	54.1
06/11/2023 09:45	56	65	57.3	54
06/11/2023 10:00	55.9	61.9	57.1	54.1
06/11/2023 10:15	55.4	63.1	56.8	53.5
06/11/2023 10:30	56	60.9	57.3	54.3



Date and Time	L _{Aeq}	L _{AMax}	L _{A10}	L _{A90}
06/11/2023 10:45	55.8	66.6	57.2	54.1
06/11/2023 11:00	55.6	61.9	56.9	53.7
06/11/2023 11:15	55	64.8	56.5	52.7
06/11/2023 11:30	55.2	60.3	56.5	53.5
06/11/2023 11:45	55.6	68.9	57.1	53.2
06/11/2023 12:00	56.1	64.1	57.8	53.5





Appendix E Histograms

Noise Assessment

Dove Valley Park Plot 3b

Dove Valley Park Ltd

SLR Project No.: 403.067025.00001

7 July 2026

Figure E-1: Location 1 - L_{A90} (dB) Day Time Histogram

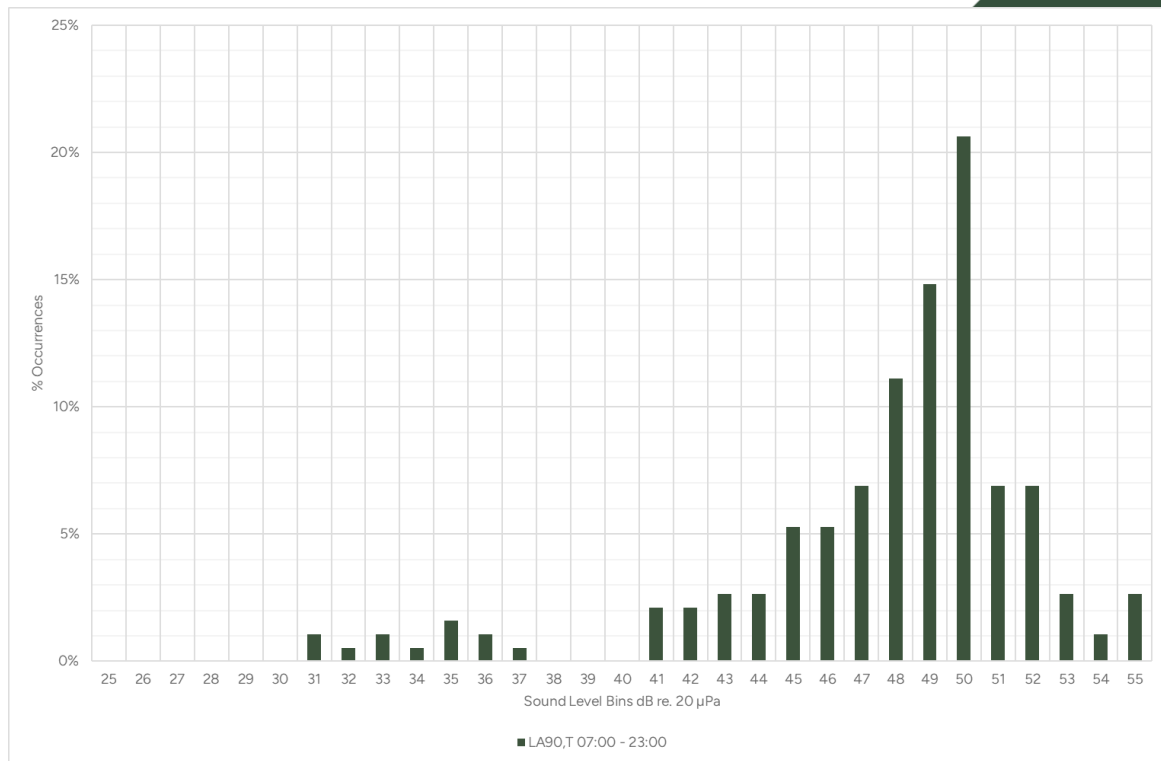


Figure E-2: Location 1 - L_{A90} (dB) Night-time Histogram

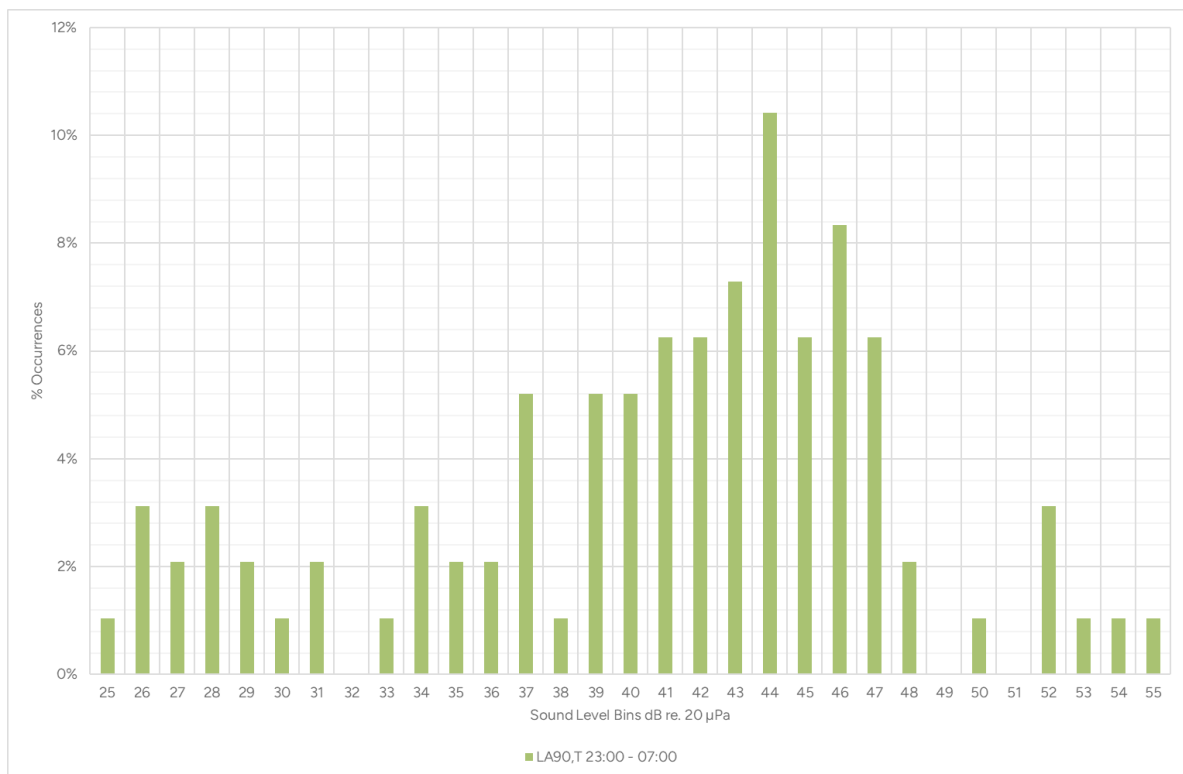


Figure E-3: Location 2 - L_{A90} (dB) Day Time Histogram

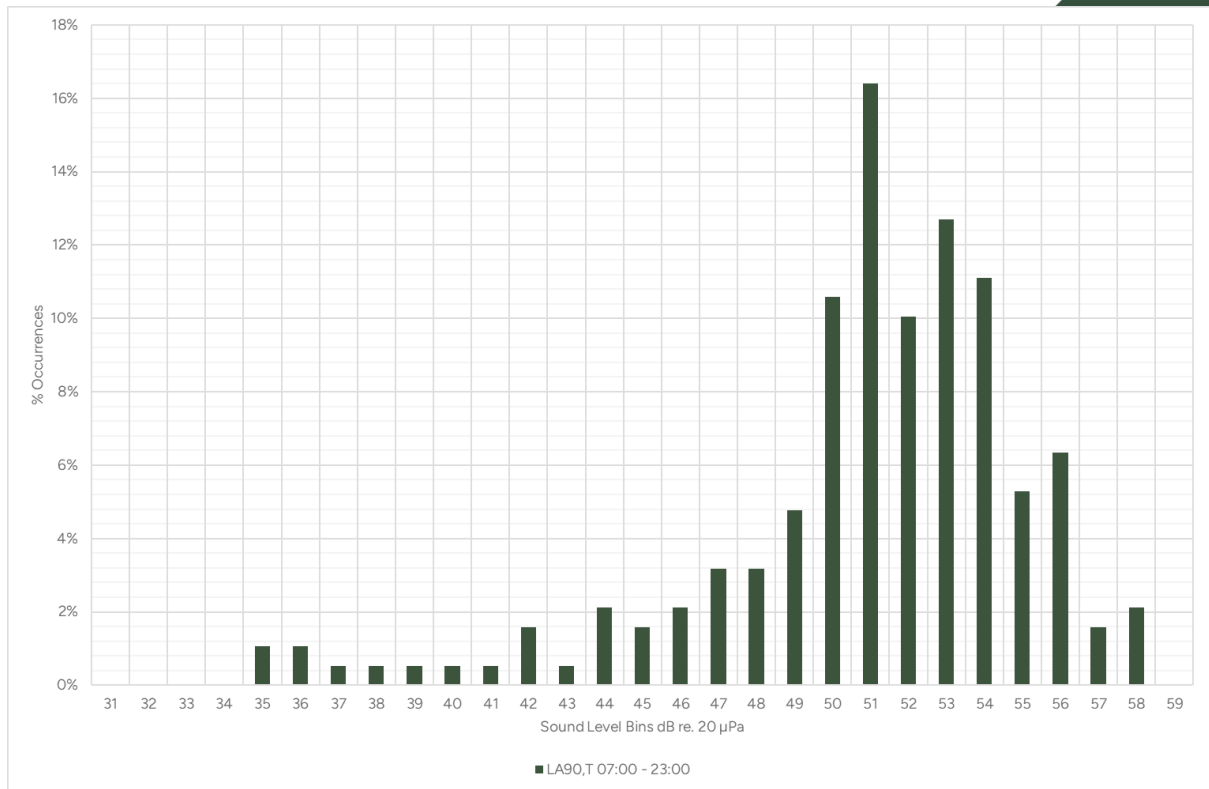
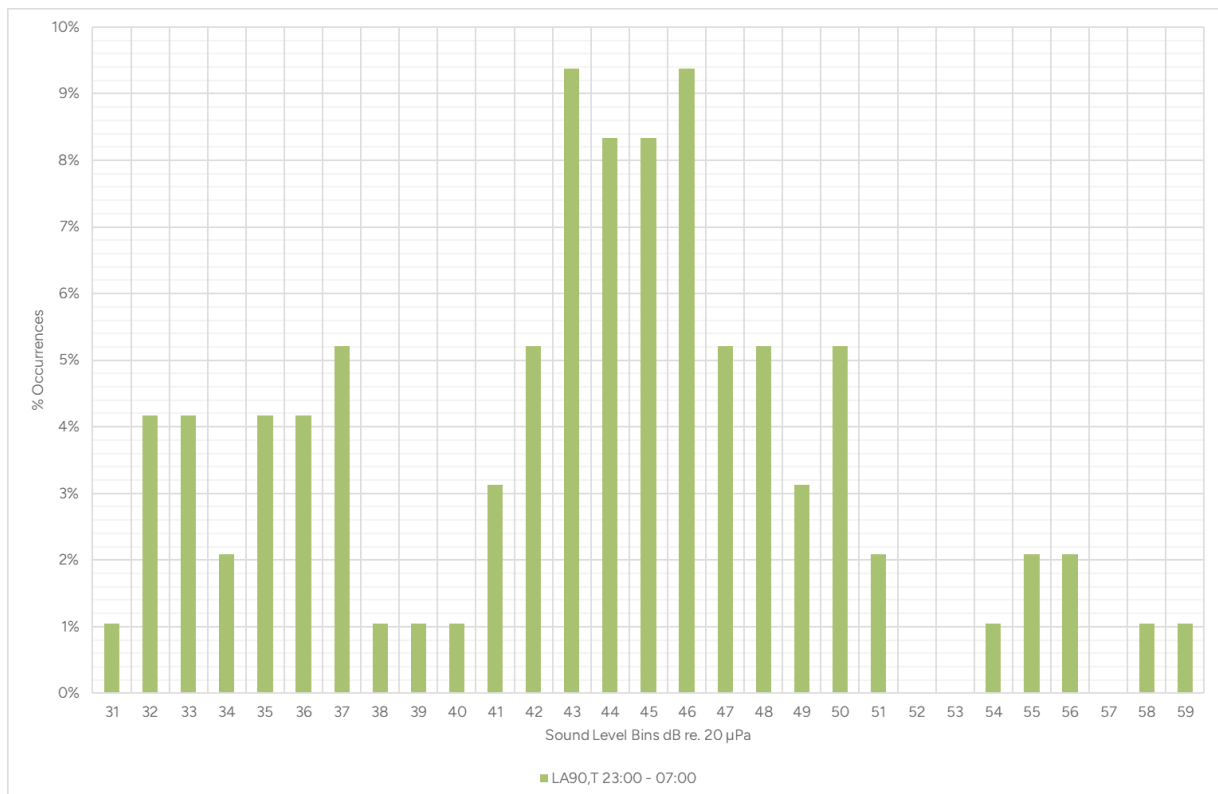


Figure E-4: Location 2 - L_{A90} (dB) Night-time Histogram





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