

RUNCORN

BS4142:2014+A1:2019 Noise Assessment

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1.0 Introduction

In 2022, Viridor appointed SLR Consulting Ltd (SLR) to undertake a noise assessment of the Energy from Waste Facility at Barlow Way, Runcorn. At the request of the Environment Agency (EA) the assessment was undertaken in accordance with the procedure set out in BS4142:2014+A1:2019 *Methods for rating and assessing industrial and commercial sound*. The assessment was presented in report 403.00036.00982.002, dated August 2022.

As it is understood that abatement has been fitted to the existing turbine hall fans and some 'noise dampening' material has been fitted to the tower pond surface, the assessment is required to be repeated. The mitigation measured included are summarised as follows.

- Noise dampening packing installed in Phase 1 cooling tower ponds (See Figure 1-1). Over 4000 modules have been installed with surface area of 1100m².
- New noise attenuator location- 8 fans have had attenuators installed across P1 & P2 Turbine halls (see Figure 1-2).

Figure 1-1
Cooling Tower Works

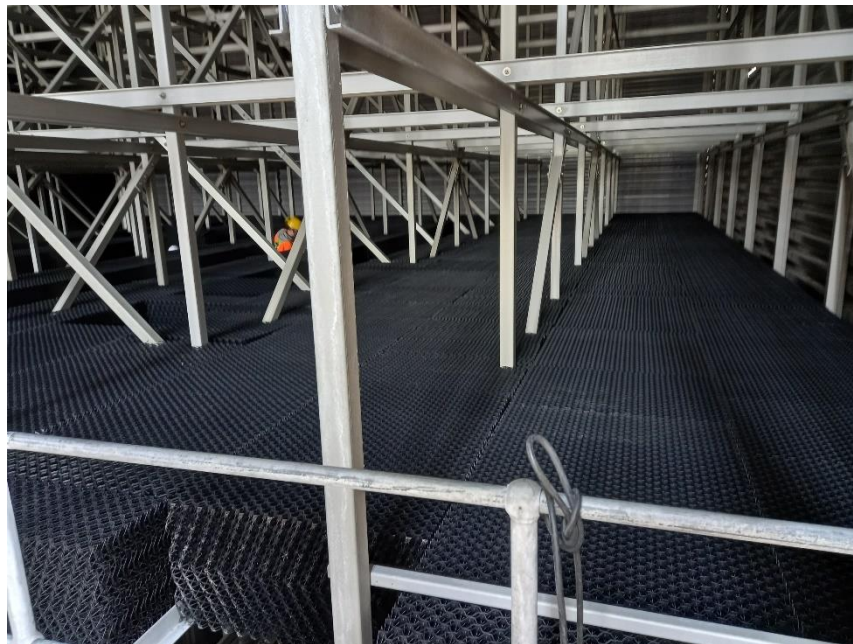


Figure 1-2
Turbine Hall Works



Figure 1-3
Turbine Hall Works as Installed



Figure 1-4
Turbine Hall Work Pre-Install



The report is structured as follows:

- Site and Development Description.
- Scope and Guidance.
- Baseline Noise Survey Results.
- Operational Noise Survey Results.
- BS4142:2014+A1:2019 assessment from measured data.
- BS4142:2014+A1:2019 assessment from modelled data.

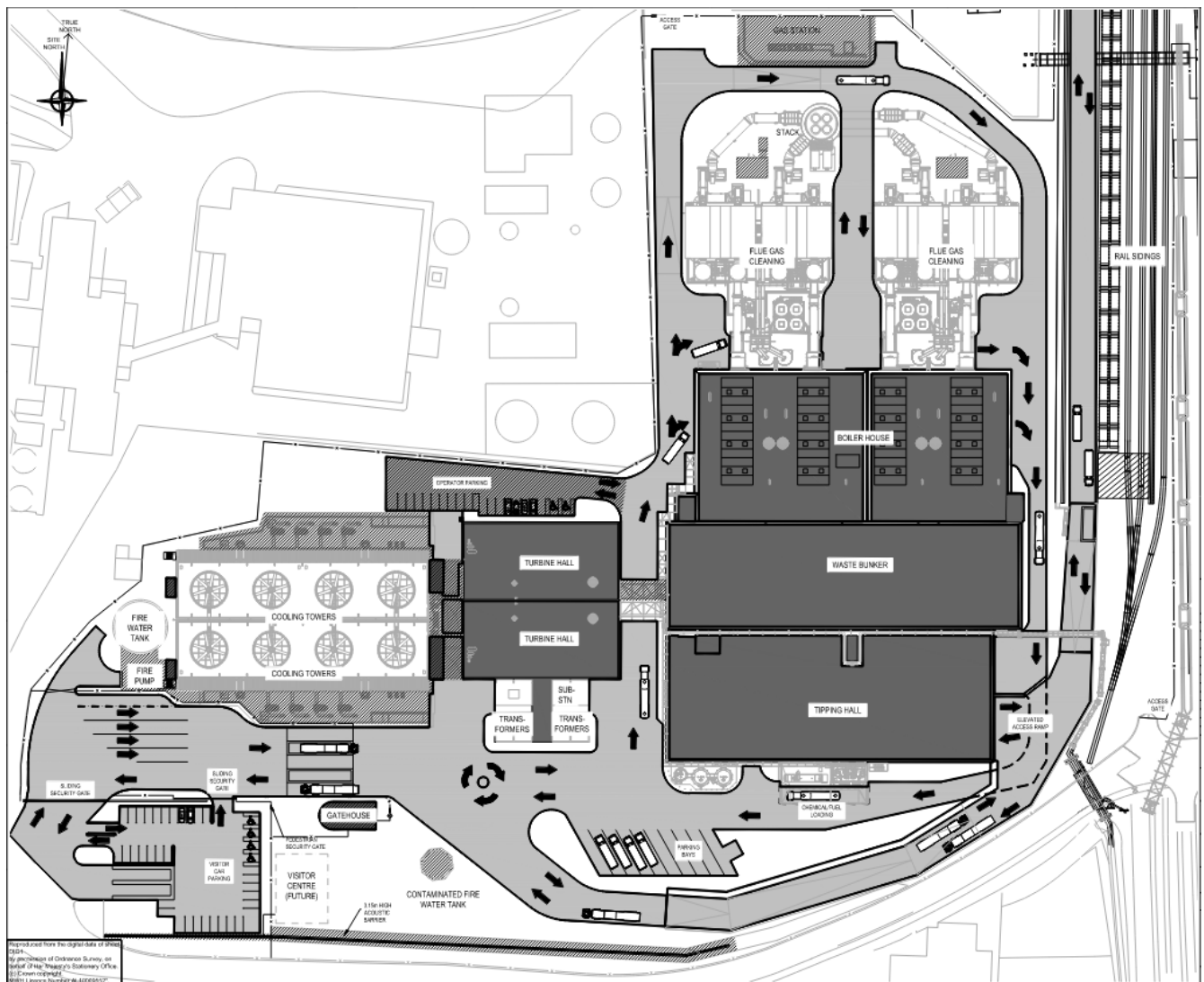
Whilst reasonable effort has been made to make this report easily understandable, it is technical in nature; to assist the reader, a glossary of terminology is included in **Appendix 01**.

2.0 Site Description

2.1 Site Overview

The EfW Facility subject to review in this document has been indicated in Figure 2-1 below. Of note, the rail sidings reside east of the Site, with the turbine hall and cooling towers to the west.

Figure 2-1
Site Overview



The imagery has provided that acoustic barriers exist at the Site along the south boundary of the Site, to the south of the (future) visitors centre and car parking. Further barriers have also been noted to exist onsite around the elevated access ramp and offsite to the south of Barlow Way.

3.0 Scope and Guidance

3.1 Environment Agency

The Environment Agency (EA) released the guidance document *Noise and vibration management: environmental permits* (NVM) in July 2021, replacing the previous guidance presented in *Horizontal Guidance for Noise (H3) parts 1 and 2*. The NVM details when a noise assessment is required, the competency required to undertake an assessment and how to carry out a noise impact assessment.

The NVM references BS4142:2014+A1:2019 as the appropriate assessment methodology.

The NVM outlines how context should be taken into account in the assessment and notes that “*Whilst context allows you to interpret impact thresholds (to a degree), there are practical limits to the extent of the interpretation. It is unlikely you could adjust the assessment outcome beyond the next band (for example, modifying a BS 4142 outcome of more than 10dB to be less than an ‘adverse impact’).*”

Determining the outcome of the assessment the following should be considered:

- weekdays rather than weekends.
- what the sound ‘means’ – meaningful sound is one that conveys an unpleasant meaning beyond its mere acoustic content, for example noise from an abattoir.
- time of day.
- the absolute sound level.
- where the sound occurs.
- new industry or new residences.
- intrinsic links between the source and receptor, for example the source is the resident’s place of work.
- local attitudes.
- the residual acoustic environment.
- the land use at the receptor (for example, gardens rather than yards).
- the exceedance (traditional BS 4142).
- whatever else might be particular to that individual situation.

Based on the results of the BS4142:2014+A1:2019 assessment the NVM has three distinct requirements as detailed in Table 3-1.

Table 3-1
NVM Assessment

NVM Result	BS4142 Descriptor	Next Stage
Unacceptable level of audible or detectable noise	The closest corresponding BS 4142 descriptor is 'significant adverse impact'	You must take further action or you may have to reduce or stop operations. The environment agencies will not issue a permit if you are likely to be operating at this level.
Audible or detectable noise	The closest corresponding BS 4142 descriptor is 'adverse impact'	Your duty is to use appropriate measures to prevent or, where that is not practicable, minimise noise. You are not in breach if you are using appropriate measures. But you will need to rigorously demonstrate that you are using appropriate measures.
No noise, or barely audible or detectable noise	The closest corresponding BS 4142 descriptor is 'low impact or no impact'	Low impact does not mean there is no pollution. However, if you have correctly assessed it as low impact under BS 4142, the environment agencies may decide that taking action to minimise noise is a low priority.

3.2 BS4142:2014+A1:2019

British Standard 4142:2014+A1:2019 *Methods for rating and assessing industrial and commercial sound* is intended to be used to assess the potential adverse impact of sound, of an industrial and/or commercial nature, at nearby noise-sensitive receptor locations within the context of the existing sound environment.

Where the specific sound contains tonality, impulsivity and/or other sound characteristics, penalties should be applied depending on the perceptibility. For tonality a correction of either 0, 2, 4 or 6dB should be added and for impulsivity a correction of either 0, 3, 6 or 9dB should be added. If the sound contains specific sound features which are neither tonal nor impulsive, a penalty of 3dB should be added.

In addition, if the sound contains identifiable operational and non-operational periods, that are readily distinguishable against the existing sound environment, a further penalty of 3dB may be applied.

The assessment of impact contained in BS4142:2014+A1:2019 is undertaken by comparing the sound rating level, i.e. the specific sound level of the source plus any penalties, to the measured representative background sound level immediately outside the noise-sensitive receptor location. Consideration is then given to the context of the existing sound environment at the noise-sensitive receptor location to assess the potential impact.

Once an initial estimate of the impact is determined, by subtracting the measured background sound level from the rating sound level, BS4142:2014+A1:2019 states that the following should be considered:

- typically, the greater the difference, the greater the magnitude of the impact;
- a difference of around +10dB or more is likely to be an indication of a significant adverse impact, depending on the context;
- a difference of around +5dB is likely to be an indication of an adverse impact, depending on the context; and

- the lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. It is an indication that the specific sound source has a low impact, depending on the context.

BS4142:2014+A1:2019 notes that:

“Adverse impacts include, but are not limited to, annoyance and sleep disturbance. Not all adverse impacts will lead to complaints and not every complaint is proof of an adverse impact.”

BS4142:2014+A1:2019 outlines guidance for the consideration of the context of the potential impact including consideration of the existing residual sound levels, location and/or absolute sound levels.

To account for the acoustic character of proposed sound sources, BS4142:2014+A1:2019 provides the following with respect to the application of penalties to account for *“the subjective prominence of the character of the specific sound at the noise-sensitive locations and the extent to which such acoustically distinguishing characteristics will attract attention”*.

- **Tonality** – *“For sound ranging from not tonal to predominantly tonal the Joint Nordic Method gives a correction of between 0dB and +6dB for tonality. Subjectively, this can be converted to a penalty of 2dB for a tone which is just perceptible at the noise receptor, 4dB where it is clearly perceptible and 6dB where it is highly perceptible;*
- **Impulsivity** – *A correction of up to +9dB can be applied for sound that is highly impulsive, considering both the rapidity of the change in sound level and the overall change in sound level. Subjectively, this can be converted to a penalty of 3dB for impulsivity which is just perceptible at the noise receptor, 6dB where it is clearly perceptible, and 9dB where it is highly perceptible;*
- **Intermittency** – *When the specific sound has identifiable on/off conditions, the specific sound level ought to be representative of the time period of length equal to the reference time interval which contains the greatest total amount of on time. If the intermittency is readily distinctive against the residual acoustic environment, a penalty of 3dB can be applied; and*
- **Other Sound Characteristics** – *Where the specific sound features characteristics that are neither tonal nor impulsive, though otherwise are readily distinctive against the residual acoustic environment, a penalty of 3dB can be applied.”*

Finally, BS4142:2014+A1:2019 outlines guidance for the consideration of the context of the potential impact including consideration of the existing residual sound levels, location and/or absolute sound levels.

4.0 Baseline Sound Level

4.1 Clarks Terrace

4.1.1 Clarks Terrace Monitoring Location

Example 10 from BS 4142 Annex A has advocated the use of a surrogate (or proxy) measurement location in the determination of pre-development sound levels where commercial operations cannot halt for the purposes of assessment.

The placement of a surrogate location for Clarks Terrace has undergone due consideration in the local area where required as a basis for defining pre-development environmental sound levels for BS 4142 assessment. Inputs to its positioning have included sources that contribute to the acoustic environment in the absence of the EfW Facility; observed as road and air traffic, and noise from the saltworks.

- Clarks Terrace Surrogate: The Clarks Terrace surrogate position was at Mersey View. The position was selected on the basis that the buildings on Mersey View were shielding the meter from noise from the EfW Site, but the meter was still in line with the saltworks.

At the location measurements were undertaken at 1.5m above the ground and 4m above the ground.

The location has been illustrated in Figure 4-1 below, to highlight the surrogate measurement position used within this report, for defining background and residual sound levels for Clarks Terrace.

Figure 4-1
Surrogate Measurement Location



4.1.2 Clarks Terrace Baseline Survey Equipment

The measurements were carried out using the equipment listed in Table 4-1. All measurement instrumentation was calibrated before and after the measurements. The calibration chain is traceable via the United Kingdom Accreditation Service to National Standards held at the National Physical Laboratory. No significant drift was observed.

Table 4-1
Noise Monitoring Equipment

Location	Description	Serial No.
1 (1.5 m height)	Cirrus CR:171B Class 1 Sound Level Meter	G061094
	Cirrus CR:515 Acoustic Calibrator	72210
1 (4 m height)	Cirrus CR:171B Class 1 Sound Level Meter	G080284
	Cirrus CR:515 Acoustic Calibrator	59336

The equipment listed in Table 4-1 conforms to the requirements of a Type 1 meter as prescribed in BS 7580-1:1997 *Specification for the verification of sound level meters. Comprehensive procedure*.

4.1.3 Clarks Terrace Baseline Weather Conditions

During both the daytime and night-time surveys, the weather was suitable for noise monitoring being dry and with wind speeds of less than 5ms^{-1} .

4.1.4 Clarks Terrace Baseline Sound Parameters

The noise monitoring was undertaken between the following periods:

- Thursday 5th May 2022 23:00 – Friday 6th May 2022 02:00
- Friday 6th May 2022 10:00 – 12:00

At the location a microphone was placed at 1.5m and 4m above the ground, in free-field conditions, and the following noise level indices being recorded:

- $L_{Aeq,T}$ – The A-weighted equivalent continuous noise level over the measurement period, T .
- $L_{A90,T}$ – The A-weighted noise level exceeded for 90% of the measurement period, T . This parameter is often used to describe background noise.
- L_{AFmax} – The A-weighted, fast time weighted, maximum noise event during a given period.

Photographs of the meters in situ can be seen in **Appendix 02**.

4.1.5 Clarks Terrace Baseline Survey Results

A summary of the survey results have been presented in Table 4-2 and Table 4-3 below.

Table 4-2
Survey Results dB, 1.5 m above ground

Location	Period, T	$L_{Aeq,T}$	$L_{AF90,15min}$ Range	L_{AFmax}
1: Clarks Terrace	Night-Time: 5th May 2022 23:00-02:00	45	38 – 39	74
	Daytime: 6th May 2022 10:00-12:00	52	45 – 47	76

Table 4-3
Survey Results dB, 4 m above ground

Location	Period, T	$L_{Aeq,T}$	$L_{AF90,15min}$ Range	L_{AFmax}
1: Clarks Terrace	Night-Time: 5th May 2022 23:00-02:00	46	40 – 42	71
	Daytime: 6th May 2022 10:00-12:00	52	42 – 45	77

Detailed measurement data can be provided upon request. Histograms of the measured L_{A90} data for the following periods at each Location can be seen in **Appendix 03**.

- Night-Time (23:00 – 02:00)
- Daytime (10:00 – 12:00)

4.1.6 Clarks Terrace Baseline Background Sound Levels

Table 4-4 provides a summary of the baseline noise levels that may be adopted for a BS4142:2014+A1:2019 assessment.

Table 4-4
Clarks Terrace Baseline Background Sound Levels

Location	Daytime(07:00 to 23:00 hours)		Night-time (23:00 to 07:00 hours)	
	$L_{Aeq,T}$ (dB)	$L_{A90,T}$ (dB)	$L_{Aeq,T}$ (dB)	$L_{A90,T}$ (dB)
Clarks Terrace 1.5m	52	45	45	38
Clarks Terrace 4m	52	42	46	40

4.2 Westfield Road

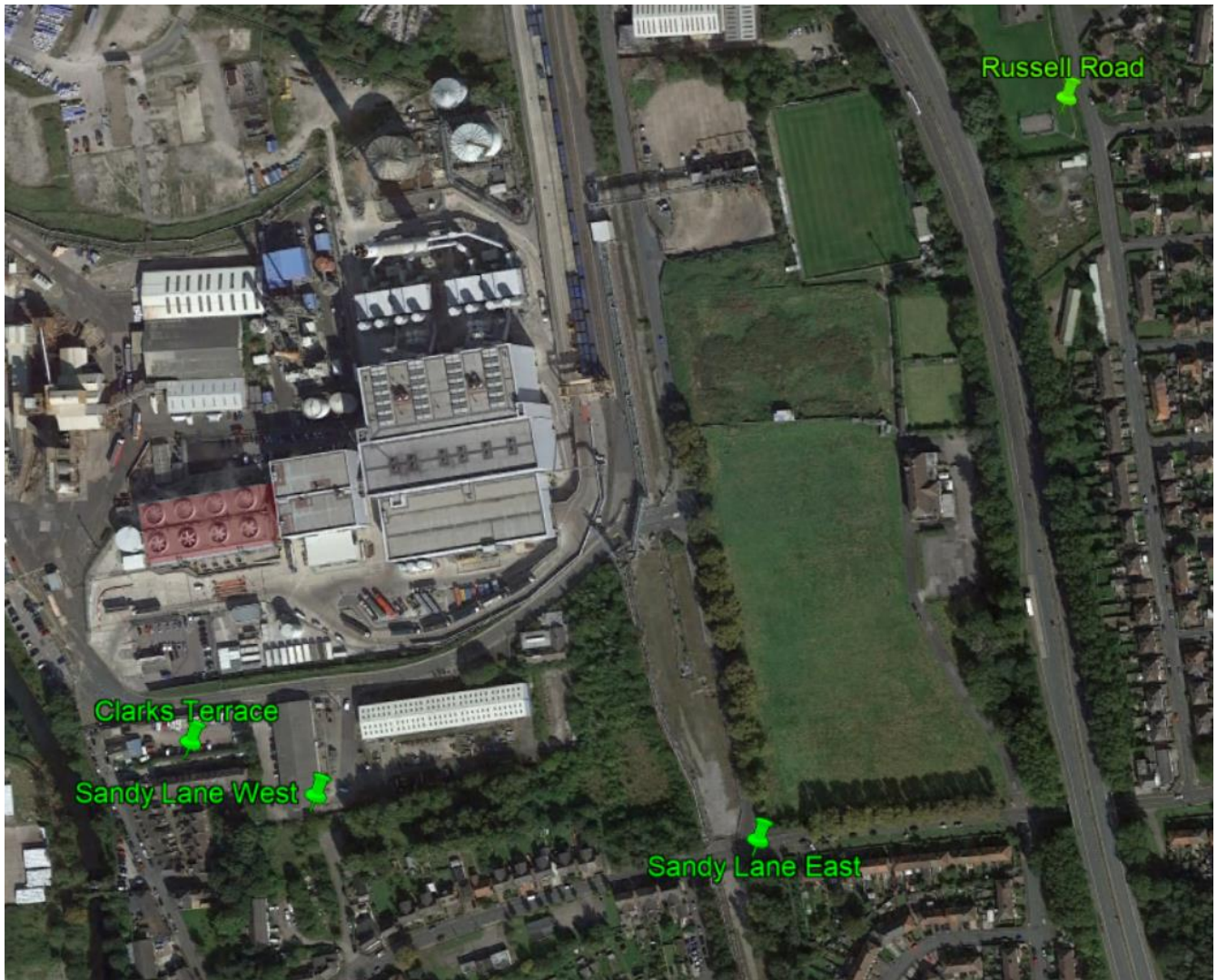
4.2.1 Westfield Road Monitoring Location

Baseline noise levels were determined by a field study in 2006.

The field study comprised one, long-term unattended noise survey and four short-term attended surveys at separate locations in the area. The noise monitors were installed at locations that were representative of the

nearest NSRs to the EfW Facility, which are habitable dwellings to the south and east of the site. The survey locations are shown in Figure 4-2.¹

Figure 4-2
2006 Baseline Noise Survey Locations



4.2.2 Westfield Road Baseline Monitoring Equipment

The 2006 ES stated that instrumentation was calibrated both prior to and immediately following the surveys to ensure that no significant drift had occurred over the survey period. All instrumentation was within the manufacturers' periods of calibration, as specified in BS 7445.

4.2.3 Westfield Road Baseline Sound Parameters

The long-term survey logged measurements over a period of 10 days. For the short-term surveys, four 15-minute measurements were made at each location - two during daytime periods and two during night-time periods. All surveys were undertaken at free field locations with the microphone at a height of 1.5 m above ground level.

¹ This Report will refer to the Russell Road and the Sandy Lane West locations only.

At the location and the following noise level indices being recorded:

- $L_{Aeq,T}$ – The A-weighted equivalent continuous noise level over the measurement period, T .
- $L_{A90,T}$ – The A-weighted noise level exceeded for 90% of the measurement period, T . This parameter is often used to describe background noise.
- L_{AFmax} – The A-weighted, fast time weighted, maximum noise event during a given period.

4.2.4 Westfield Road Baseline Survey Results

Long-term – Sandy Lane (west)

The survey was undertaken from Monday 10 October to Wednesday 18 October 2006 using a Rion NL-32 Type 1 sound level meter. The survey was undertaken at the site boundary with the car park to the north of Sandy Lane. This area of the site was used for storing parts and materials. There are residential areas on Sandy Lane and Clarks Terrace to the south and west, respectively. There is the salt works to the north of the survey location and site offices and a storage area to the east. Baseline noise levels were dominated by noise from the Salt Works. The results from the long-term survey have been provided in Table 4-5 below.

Table 4-5
Summary of Long-term Noise Survey Results – Sandy Lane (west)

Date	Day	Daytime		Night-time	
		(07:00 to 23:00 hours)		(23:00 to 07:00 hours)	
		$L_{Aeq,16h}$ (dB)	L_{A90} (dB)	$L_{Aeq,16h}$ (dB)	L_{A90} (dB)
09/10/2006	Monday	53	50	52	50
10/10/2006	Tuesday	56	52	53	51
11/10/2006	Wednesday	53	49	51	48
12/10/2006	Thursday	54	51	51	49
13/10/2006	Friday	54	52	50	48
14/10/2006	Saturday	54	51	51	49
15/10/2006	Sunday	54	52	51	49
16/10/2006	Monday	56	55	51	48
17/10/2006	Tuesday	55	52	50	47
18/10/2006	Wednesday	55	52	52	49
Weekdays*		55	52	51	49
Saturday*		54	51	51	49
Sunday*		54	52	51	49
All Week*		54	52	51	49

Short-term 4 – Russell Road

Russell Road has been used as a proxy location for Westfield Road. The data has been obtained from a 2006 short-term survey conducted at the junction of Russell Road and Hillside Avenue during the daytime and night-time. A summary of results have presented in Table 4-6 below.

Table 4-6
Summary of Short-Terms measured Daytime and Night-time Noise Levels

	Start Time	Duration	Day	L _{Aeq,15min} (dB)	L _{A90} (dB)
Daytime	11:45:00	15mins	Tuesday 10th	66	59
	16:30:00	15mins	Wednesday 11th	66	62
Night-Time	03:15:00	15mins	Tuesday 10th	50	46
	04:08:00	15mins	Wednesday 11th	54	47

4.2.5 Westfield Road Baseline Background Sound Levels

Table 4-7 provides a summary of the baseline noise levels that may be adopted for a BS4142:2014+A1:2019 assessment.

The full day and night period levels at the short-term locations have been estimated based upon a comparison with the corresponding simultaneous measurement at the long-term location.

The differences between values at the long-term and short-term locations are applied as an adjustment to the measured levels at the long-term location to obtain estimates of the noise levels throughout the long-term survey period. The daytime, night-time, L_{Aeq} and L_{A90} were calculated separately.

Table 4-7
Summary of Baseline Noise Levels to use for Westfield Road

Location	Daytime(07:00 to 23:00 hours)		Night-time (23:00 to 07:00 hours)	
	L _{Aeq,T} (dB)	L _{A90,T} (dB)	L _{Aeq,T} (dB)	L _{A90,T} (dB)
Westfield Road	67	61	53	46

4.3 Baseline Uncertainty

In accordance with BS4142:2014+A1:2019 assessment 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 noise-sensitive receptors to the site.
- Measurements were undertaken using a suitable logging period considered to provide representative operational sound levels.
- Instrumentation was appropriate and in accordance with Section 5 of BS4142:2014+A1:2019.

5.0 Operational Sound Survey

5.1 Operational Survey Locations

Sound levels were measured between Wednesday 27th September and Monday 2nd October 2023 at two locations around the Site as shown on Figure 5-1 below. Photographs of each monitoring position can be seen in **Appendix 04**.

The coordinates of each Receptor are as follows:

- Westfield Road: (53.3332415, -2.7505818)
- Clarks Terrace: (53.3278665, -2.7565903)

Figure 5-1
Operational Noise Survey Locations



At the survey locations, the microphones were placed 1.5m and 4m above the local ground level in free-field conditions, i.e. at least 3.5m 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.

5.2 Operational Survey Equipment

The sound monitoring equipment used during the survey is detailed in Table 5-1. All measurement instrumentation was calibrated before and after the measurements. No significant drift was observed. The calibration chain is traceable via the United Kingdom Accreditation Service to National Standards held at the National Physical Laboratory.

Table 5-1
Survey Equipment

Location	Equipment	Serial Number
Clarks Terrace (1.5m)	Rion NL-52 Class 1 Sound Level Meter	00331823
	Rion NC-74 Acoustic Calibrator	34336013
Clarks Terrace (4m)	Cirrus CR:171B Class 1 Sound Level Meter	G079816
	Cirrus CR:515 Acoustic Calibrator	81268
Westfield Road (1.5m)	Cirrus CR:171B Class 1 Sound Level Meter	G301839
	Cirrus CR:515 Acoustic Calibrator	93674
Westfield Road (4m)	Cirrus CR:171B Class 1 Sound Level Meter	G0302667
	Cirrus CR:515 Acoustic Calibrator	94806

5.3 Operational Weather Conditions

During the survey the weather conditions were monitored using a weather station. The full data can be seen in **Appendix 05**. A summary of the weather conditions during the survey are as follows:

The survey covered a period of weather conditions conducive with BS 4142 including an absence of rainfall and wind speeds less than 5m/s. During the first evening of the assessment Wednesday 27th September, few periods showed minor exceedance with wind speed greater than 5m/s, where in the avoidance of doubt, measurements until 23:00 have been subsequently discounted from this assessment.

5.4 Operational Sound Locations

At each monitoring location the microphones were set at 1.5m and 4m above the ground in free-field conditions, i.e., at least 3.5m from the nearest vertical, reflecting surface.

5.5 Operational Sound Level Results

A summary of the survey results at each Location is shown in Table 5-3. The full survey results are in **Appendix 05**. The recorded data on the Wednesday will not be used in the assessment as on set up windspeeds were noted to be elevated on this day. The data is presented but crossed out.

Table 5-2
Summary of Measured Sound Levels, free-field, dB

Location	Date	Period	L _{Aeq,T}	Median L _{A90}	Median L _{A10}	L _{Amax}
Clarks Terrace (1.5m)	Wednesday 27 th September 2023	Day	53.9	50.6	55.1	89.5
		Night	49.1	46.7	49.5	70.0
	Thursday 28 th September 2023	Day	51.0	47.4	51.8	79.9
		Night	48.4	47.2	48.6	69.8
	Friday 29 th September 2023	Day	53.6	48.3	53.0	85.6
		Night	47.3	45.4	46.9	77.0
	Saturday 30 th September 2023	Day	51.2	46.6	51.6	81.3
		Night	48.4	45.5	47.4	67.6
	Sunday 1 st October 2023	Day	50.9	46.6	49.5	90.5
		Night	47.4	45.8	47.0	72.6
	Monday 2 nd October 2023	Day	53.3	46.6	54.5	85.8
Clarks Terrace (4m)	Wednesday 27 th September 2023	Day	55.3	52.2	56.7	86.2
		Night	51.4	49.4	52.0	80.9
	Thursday 28 th September 2023	Day	53.2	50.1	54.2	83.9
		Night	51.2	50.3	51.3	69.2
	Friday 29 th September 2023	Day	54.6 ²	50.9	55.1	90.4
		Night	50.0	48.8	50.0	71.9
	Saturday 30 th September 2023	Day	53.5	49.9	53.9	81.4
		Night	52.0	48.9	50.5	73.1
	Sunday 1 st October 2023	Day	52.3	49.8	52.2	89.8
		Night	51.0	48.9	49.9	83.5

² Noise reading at 10:00 on the 29th September disregarded as erroneously high.

Location	Date	Period	L _{Aeq,T}	Median L _{A90}	Median L _{A10}	L _{Amax}
	Monday 2 nd October 2023	Day	53.9 ³	49.9	56.3	91.2
Westfield Rd (1.5m)	Wednesday 27 th September 2023	Day	62.1	56.5	64.8	84.2
		Night	-	-	-	-
	Thursday 28 th September 2023	Day	-	-	-	-
		Night	-	-	-	-
	Friday 29 th September 2023	Day	-	-	-	-
		Night	-	-	-	-
	Saturday 30 th September 2023	Day	-	-	-	-
		Night	-	-	-	-
	Sunday 1 st October 2023	Day	-	-	-	-
		Night	-	-	-	-
	Monday 2 nd October 2023	Day	-	-	-	-
Westfield Rd (4m)	Wednesday 27 th September 2023	Day	64.6	57.6	67.8	90.1
		Night	58.7	50.7	58.9	78.0
	Thursday 28 th September 2023	Day	65.1 ⁴	58.0	68.4	87.2
		Night	58.2 ⁵	47.9	58.2	89.9
	Friday 29 th September 2023	Day	63.3	56.5	66.6	82.8
		Night	55.5	45.8	57.1	78.9
	Saturday 30 th September 2023	Day	62.3	53.8	65.5	88.2
		Night	56.8	48.4	59.3	78.8
	Sunday 1 st October 2023	Day	62.4	51.7	65.6	94.9
		Night	57.5	43.6	55.2	78.4
	Monday 2 nd October 2023	Day	64.6	55.8	67.7	82.4

³ Noise reading at 08:00 on the 2nd October disregarded as erroneously high.

⁴ Noise reading between 19:15 and 23:00 on the 28th September disregarded as erroneously high.

⁵ Noise reading at 23:00 on the 28th September disregarded as erroneously high.

5.6 Operational Soundscape

The soundscape at each monitoring location was as follows:

- Clarks Terrace – Plant noise from EfW Facility site audible, with contribution from local traffic, garage operations and airplane flyovers.
- Westfield Road – Road traffic noise from Weston Point Expressway dominant, with contribution from local road traffic and airplane flyovers. Plant noise from EfW Facility site audible during lull in traffic.

5.7 Operational Uncertainty

In accordance with BS4142:2014+A1:2019 assessment 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 noise-sensitive receptors to the site.
- Measurements were undertaken using a suitable logging period considered to provide representative operational 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 BS4142:2014+A1:2019.

6.0 BS4142:2014+A1:2019 from Measurement

6.1 Measured Specific Sound Level

To undertake the assessment the specific sound level from the Site at the receptor location needs to be determined.

This level is calculated by logarithmically subtracting the measured non-operational L_{Aeq} level (residual level) from the measured operational(ambient level) L_{Aeq} level as shown below.

- Specific sound level from the Site = $10 \log_{10} ((10^{L_{Aeq \text{ ambient}/10})} - (10^{L_{Aeq \text{ residual}/10}))$

This calculation can only be done when the difference between the ambient sound level and the residual sound level is equal to or greater than +3dB(A) in accordance with BS 4142.

Where this calculation cannot be undertaken, the text is indicated in red, and no calculation is presented.

Table 6-1
Calculated Specific Noise Level dB

Location	Period	Height (m)	L_{Aeq} Ambient/Operational ⁶	L_{Aeq} Residual/ Non-Operational	L_{Aeq} Specific Sound Level
Clarks Terrace	Daytime	1.5	54	52	/
		4.0	55	52	52.0
	Night-Time	1.5	48	45	45.0
		4.0	52	46	50.7
Westfield Road	Daytime ⁷	1.5	63	67	-
		4.0	65	67	-
	Night-Time	1.5	56	53	53.0
		4.0	58	53	56.3

6.2 Sound Character Correction

The character of each noise source, and the sound characteristic that will be applied in the BS4142:2014+A1:2019 assessment are as follows:

- Tonality: At each Receptor the measured noise levels have been assessed in accordance with BS4142:2014+A1:2019 Annex C to identify the presence of any tones. The results at each location are as follows:
 - Clarks Terrace at 1.5m: Meter did not measure octave data.

⁶ For this assessment the rounded higher values in Table 5-3 have been used.

⁷ The meter at this location only recorded during the daytime on the 27th. In the August 2022 SLR Report the difference between the measured $L_{Aeq,T}$ level at 4m compared to 1.5 at Table 6-1. was 1.9dB. Therefore, the data at 4m has been corrected by minus 2dB(A).

- Clarks Terrace at 4m: Over 485 measurements 7 tones were identified.
- Westfield Road at 1.5m: Over 21 measurements no tones were identified.
- Westfield Road at 4m: Over 482 measurements no tones were identified.

As a tone was identified on only a very small number of occasions it is not considered that sound from the EfW Facility is tonal at the Noise Sensitive Receptors. No tonal character correction is considered necessary.

- Impulsivity: An assessment of impulsive noise from the Railhead is presented in SLR Report *Action Plan to Identify and Mitigate Impulsive Noise* (Ref: 403.00036.00982 V3 dated March 2022). The results at each location are as follows:
 - Clarks Terrace. Not assessed in the SLR Report but no impulsive sound was “heard” by the surveyor at Clarks Terrace. No Character correction required.
 - Westfield Road: Impulsive sound from the EfW Facility was not identified.

No impulsive character correction is considered necessary.

- Other sound characteristics: Where the specific sound features characteristics that are neither tonal nor impulsive but is readily distinctive above the residual sound level a penalty of 3dB can be applied. The results at each location are as follows:

- Clarks Terrace: Sound from the EfW Facility is part of the soundscape at Clarks Terrace.
- Westfield Road: Sound from the EfW Facility is part of the soundscape at Westfield Road.

As sound from the EfW Facility is readily distinctive at Clarks Terrace and Westfield Road, a 3dB(A) character correction has been added to the specific sound levels at these two Receptors.

- Intermittentness: As noise sources at the EfW Facility are typically continuous (except for HGV movements which are not limited to operations at the EfW Facility) no character correction for intermittency is deemed necessary at Clarks Terrace. At Westfield Road sound from the railhead is intermittent and a 3dB(A) character correction is considered necessary.

The following character corrections will be applied to the specific sound level at each receptor:

- Clarks Terrace 3dB(A)
- Westfield Road 6dB(A)

6.3 Measured Rating Level and Assessment

The character corrections described in Section 6-2 have been added to the predicted sound levels shown in Table 6-1 to derive the rating levels at each of the nearest noise-sensitive receptors.

The results of the BS4142:2014 +A1:2019 assessment are shown in Table 6-2. In accordance with the standard, the rating levels and the representative background sound levels have been rounded to the nearest decibel.

For easy reference with the August 2022 pre-mitigation Report, (where a comparison can be made), the rating level, and the difference between the background sound level and the pre-mitigated rating level, are shown in red brackets. This data can be referenced in Table 6-2 in the 2022 Report.

Table 6-2
BS4142:2014+A1:2019 Assessment

Receptor	Assessment	Predicted Specific Sound Level, $L_{Aeq,T}$	Predicted Rating Level, $L_{Ar,T}$	Background Sound Level L_{A90} ⁸	Difference between Background Sound Level and Rating Level
Clarks Terrace	Daytime 1.5m	-	-	-	-
	Daytime 4m	52	55 (60)	42	+13 (+18)
	Night-Time 1.5m	45	48 (56)	38	+10 (+18)
	Night-Time 4m	51	54 (57)	40	+14 (+17)
Westfield Road	Daytime 1.5m	-	-	-	-
	Daytime 4m	-	-	-	-
	Night-Time 1.5m	53	59	46	+13
	Night-Time 4m	56	62 (61)	46	+16 (+15)

With reference to BS4142:2014+A1:2019:

- Clarks Terrace Daytime:** The difference between the baseline background sound level and the mitigated rating level is 13dB(A) above the baseline background sound level at Clarks Terrace. This is an indication of a significant adverse noise impact in accordance with BS4142. It is however an improvement on the pre mitigated August 2022 Report where during the day the comparable dataset had a plus 18dB(A) difference. The reduction in the rating level from 60dB(A) to 55dB(A) is a significant improvement.
- Clarks Terrace Night-Time:** The difference between the baseline background sound level and the mitigated rating level is 10dB(A) above the baseline background sound level at Clarks Terrace at a height of 1.5m. This is an indication of a significant adverse noise impact in accordance with BS4142. It is however an improvement on the pre mitigated August 2022 Report, where during the night at 1.5m the comparable dataset had a plus 18dB(A) difference. The reduction in the rating level from 56dB(A) to 48dB(A) is a significant improvement. At 4m there is also a similar reduction in the difference between the rating level and the baseline background sound level from plus 17dB(A) to plus 14dB(A), a 3dB(A) reduction in the rating level, a significant improvement.
- Westfield Road:** The difference between the baseline background sound level and the rating level is between 13dB(A) and 16dB(A) above the baseline background sound level at Westfield Road. This is an indication of significant adverse noise impact in accordance with BS4142. The results are consistent with the unmitigated Report where the comparable dataset was 15dB(A) above the baseline background sound level.

⁸ See Table 4-6

6.4 Discussion

Whilst the BS4142 assessment has indicated that the rating level of the EfW Facility is significantly above the baseline background sound level there is uncertainty in the assessment as:

- The baseline noise level at Clarks Terrace was measured over a short period and was at a position where noise from other noise sources that effect the Terrace may have been lower. For example, noise from the saltworks, noise from the garage, and noise from traffic on Barlow Way.
- The baseline noise level for Westfield Road was measured over a short period in 2006 at a location further away from the road network than the Receptors on Westfield Road (at the park on Russell Road). The measured baseline noise levels may therefore be lower than the expected baseline at Westfield Road, Receptors that are closer to the Expressway.
- It was not possible to consistently calculate the specific sound level from the measured residual and ambient sound levels in each instance as for three of the comparisons, the two datasets were either within 3dB(A) of each other, or the measured ambient (operational) sound level was lower than the residual sound level.

For the above reasons SLR consider that the most robust method of determining the specific sound level of the EfW Facility at the nearest Noise Sensitive Receptors is through a noise model of the EfW Facility. This is in accordance with section 7.3.5 of BS4142:2014+A1:2019.

7.0 BS4142:2014+A1:2019 Assessment from Modelling

Within SLR Report 403.00036.00982 at Section 7 the results of a noise modelling exercise completed for eight surveys was presented. As abatement has been fitted to the existing turbine hall fans and some 'noise dampening' material has been fitted to the tower pond surface, there is potential for the noise level at measurement locations 10, 11, 12, 13, 15, and 25 to have changed. Therefore, an updated model 9 has been developed for this Report. The remainder of this section will refer to Survey 9 and the subsequent model. The previous results for Survey 1 to 8 can be found in **Appendix 06**⁹.

During surveys 1 to 8 noise levels were measured at 29 locations. For this report it was necessary to resurvey at the following locations:

- Location 10: Condensers.
- Location 11: Condensers.
- Location 12: Condensers.
- Location 13: Condensers.
- Location 15: Car Park Boundary.
- Location 25: Turbine Hall.

The locations of the monitoring points are shown on the drawing in **Appendix 07**. During Survey 9 all Lines of the Plant were operational.

From the measured data at the survey locations the sound power level of each item of plant/area under consideration was determined. The calculated sound power levels for (for all 9 surveys) are shown in **Appendix 08**.

7.1 Noise Model Output

The noise model output of each Survey can be seen in **Appendix 09**. For Survey 9 except for locations 10, 11, 12, 13, 15 and 25 (which were remeasured as part of this assessment) the Survey 5 data was used as this was the last survey completed when all four lines were operational.

During the first eight Surveys, as well as at each noise source, measurements were completed at boundary locations (measurement points 14, 15, 17, and 26). During Survey 9 it was only considered necessary to monitor at boundary location 15. as at boundary locations 14, 17, and 26 noise sources other than the EfW Facility contributed to the measured noise level. For information, the measured noise level at each boundary location can be seen in column 3 of Table 06-2 in **Appendix 06**.

To determine the specific sound level of the EfW Facility, for each Survey the noise level from each item of plant measured has been corrected to each boundary location (see column 4 of **Appendix 06** Table 06-2).

Table 06-03 in **Appendix 06** compares the corrected total site dB $L_{Aeq,T}$ noise level at each boundary location to the modelled dB $L_{Aeq,T}$ noise level for each survey.

It can be seen from Table 06-3 in **Appendix 06** that for Surveys 1 to 8:

- There is good correlation (within 3dB(A)) between the calculated (from measured data) and the modelled noise levels at Locations 14, 15, and 26. At Location 17 the modelled noise levels are on average 8.9dB(A) higher than those that were calculated (from measured data).

⁹ Where the data has been updates for this report, the update is clearly indicated.

- At each Location, the modelled noise levels were higher than those that were calculated (from measured data).

It can be seen from Table 06-3 in **Appendix 06** that for Survey 9:

- At Location 15 the calculated (from measured data) and the modelled noise level is the same.

It is therefore concluded that the model may be robustly used to model noise levels at the Noise Sensitive Receptors close to the EfW Facility.

The Survey 9 modelled $L_{Aeq,T}$ noise level at each of the nearest Noise Sensitive Receptors (at a height of 1.5m) to the EfW Facility can be seen in Table 7-1. The five dominant noise sources at each NSR are also detailed.

Table 7-1
EfW Facility Noise Level at NSRs – $L_{Aeq,T}$ dB

Survey	Location	Modelled Noise Level (Free-Field)	Highest Contributors
9	Clarks Terrace (1.5m)	48.1	Condenser, Water Storage Pump, Ad Fan 1, AD Fan 2, AD Fan 4
9	Russell Road / Proxy for Westfield Road (1.5m)	41.8	AD Fan 1, 2, 4, 3 and Waste Bunker

7.2 Modelled Specific Sound Level

The spot source level measurements completed between November 2015 and September 2023 did not include noise from the Railhead.

Noise from the Railhead was measured on the 3rd September 2018 and a noise model of a train arrival and railhead operations was developed.

This model has been re-visited and the predicted noise level at the two NSR locations have been calculated. These noise levels are shown in Table 7-2.

Table 7-2
Noise from a Train Pass-by and Railhead Operations over a One-Hour Period

Location	$L_{Aeq,1hour}$ Noise Level dB Daytime ¹⁰	$L_{Aeq,1hour}$ Noise Level dB Night-time ¹¹
Clarks Terrace (1.5m)	21.1	18.6
Russell Road (1.5m)	45.8	45.3

¹⁰ Receiver height at 1.5m

¹¹ Receiver height at 4m

7.3 Modelled Rating Level

The noise levels presented in Table 7-1 and 7-2 are specific sound levels. A rating level is the specific sound level corrected to take into consideration the character of the noise source.

The character of noise from the EfW Facility and the sound correction that will be applied in the BS4142:2014+A1:2019 assessment is detailed in Section 6-2 of this Report.

The following character corrections will be applied to the specific sound level at each receptor:

- Clarks Terrace 3dB(A)
- Westfield Road 6dB(A)

The BS4142:2014+A1:2019 assessment is presented in Table 7-3. The baseline background sound levels are those presented in Section 4 of this report. With and without railhead operations are presented.

For easy reference with the August 2022 pre-mitigation Report, (where a comparison can be made), the rating level, and the difference between the background sound level and the pre-mitigated rating level, are shown in red brackets. This data can be referenced in Table 7-6 in the 2022 Report.

Table 7-3
Modelled BS4142:2014+A1:2019 Assessment – dB(A)

Receptor	Period	Operation	Specific Sound Level	Rating Level	Background Sound Level	Difference
Clarks Terrace (1.5m)	Daytime	With Railhead Operations ¹²	48	51 (52)	45	+6 (+7)
	Night-Time		48	51 (52)	38	+13 (+14)
Russell Road (1.5m) Proxy for Westfield Road	Daytime		47	50 (53)	61	-11 (-8)
	Night-Time		42	48 (47)	46	+2 (+1)
Clarks Terrace (1.5m)	Daytime	Without Railhead Operations	48	51 (52)	45	+6 (+7)
	Night-Time		48	51 (52)	38	+13 (+14)
Russell Road (1.5m) Proxy for Westfield Road	Daytime		42	48 (47)	61	-13 (-14)
	Night-Time		42	48 (47)	46	+2 (+1)

In accordance with BS4142:2014+A1:2019 a rating level of more than 5dB(A) above the baseline background sound level is likely to be an indication of an adverse impact, depending on the context.

7.3.1 Clarks Terrace

With reference to context, whilst fixed plant noise from the EfW Facility is audible at Clarks Terrace, the EfW Facility is located within the Weston Point Industrial Area, and the NSR's effected are also subject to industrial noise from the Salt Works to the north and the INEOS complex to the south. As the soundscape in the area is characterised by several sources of industrial noise, the exceedance of the baseline background sound level by

¹² Railhead operations do not occur at night.

6dB(A) during the daytime may be considered acceptable in context. This is one decibel improvement from the plus 7dB(A) reported in the August 2022 Report.

Furthermore, the measured daytime ambient operational noise levels at Clarks Terrace at 1.5m were between 51dB(A) and 53.6dB(A)¹³, levels below the value of 55dB(A) referenced in BS8233:2014 as an acceptable ambient noise level in external amenity space. With reference to the August 2022 pre mitigation Report, the measured daytime noise level at 1.5m at Clarks Terrace was 55dB(A). Whilst the two data set are limited (in duration), the results indicate that the mitigation has reduced the daytime ambient sound level at Clarks Terrace by in this instance up to 4dB(A). A reduction in this magnificent is significant, a reduction in the measured noise level by over half.

At night the measured operational ambient noise level at 4m was between 50dB(A) and 52dB(A)¹⁴. A partially open window will reduce external noise level by 13dB(A)¹⁵. The internal noise level in a bedroom at Clarks Terrace facing the EfW Facility is therefore expected to be between 37dB(A) and 39dB(A). Whilst this level exceeds the recommended limit of 30dB(A) referenced in BS8233:2014, with a closed window, the limit would likely be met. This is also a betterment to the August 2022 Report where an internal level of 42dB(A) was reported. Again, whilst the two data set are limited (in duration), the results indicate that the mitigation has reduced the night-time ambient sound level at Clarks Terrace by up to 5dB(A). A reduction in this magnificent is significant, a reduction in the measured noise level by over half.

7.3.2 Westfield Road

At Westfield Road during the daytime noise sources associated with the Railhead decrease the difference between the rating level and the baseline background sound level, but the rating level is still below the baseline background sound level. At night the rating level is 2dB(A) above the baseline background sound level. It is therefore considered that noise from the EfW Facility would not lead to an adverse impact at residential receptors in this area.

¹³ See Table 5-3 daytime measurements at 1.5m.

¹⁴ See Table 5-3 night-time measurement at 4m.

¹⁵ See Appendix C of the Acoustics Ventilation and Overheating Residential Design Guide (2020).

8.0 Conclusion

In 2022, Viridor appointed SLR Consulting Ltd (SLR) to undertake a noise assessment of the Energy from Waste Facility at Barlow Way, Runcorn. At the request of the Environment Agency (EA) the assessment was undertaken in accordance with the procedure set out in BS4142:2014+A1:2019 Methods for rating and assessing industrial and commercial sound. The assessment was presented in report 403.00036.00982.002, dated August 2022.

As it is understood that abatement has been fitted to the existing turbine hall fans and some 'noise dampening' material has been fitted to the tower pond surface, the assessment has been repeated.

This Report has found that the rating level of the Site at Clarks Terrace, when determined through both measurement and modelling, has reduced.

At Clarks Terrace, at the first floor, during the daytime the measured levels have demonstrated that the rating level has reduced from 60dB(A) to 55dB(A) which is a significant improvement. At night a reduction of up to 3dB(A) has been evidenced at first floor, and a reduction of 8dB(A) has been evidenced at the ground floor, both of which are again, significant improvements.

The measured ambient sound level has also been found to be lower, reducing by up to 4dB(A) over the comparable daytime data sets. At night a reduction of up to 5dB(A) has been evidenced. A reduction in this magnitude is significant, a reduction in the measured noise level by over half (68%).

It may therefore be concluded that the mitigation measures implemented have reduced the noise level from the Site and that all Best Practicable Means are in place to reduce noise.

At Westfield Road the results between the two surveys are similar which is as expected owing to the NSR location not being near to the mitigated plant.

APPENDIX 01

Glossary of Terminology

In order to assist the understanding of acoustic terminology and the relative change in noise, the following background information is provided.

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 01-1
Sound Levels Commonly Found in the Environment

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

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 ($2 \times 10^{-5} \text{Pa}$).
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}	L_{Aeq} is defined as the notional steady sound level which, over a stated period of time, would contain the same amount of acoustical energy as the A – weighted fluctuating sound measured over that period.
L_{10} & L_{90}	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_{10} is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L_{90} is the 'average minimum level' and is often used to describe the background noise. It is common practice to use the L_{10} index to describe traffic noise.
L_{Amax}	L_{Amax} 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 02

Baseline Noise Survey Photographs

APPENDIX 03

Baseline Background Sound Level Histograms

Figure 8-1: Clarks Terrace, daytime

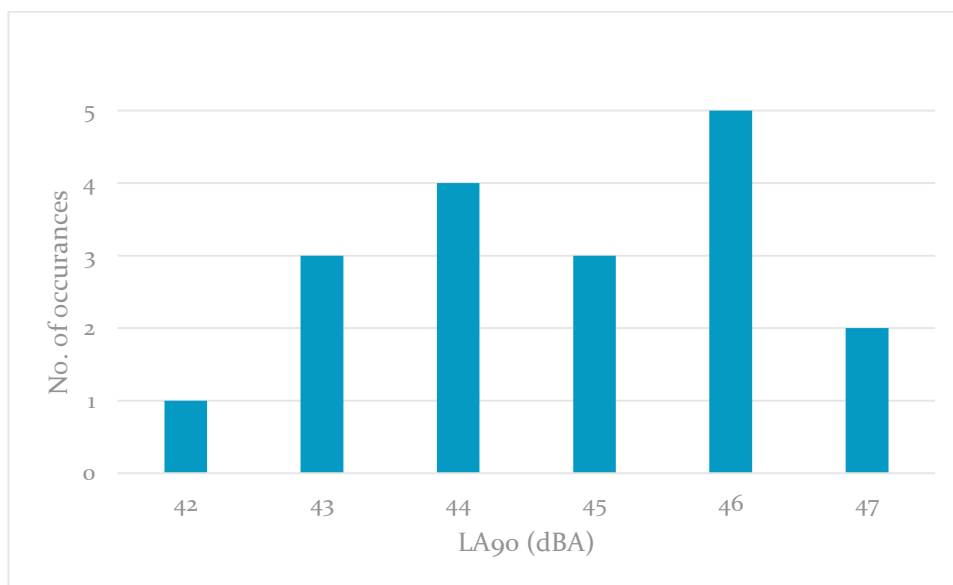


Figure 8-2: Clarks Terrace, evening

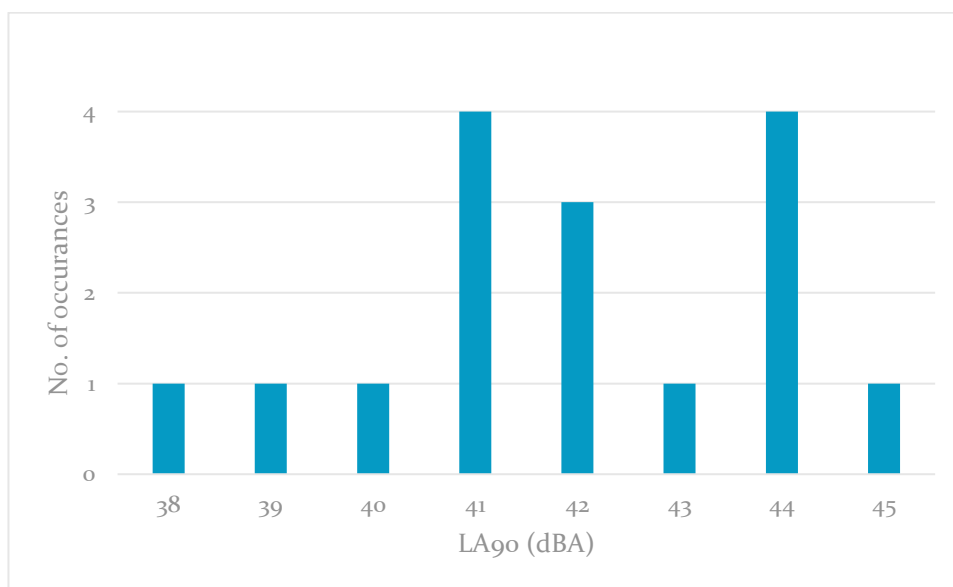
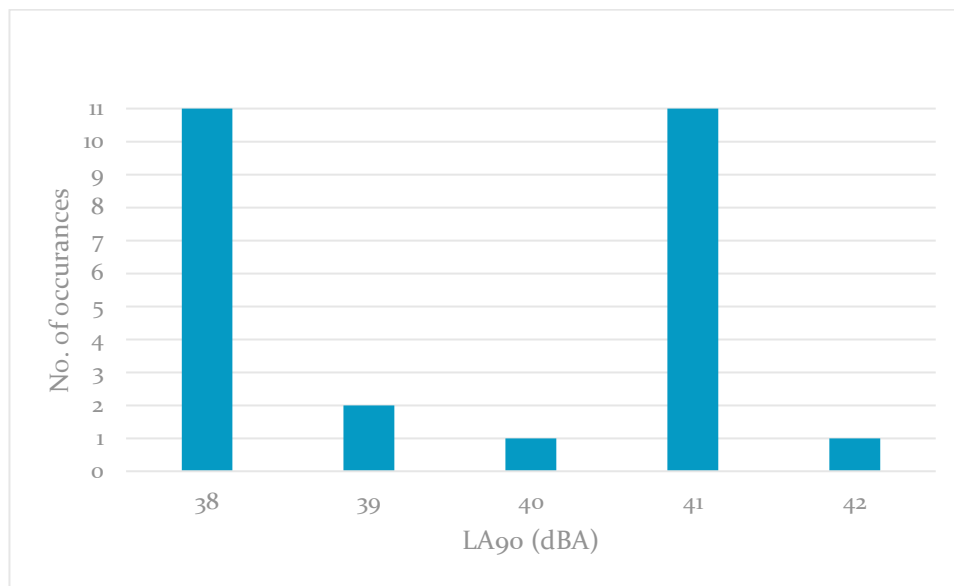


Figure 8-3 : Clarks Terrace, night-time



APPENDIX 04

Operational Noise Survey Photos

Figure 04-01
Clarks Terrace





Figure 04-02
Westfield Road



APPENDIX 05

Operational Survey Results

Table 05-01
Clarks Terrace (1.5m)

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 12:30	52.9	63.1	55.1	50.6
27/09/2023 12:45	55.4	70.4	57.4	50.6
27/09/2023 13:00	51.9	58.7	53.4	50.0
27/09/2023 13:15	54.8	76.5	56.7	50.5
27/09/2023 13:30	53.7	67.1	55.5	50.1
27/09/2023 13:45	53.6	70.9	56.0	50.6
27/09/2023 14:00	53.6	61.7	55.2	51.6
27/09/2023 14:15	53.3	66.5	55.0	51.4
27/09/2023 14:30	54.8	75.4	56.9	52.3
27/09/2023 14:45	53.3	67.4	54.7	51.7
27/09/2023 15:00	54.3	68.8	55.8	51.6
27/09/2023 15:15	53.1	64.7	55.1	51.0
27/09/2023 15:30	59.2	89.5	54.1	51.0
27/09/2023 15:45	54.0	64.1	55.9	52.1
27/09/2023 16:00	54.3	70.2	56.1	52.0
27/09/2023 16:15	58.0	77.4	57.3	52.2
27/09/2023 16:30	53.7	73.0	54.9	50.7
27/09/2023 16:45	52.5	64.7	54.3	50.4
27/09/2023 17:00	53.9	62.3	56.1	51.6
27/09/2023 17:15	54.2	64.4	56.2	51.9
27/09/2023 17:30	53.5	68.2	55.5	51.0
27/09/2023 17:45	53.3	64.0	55.2	50.9
27/09/2023 18:00	54.1	68.6	55.9	50.9
27/09/2023 18:15	54.8	71.7	56.3	51.5
27/09/2023 18:30	54.8	70.6	57.4	50.9
27/09/2023 18:45	59.7	69.4	64.5	50.4
27/09/2023 19:00	51.3	67.8	52.4	47.4
27/09/2023 19:15	50.2	65.1	51.4	47.2
27/09/2023 19:30	49.2	71.6	50.7	47.4

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 19:45	49.8	60.2	51.7	47.1
27/09/2023 20:00	50.0	65.3	51.7	48.0
27/09/2023 20:15	52.6	66.1	54.8	48.4
27/09/2023 20:30	50.9	61.5	52.8	48.5
27/09/2023 20:45	50.7	58.9	52.4	48.7
27/09/2023 21:00	50.8	57.0	52.7	48.8
27/09/2023 21:15	52.9	63.4	55.0	50.0
27/09/2023 21:30	54.4	62.3	57.0	50.9
27/09/2023 21:45	52.6	61.1	54.9	49.4
27/09/2023 22:00	51.0	63.0	53.1	48.6
27/09/2023 22:15	53.7	63.4	56.3	50.2
27/09/2023 22:30	51.2	61.1	52.9	48.8
27/09/2023 22:45	49.9	61.3	52.1	47.3
27/09/2023 23:00	49.5	64.2	51.1	46.5
27/09/2023 23:15	47.9	61.2	48.6	46.1
27/09/2023 23:30	48.8	70.0	48.4	46.2
27/09/2023 23:45	48.7	61.7	49.4	46.9
28/09/2023 00:00	49.5	64.4	51.1	47.0
28/09/2023 00:15	48.3	61.1	48.9	46.6
28/09/2023 00:30	47.6	62.4	48.5	46.2
28/09/2023 00:45	46.4	51.1	47.2	45.6
28/09/2023 01:00	46.3	55.5	47.2	45.2
28/09/2023 01:15	48.0	67.0	47.6	45.3
28/09/2023 01:30	47.4	62.2	47.6	45.4
28/09/2023 01:45	46.3	51.2	47.3	45.3
28/09/2023 02:00	48.1	66.6	48.5	45.3
28/09/2023 02:15	48.3	65.5	48.4	45.6
28/09/2023 02:30	48.9	55.4	50.5	47.2
28/09/2023 02:45	51.1	59.2	52.9	49.1
28/09/2023 03:00	51.6	58.9	53.6	49.4
28/09/2023 03:15	49.1	55.9	50.5	47.7

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 03:30	51.6	59.2	53.9	48.5
28/09/2023 03:45	51.8	57.9	53.6	49.3
28/09/2023 04:00	50.9	60.1	53.3	48.1
28/09/2023 04:15	49.7	57.3	51.5	47.8
28/09/2023 04:30	47.7	54.9	49.1	46.1
28/09/2023 04:45	46.8	54.6	47.5	46.0
28/09/2023 05:00	48.0	54.4	49.2	46.7
28/09/2023 05:15	48.5	61.7	49.6	46.1
28/09/2023 05:30	47.6	57.3	49.0	45.8
28/09/2023 05:45	50.3	61.8	52.3	47.8
28/09/2023 06:00	49.2	55.8	51.7	46.7
28/09/2023 06:15	48.6	60.4	50.7	46.7
28/09/2023 06:30	50.8	61.3	53.8	46.8
28/09/2023 06:45	49.4	64.1	51.9	46.8
28/09/2023 07:00	48.9	57.2	51.3	46.8
28/09/2023 07:15	50.8	64.6	53.4	47.6
28/09/2023 07:30	49.7	62.2	52.8	46.5
28/09/2023 07:45	52.1	71.5	53.9	46.9
28/09/2023 08:00	50.4	67.9	53.0	47.7
28/09/2023 08:15	53.1	70.2	54.3	47.9
28/09/2023 08:30	52.4	72.8	52.6	47.6
28/09/2023 08:45	50.5	68.5	52.4	47.6
28/09/2023 09:00	50.2	72.0	52.4	46.7
28/09/2023 09:15	50.0	65.5	52.3	46.6
28/09/2023 09:30	53.5	78.6	55.2	47.2
28/09/2023 09:45	52.6	78.6	51.5	46.5
28/09/2023 10:00	49.1	67.6	50.3	46.7
28/09/2023 10:15	49.7	64.7	51.2	47.0
28/09/2023 10:30	49.4	67.0	51.9	46.7
28/09/2023 10:45	53.0	78.2	54.2	47.2
28/09/2023 11:00	55.4	79.9	52.2	46.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 11:15	49.5	70.9	51.1	47.0
28/09/2023 11:30	54.8	76.7	55.8	47.5
28/09/2023 11:45	54.5	74.2	57.4	47.8
28/09/2023 12:00	51.1	66.3	52.8	48.0
28/09/2023 12:15	50.1	67.1	52.2	47.6
28/09/2023 12:30	52.8	76.7	53.7	47.7
28/09/2023 12:45	50.0	66.4	52.3	47.3
28/09/2023 13:00	48.7	63.3	50.1	46.9
28/09/2023 13:15	50.7	68.7	53.2	46.9
28/09/2023 13:30	52.2	72.9	54.2	47.4
28/09/2023 13:45	52.7	75.8	53.9	47.2
28/09/2023 14:00	49.5	61.1	51.5	47.2
28/09/2023 14:15	52.8	70.4	55.3	47.4
28/09/2023 14:30	51.6	68.9	54.3	48.1
28/09/2023 14:45	50.2	65.2	52.2	47.7
28/09/2023 15:00	52.7	72.0	54.2	48.2
28/09/2023 15:15	52.1	69.4	54.1	47.6
28/09/2023 15:30	52.3	71.0	53.7	47.7
28/09/2023 15:45	51.5	63.7	53.6	48.9
28/09/2023 16:00	52.8	70.5	55.5	48.7
28/09/2023 16:15	54.5	78.0	56.7	48.3
28/09/2023 16:30	50.1	64.6	51.7	47.9
28/09/2023 16:45	49.7	70.3	51.0	47.8
28/09/2023 17:00	50.0	64.6	51.5	48.0
28/09/2023 17:15	51.2	73.2	51.7	48.4
28/09/2023 17:30	53.3	75.4	50.5	47.6
28/09/2023 17:45	50.4	62.8	52.2	47.9
28/09/2023 18:00	49.6	63.9	50.5	47.4
28/09/2023 18:15	49.1	62.2	50.0	47.4
28/09/2023 18:30	50.0	62.7	50.6	48.2
28/09/2023 18:45	49.7	62.2	50.6	48.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 19:00	49.6	60.8	50.9	48.0
28/09/2023 19:15	49.4	60.5	50.5	47.9
28/09/2023 19:30	48.6	57.6	49.7	47.3
28/09/2023 19:45	49.0	63.1	50.1	47.2
28/09/2023 20:00	48.5	63.6	49.5	46.9
28/09/2023 20:15	49.1	64.7	50.3	47.1
28/09/2023 20:30	48.5	60.8	49.4	46.7
28/09/2023 20:45	47.4	52.3	48.4	46.2
28/09/2023 21:00	48.9	64.7	50.3	46.1
28/09/2023 21:15	48.2	62.7	48.9	46.1
28/09/2023 21:30	48.8	63.8	49.8	45.9
28/09/2023 21:45	47.0	57.5	47.8	46.0
28/09/2023 22:00	46.8	50.4	47.6	46.0
28/09/2023 22:15	47.0	53.3	47.9	45.9
28/09/2023 22:30	48.2	62.8	48.3	46.0
28/09/2023 22:45	48.6	66.1	49.0	46.2
28/09/2023 23:00	46.9	49.2	47.6	46.3
28/09/2023 23:15	46.9	50.1	47.8	46.1
28/09/2023 23:30	47.8	62.6	47.8	46.0
28/09/2023 23:45	48.3	64.7	48.2	46.3
29/09/2023 00:00	46.7	49.5	47.3	46.0
29/09/2023 00:15	48.2	65.4	48.1	46.0
29/09/2023 00:30	47.8	63.4	47.6	45.9
29/09/2023 00:45	46.7	48.7	47.4	45.9
29/09/2023 01:00	48.3	65.1	47.7	46.0
29/09/2023 01:15	49.6	67.8	48.4	46.3
29/09/2023 01:30	46.6	49.4	47.2	46.0
29/09/2023 01:45	46.4	49.1	47.1	45.7
29/09/2023 02:00	47.0	48.6	47.5	46.5
29/09/2023 02:15	47.2	52.9	47.6	46.6
29/09/2023 02:30	47.0	51.1	47.6	46.5

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 02:45	48.1	50.3	48.8	47.4
29/09/2023 03:00	49.2	55.4	50.0	48.4
29/09/2023 03:15	48.9	54.4	49.6	48.1
29/09/2023 03:30	48.3	62.3	48.6	47.3
29/09/2023 03:45	48.2	63.5	48.6	47.4
29/09/2023 04:00	48.5	51.9	49.1	48.0
29/09/2023 04:15	48.6	50.9	49.4	47.9
29/09/2023 04:30	48.0	53.4	48.8	47.1
29/09/2023 04:45	48.7	55.1	49.4	48.0
29/09/2023 05:00	49.1	61.8	49.5	48.4
29/09/2023 05:15	49.5	59.0	50.5	48.5
29/09/2023 05:30	49.1	54.6	50.0	48.2
29/09/2023 05:45	50.0	57.6	52.4	47.8
29/09/2023 06:00	49.0	56.6	50.6	47.5
29/09/2023 06:15	49.3	62.4	51.8	47.4
29/09/2023 06:30	50.4	63.4	53.1	47.8
29/09/2023 06:45	50.7	69.8	52.7	47.6
29/09/2023 07:00	49.8	58.9	52.2	47.9
29/09/2023 07:15	49.8	68.6	51.1	47.8
29/09/2023 07:30	52.4	73.1	52.0	47.9
29/09/2023 07:45	52.6	68.2	55.0	48.7
29/09/2023 08:00	54.2	77.1	55.9	48.2
29/09/2023 08:15	53.6	72.8	55.2	48.8
29/09/2023 08:30	54.6	77.1	56.2	48.3
29/09/2023 08:45	52.1	71.5	54.5	48.1
29/09/2023 09:00	50.1	67.8	52.6	47.5
29/09/2023 09:15	53.2	70.1	54.7	48.0
29/09/2023 09:30	53.2	76.6	52.8	48.8
29/09/2023 09:45	52.8	67.0	55.2	49.9
29/09/2023 10:00	66.0	85.6	56.3	49.3
29/09/2023 10:15	51.5	61.6	53.7	49.4

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 10:30	53.5	70.5	56.2	50.2
29/09/2023 10:45	55.9	70.8	56.8	54.8
29/09/2023 11:00	54.8	82.8	56.1	49.3
29/09/2023 11:15	53.3	73.0	54.1	49.6
29/09/2023 11:30	56.6	76.7	57.3	50.0
29/09/2023 11:45	55.0	77.4	55.2	50.2
29/09/2023 12:00	58.0	80.4	58.4	50.1
29/09/2023 12:15	53.6	74.7	53.1	49.6
29/09/2023 12:30	52.6	65.7	55.0	49.5
29/09/2023 12:45	52.0	60.7	53.7	49.9
29/09/2023 13:00	54.3	76.7	53.5	50.4
29/09/2023 13:15	56.3	77.3	56.6	50.1
29/09/2023 13:30	56.1	78.8	55.8	50.3
29/09/2023 13:45	52.0	60.6	53.8	50.1
29/09/2023 14:00	52.1	61.4	53.6	50.6
29/09/2023 14:15	52.1	60.3	53.3	50.7
29/09/2023 14:30	51.7	65.6	52.9	50.3
29/09/2023 14:45	52.1	63.6	53.5	50.3
29/09/2023 15:00	53.2	70.5	55.1	50.2
29/09/2023 15:15	55.5	75.5	56.3	50.3
29/09/2023 15:30	55.0	77.7	55.8	51.4
29/09/2023 15:45	52.4	78.1	53.1	50.2
29/09/2023 16:00	54.0	76.3	53.7	49.8
29/09/2023 16:15	51.7	67.7	52.7	50.3
29/09/2023 16:30	51.8	70.2	53.6	49.3
29/09/2023 16:45	50.4	65.0	51.6	48.1
29/09/2023 17:00	51.1	68.9	52.4	48.0
29/09/2023 17:15	48.2	53.8	49.1	47.3
29/09/2023 17:30	49.8	65.9	50.1	47.3
29/09/2023 17:45	54.0	72.5	52.3	46.9
29/09/2023 18:00	49.3	66.2	49.8	45.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 18:15	50.0	64.3	51.0	46.0
29/09/2023 18:30	49.4	66.7	51.5	46.0
29/09/2023 18:45	46.2	50.7	46.9	45.5
29/09/2023 19:00	47.8	68.3	47.7	45.6
29/09/2023 19:15	47.1	56.9	48.6	45.8
29/09/2023 19:30	47.7	64.0	49.1	45.6
29/09/2023 19:45	46.3	57.9	46.8	45.5
29/09/2023 20:00	47.4	58.1	48.9	46.0
29/09/2023 20:15	46.9	60.8	47.0	45.7
29/09/2023 20:30	47.0	54.6	48.2	46.0
29/09/2023 20:45	48.5	64.3	48.4	45.9
29/09/2023 21:00	49.5	64.9	50.6	46.1
29/09/2023 21:15	46.6	50.3	47.1	46.1
29/09/2023 21:30	48.4	65.1	47.6	46.1
29/09/2023 21:45	46.7	52.0	47.4	46.1
29/09/2023 22:00	46.5	57.0	46.9	45.8
29/09/2023 22:15	46.4	51.8	46.9	45.8
29/09/2023 22:30	47.1	54.0	48.2	46.1
29/09/2023 22:45	49.1	68.8	49.6	45.8
29/09/2023 23:00	46.4	51.8	47.0	45.8
29/09/2023 23:15	49.7	66.6	48.8	46.0
29/09/2023 23:30	49.4	65.7	48.7	45.7
29/09/2023 23:45	48.1	65.8	47.3	45.6
30/09/2023 00:00	46.3	48.1	46.9	45.8
30/09/2023 00:15	46.8	50.8	47.4	46.2
30/09/2023 00:30	48.6	66.5	47.3	46.1
30/09/2023 00:45	48.7	66.6	47.3	46.0
30/09/2023 01:00	48.7	66.3	47.1	45.6
30/09/2023 01:15	46.2	51.2	46.8	45.7
30/09/2023 01:30	46.5	53.4	47.1	45.8
30/09/2023 01:45	46.7	49.5	47.3	46.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 02:00	46.5	48.5	47.2	45.9
30/09/2023 02:15	45.9	48.5	46.5	45.5
30/09/2023 02:30	45.4	47.5	46.0	44.8
30/09/2023 02:45	47.4	64.6	46.1	44.7
30/09/2023 03:00	45.6	49.5	46.2	45.2
30/09/2023 03:15	47.5	62.1	46.8	45.3
30/09/2023 03:30	45.7	48.0	46.3	45.3
30/09/2023 03:45	45.6	51.9	46.1	45.1
30/09/2023 04:00	45.0	49.6	45.6	44.5
30/09/2023 04:15	45.0	47.5	45.4	44.6
30/09/2023 04:30	45.4	53.7	45.9	44.8
30/09/2023 04:45	45.2	54.4	45.5	44.6
30/09/2023 05:00	45.1	51.7	45.7	44.4
30/09/2023 05:15	45.5	59.1	46.1	44.4
30/09/2023 05:30	45.5	52.5	46.3	44.5
30/09/2023 05:45	46.2	60.9	46.9	44.8
30/09/2023 06:00	47.2	56.8	48.8	44.9
30/09/2023 06:15	48.3	62.8	50.0	45.1
30/09/2023 06:30	47.4	61.1	48.3	45.8
30/09/2023 06:45	52.8	77.0	49.9	46.7
30/09/2023 07:00	47.2	56.9	47.9	46.0
30/09/2023 07:15	48.7	69.4	49.0	46.1
30/09/2023 07:30	49.3	64.3	50.6	46.2
30/09/2023 07:45	48.5	59.0	49.5	46.9
30/09/2023 08:00	50.0	71.9	51.0	46.4
30/09/2023 08:15	50.4	69.0	52.0	47.0
30/09/2023 08:30	50.4	67.0	51.6	47.3
30/09/2023 08:45	49.0	65.5	51.2	46.8
30/09/2023 09:00	50.9	67.8	52.1	46.8
30/09/2023 09:15	52.8	75.0	53.2	46.6
30/09/2023 09:30	49.5	64.2	51.7	47.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 09:45	51.6	67.2	54.1	46.8
30/09/2023 10:00	52.3	70.5	52.7	46.8
30/09/2023 10:15	54.6	76.6	52.4	46.0
30/09/2023 10:30	49.2	61.7	52.2	45.4
30/09/2023 10:45	46.4	61.5	47.7	44.9
30/09/2023 11:00	52.4	74.4	53.8	46.1
30/09/2023 11:15	53.9	72.7	55.7	46.9
30/09/2023 11:30	48.5	67.4	50.7	46.5
30/09/2023 11:45	52.0	71.0	53.0	46.5
30/09/2023 12:00	51.5	70.7	53.2	46.0
30/09/2023 12:15	52.3	72.6	51.6	45.6
30/09/2023 12:30	50.5	68.9	52.2	45.9
30/09/2023 12:45	50.1	66.1	52.3	46.7
30/09/2023 13:00	49.6	69.4	50.7	46.5
30/09/2023 13:15	49.7	68.3	52.2	46.0
30/09/2023 13:30	48.5	69.0	49.2	45.8
30/09/2023 13:45	48.1	56.9	49.4	46.4
30/09/2023 14:00	50.3	66.5	51.6	47.0
30/09/2023 14:15	51.0	69.3	53.1	48.1
30/09/2023 14:30	49.1	69.4	50.0	45.4
30/09/2023 14:45	52.7	66.7	55.6	47.6
30/09/2023 15:00	50.0	61.2	51.6	48.2
30/09/2023 15:15	51.7	66.1	52.7	48.3
30/09/2023 15:30	49.9	57.4	51.0	48.7
30/09/2023 15:45	52.6	69.6	53.1	49.6
30/09/2023 16:00	51.9	66.5	53.5	49.6
30/09/2023 16:15	50.6	55.2	51.8	49.3
30/09/2023 16:30	50.6	59.8	51.7	49.5
30/09/2023 16:45	50.7	64.9	51.7	49.3
30/09/2023 17:00	52.4	59.0	54.0	50.8
30/09/2023 17:15	58.9	80.3	58.0	51.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 17:30	52.6	65.4	54.5	49.6
30/09/2023 17:45	50.9	60.0	52.3	49.6
30/09/2023 18:00	51.1	63.8	52.6	49.3
30/09/2023 18:15	51.2	64.8	52.6	48.8
30/09/2023 18:30	59.9	81.3	52.4	48.4
30/09/2023 18:45	49.1	57.6	50.5	47.6
30/09/2023 19:00	48.4	56.1	50.0	46.9
30/09/2023 19:15	47.8	59.0	49.2	46.3
30/09/2023 19:30	49.5	67.4	50.7	46.5
30/09/2023 19:45	48.1	57.9	49.7	46.5
30/09/2023 20:00	49.5	64.8	49.8	46.7
30/09/2023 20:15	50.3	69.2	49.7	46.3
30/09/2023 20:30	47.7	60.1	49.3	45.8
30/09/2023 20:45	47.1	57.3	48.3	45.9
30/09/2023 21:00	47.4	70.1	48.0	45.7
30/09/2023 21:15	47.8	59.1	49.4	45.7
30/09/2023 21:30	47.4	58.6	48.2	45.7
30/09/2023 21:45	46.5	56.8	47.3	45.2
30/09/2023 22:00	46.5	57.0	47.6	45.0
30/09/2023 22:15	50.3	70.1	48.5	45.0
30/09/2023 22:30	45.7	54.3	46.9	44.6
30/09/2023 22:45	45.9	52.7	47.0	44.8
30/09/2023 23:00	46.4	54.8	47.3	45.4
30/09/2023 23:15	46.6	60.7	47.5	45.5
30/09/2023 23:30	45.9	49.6	46.8	45.1
30/09/2023 23:45	46.0	49.2	46.9	45.1
01/10/2023 00:00	46.1	49.1	46.8	45.5
01/10/2023 00:15	45.8	54.6	46.5	44.9
01/10/2023 00:30	45.8	49.4	46.5	45.0
01/10/2023 00:45	47.4	63.5	46.9	45.0
01/10/2023 01:00	45.8	49.8	46.6	45.0

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 01:15	47.2	63.0	47.0	45.0
01/10/2023 01:30	47.4	64.5	46.9	45.3
01/10/2023 01:45	45.8	48.5	46.5	45.0
01/10/2023 02:00	47.5	63.8	47.0	45.5
01/10/2023 02:15	47.7	63.5	47.6	45.5
01/10/2023 02:30	47.1	57.2	47.3	45.6
01/10/2023 02:45	46.2	52.2	46.9	45.4
01/10/2023 03:00	46.2	49.7	46.9	45.4
01/10/2023 03:15	46.0	51.0	46.7	45.4
01/10/2023 03:30	54.4	61.7	57.1	48.4
01/10/2023 03:45	54.7	60.7	57.0	49.6
01/10/2023 04:00	53.3	59.7	56.4	50.0
01/10/2023 04:15	48.7	54.3	50.5	46.8
01/10/2023 04:30	47.8	52.7	49.3	46.4
01/10/2023 04:45	47.0	55.9	47.6	46.2
01/10/2023 05:00	47.0	55.8	47.7	46.2
01/10/2023 05:15	46.8	52.3	47.5	46.0
01/10/2023 05:30	46.9	58.9	47.6	46.0
01/10/2023 05:45	47.3	61.0	48.4	46.1
01/10/2023 06:00	47.4	58.8	49.0	45.8
01/10/2023 06:15	46.9	52.8	48.0	46.0
01/10/2023 06:30	48.3	67.6	47.6	46.1
01/10/2023 06:45	48.7	65.9	49.2	46.1
01/10/2023 07:00	49.8	72.4	49.6	46.5
01/10/2023 07:15	48.8	62.1	50.7	46.6
01/10/2023 07:30	47.9	68.3	48.3	45.9
01/10/2023 07:45	49.5	62.9	52.2	46.5
01/10/2023 08:00	48.3	67.3	49.3	46.5
01/10/2023 08:15	50.2	64.1	53.4	46.5
01/10/2023 08:30	48.9	65.0	50.7	46.4
01/10/2023 08:45	48.7	62.7	50.0	45.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 09:00	47.6	52.2	48.8	46.5
01/10/2023 09:15	47.9	58.5	49.1	46.3
01/10/2023 09:30	51.9	66.4	55.3	46.4
01/10/2023 09:45	49.8	61.2	52.5	47.3
01/10/2023 10:00	48.9	54.9	50.8	47.1
01/10/2023 10:15	53.4	70.6	54.4	47.0
01/10/2023 10:30	49.8	65.6	51.3	47.1
01/10/2023 10:45	49.7	64.0	51.5	47.7
01/10/2023 11:00	48.3	64.0	49.3	46.5
01/10/2023 11:15	49.3	66.8	50.1	46.4
01/10/2023 11:30	50.0	65.7	51.6	46.8
01/10/2023 11:45	49.6	70.0	50.9	46.5
01/10/2023 12:00	52.8	70.3	55.6	46.8
01/10/2023 12:15	54.0	74.9	53.5	46.7
01/10/2023 12:30	48.4	65.5	49.1	46.0
01/10/2023 12:45	47.7	60.4	48.2	46.1
01/10/2023 13:00	48.3	67.8	49.7	46.3
01/10/2023 13:15	49.3	68.7	48.4	46.3
01/10/2023 13:30	50.2	71.7	52.2	46.2
01/10/2023 13:45	49.1	69.0	49.6	46.1
01/10/2023 14:00	57.5	79.6	58.3	46.3
01/10/2023 14:15	48.4	63.6	48.8	46.3
01/10/2023 14:30	46.6	51.4	47.5	45.8
01/10/2023 14:45	47.8	63.0	48.0	45.5
01/10/2023 15:00	48.1	63.7	48.3	45.8
01/10/2023 15:15	50.7	68.4	52.8	45.8
01/10/2023 15:30	50.9	67.3	54.0	46.4
01/10/2023 15:45	46.9	51.5	47.4	46.3
01/10/2023 16:00	49.2	63.2	49.0	46.8
01/10/2023 16:15	60.6	90.5	59.9	47.7
01/10/2023 16:30	54.3	77.4	54.7	47.5

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 16:45	58.0	86.5	58.1	47.4
01/10/2023 17:00	51.2	74.3	50.6	47.3
01/10/2023 17:15	48.3	55.9	49.1	47.6
01/10/2023 17:30	48.9	61.2	49.5	48.0
01/10/2023 17:45	49.6	68.1	50.5	47.5
01/10/2023 18:00	48.8	62.9	49.0	47.9
01/10/2023 18:15	48.3	63.8	48.4	47.2
01/10/2023 18:30	50.1	64.3	49.7	47.2
01/10/2023 18:45	49.7	64.1	50.7	47.5
01/10/2023 19:00	48.4	62.0	48.5	47.2
01/10/2023 19:15	48.3	53.4	49.0	47.7
01/10/2023 19:30	48.7	52.5	49.3	48.1
01/10/2023 19:45	48.5	56.5	49.1	47.6
01/10/2023 20:00	50.5	66.2	52.6	47.1
01/10/2023 20:15	48.0	55.9	48.4	47.0
01/10/2023 20:30	47.6	50.6	48.1	47.1
01/10/2023 20:45	47.0	48.9	47.5	46.6
01/10/2023 21:00	49.0	63.5	49.2	46.3
01/10/2023 21:15	49.5	64.2	49.5	46.7
01/10/2023 21:30	49.5	63.3	48.9	47.1
01/10/2023 21:45	48.4	64.7	48.0	46.6
01/10/2023 22:00	47.3	54.6	47.8	46.6
01/10/2023 22:15	47.3	59.4	48.1	46.3
01/10/2023 22:30	47.1	52.4	47.5	46.6
01/10/2023 22:45	48.4	63.7	47.9	46.2
01/10/2023 23:00	47.4	63.4	47.2	45.5
01/10/2023 23:15	46.1	48.7	46.7	45.5
01/10/2023 23:30	48.9	63.0	48.1	46.2
01/10/2023 23:45	49.2	64.2	48.1	46.1
02/10/2023 00:00	46.2	47.9	46.8	45.7
02/10/2023 00:15	46.5	50.4	47.1	45.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
02/10/2023 00:30	46.3	50.0	46.7	45.8
02/10/2023 00:45	46.5	53.5	46.9	45.9
02/10/2023 01:00	49.9	65.2	52.3	46.0
02/10/2023 01:15	46.1	47.6	46.6	45.6
02/10/2023 01:30	46.2	50.8	46.7	45.7
02/10/2023 01:45	47.9	65.3	46.9	45.5
02/10/2023 02:00	47.0	48.8	47.6	46.4
02/10/2023 02:15	48.4	64.8	48.1	46.8
02/10/2023 02:30	46.8	49.0	47.4	46.1
02/10/2023 02:45	46.1	47.8	46.7	45.7
02/10/2023 03:00	46.1	47.6	46.6	45.6
02/10/2023 03:15	46.2	50.3	46.8	45.6
02/10/2023 03:30	45.5	47.9	46.1	44.9
02/10/2023 03:45	45.6	52.6	46.3	44.9
02/10/2023 04:00	45.7	50.7	46.5	44.9
02/10/2023 04:15	45.8	47.9	46.4	45.2
02/10/2023 04:30	46.0	48.9	46.7	45.5
02/10/2023 04:45	46.2	49.3	46.7	45.6
02/10/2023 05:00	46.7	59.3	47.5	45.8
02/10/2023 05:15	47.2	57.1	48.3	46.0
02/10/2023 05:30	47.1	56.5	48.4	45.9
02/10/2023 05:45	48.6	61.3	50.5	46.6
02/10/2023 06:00	48.9	66.5	50.4	46.6
02/10/2023 06:15	48.3	59.5	49.4	46.8
02/10/2023 06:30	49.3	72.6	50.8	46.9
02/10/2023 06:45	50.4	68.0	52.2	47.2
02/10/2023 07:00	48.9	57.3	51.3	47.0
02/10/2023 07:15	51.0	69.0	52.0	47.1
02/10/2023 07:30	52.3	75.2	55.2	47.7
02/10/2023 07:45	50.1	69.4	51.9	47.7
02/10/2023 08:00	61.0	85.8	59.7	48.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
02/10/2023 08:15	52.1	76.2	54.0	47.5
02/10/2023 08:30	56.4	81.4	58.2	48.0
02/10/2023 08:45	51.5	70.3	54.0	47.4
02/10/2023 09:00	50.4	65.5	53.1	46.5
02/10/2023 09:15	51.3	66.7	54.6	46.9
02/10/2023 09:30	52.6	69.1	55.3	46.9
02/10/2023 09:45	52.3	71.9	55.8	46.8
02/10/2023 10:00	50.3	67.3	53.2	46.6
02/10/2023 10:15	52.8	73.3	54.8	46.9
02/10/2023 10:30	54.5	71.1	58.3	46.5
02/10/2023 10:45	48.5	64.4	50.1	46.1
02/10/2023 11:00	51.1	75.1	52.0	46.3
02/10/2023 11:15	53.1	74.9	55.0	46.4
02/10/2023 11:30	49.8	70.6	52.2	46.5
02/10/2023 11:45	50.8	65.5	54.5	46.1
02/10/2023 12:00	51.8	63.6	55.4	46.3
02/10/2023 12:15	51.3	66.8	53.8	46.1
02/10/2023 12:30	50.4	65.0	53.3	46.6
02/10/2023 12:45	52.0	71.3	56.0	46.6
02/10/2023 13:00	57.4	81.6	58.5	46.5

Table 05-02
Clarks Terrace (4m)

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 12:00	55.0	71.1	56.8	52.2
27/09/2023 12:15	55.1	66.2	57.5	52.0
27/09/2023 12:30	54.7	63.2	56.5	52.4
27/09/2023 12:45	56.0	72.5	57.6	52.2
27/09/2023 13:00	54.1	67.3	55.8	52.2
27/09/2023 13:15	56.8	79.2	58.9	52.5
27/09/2023 13:30	54.5	69.1	56.2	52.0

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 13:45	55.8	75.0	57.8	52.6
27/09/2023 14:00	55.7	67.1	57.5	53.3
27/09/2023 14:15	55.9	70.1	57.9	53.5
27/09/2023 14:30	56.5	67.7	58.2	54.2
27/09/2023 14:45	55.3	66.8	56.9	53.4
27/09/2023 15:00	55.9	69.4	57.8	53.2
27/09/2023 15:15	54.9	64.1	56.8	52.6
27/09/2023 15:30	56.5	83.3	55.8	52.6
27/09/2023 15:45	55.5	64.1	57.2	53.3
27/09/2023 16:00	56.0	73.4	57.6	53.2
27/09/2023 16:15	58.4	80.1	58.2	53.1
27/09/2023 16:30	54.6	72.6	56.0	52.2
27/09/2023 16:45	54.4	71.1	56.1	52.0
27/09/2023 17:00	55.2	69.2	56.6	52.9
27/09/2023 17:15	55.5	71.9	57.3	53.2
27/09/2023 17:30	54.9	70.0	56.7	52.3
27/09/2023 17:45	55.2	69.9	56.5	52.3
27/09/2023 18:00	54.8	70.8	56.5	52.1
27/09/2023 18:15	55.6	69.2	56.8	52.2
27/09/2023 18:30	58.5	74.8	60.0	52.6
27/09/2023 18:45	61.5	86.2	65.6	51.5
27/09/2023 19:00	53.0	68.8	54.1	49.7
27/09/2023 19:15	52.3	65.7	53.6	49.8
27/09/2023 19:30	51.8	78.4	52.8	49.8
27/09/2023 19:45	51.8	62.2	53.5	49.4
27/09/2023 20:00	52.2	68.7	53.7	50.0
27/09/2023 20:15	54.3	67.3	56.2	50.7
27/09/2023 20:30	52.6	62.8	54.3	50.5
27/09/2023 20:45	53.0	68.8	54.5	50.8
27/09/2023 21:00	52.8	64.3	54.4	50.7
27/09/2023 21:15	55.0	74.1	56.9	52.0

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 21:30	56.2	73.8	57.8	52.4
27/09/2023 21:45	53.6	64.7	55.5	51.0
27/09/2023 22:00	53.2	77.2	54.6	50.5
27/09/2023 22:15	54.9	76.5	57.0	51.5
27/09/2023 22:30	52.6	62.7	54.3	50.3
27/09/2023 22:45	52.4	71.2	54.7	49.5
27/09/2023 23:00	50.9	65.1	52.3	48.9
27/09/2023 23:15	50.5	61.9	51.1	48.9
27/09/2023 23:30	50.9	66.4	51.0	49.0
27/09/2023 23:45	51.8	66.2	52.5	49.7
28/09/2023 00:00	51.2	58.9	52.3	49.8
28/09/2023 00:15	51.1	62.8	51.5	49.4
28/09/2023 00:30	50.5	66.1	51.4	49.1
28/09/2023 00:45	49.4	57.2	49.9	48.5
28/09/2023 01:00	49.7	64.3	50.0	48.0
28/09/2023 01:15	49.5	64.3	49.9	48.0
28/09/2023 01:30	49.7	62.6	50.0	48.1
28/09/2023 01:45	49.0	56.6	49.9	47.9
28/09/2023 02:00	50.3	67.1	50.4	48.1
28/09/2023 02:15	50.5	68.1	50.8	48.3
28/09/2023 02:30	51.1	68.3	52.3	49.3
28/09/2023 02:45	53.2	73.3	54.5	50.8
28/09/2023 03:00	53.6	77.0	54.9	50.8
28/09/2023 03:15	51.3	71.4	52.4	49.6
28/09/2023 03:30	53.2	69.0	54.9	50.8
28/09/2023 03:45	53.3	65.7	54.8	51.0
28/09/2023 04:00	52.6	63.5	54.7	50.3
28/09/2023 04:15	52.9	80.9	53.4	50.1
28/09/2023 04:30	50.5	63.3	51.5	49.0
28/09/2023 04:45	50.0	57.5	50.7	49.1
28/09/2023 05:00	50.7	56.9	51.6	49.5

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 05:15	50.3	59.1	51.5	48.8
28/09/2023 05:30	50.4	61.0	51.6	48.6
28/09/2023 05:45	52.7	72.0	54.6	50.0
28/09/2023 06:00	52.0	60.8	54.4	49.7
28/09/2023 06:15	51.4	61.6	53.2	49.7
28/09/2023 06:30	53.3	61.0	56.0	49.8
28/09/2023 06:45	52.3	61.1	54.6	49.8
28/09/2023 07:00	52.0	68.4	54.0	49.8
28/09/2023 07:15	53.5	64.6	56.5	50.7
28/09/2023 07:30	52.2	64.1	54.8	49.5
28/09/2023 07:45	54.2	74.1	56.1	49.7
28/09/2023 08:00	52.9	60.9	55.2	50.7
28/09/2023 08:15	55.0	73.1	56.2	50.6
28/09/2023 08:30	53.8	72.1	55.2	50.4
28/09/2023 08:45	52.8	68.0	54.9	50.4
28/09/2023 09:00	52.2	69.2	54.5	49.5
28/09/2023 09:15	52.5	64.9	55.0	49.6
28/09/2023 09:30	55.9	83.9	56.2	49.8
28/09/2023 09:45	55.4	80.0	54.3	49.4
28/09/2023 10:00	51.6	64.3	53.2	49.5
28/09/2023 10:15	52.2	62.5	54.0	49.8
28/09/2023 10:30	52.2	64.0	54.8	49.4
28/09/2023 10:45	52.8	70.4	54.6	49.9
28/09/2023 11:00	58.9	82.2	55.2	49.8
28/09/2023 11:15	51.8	65.2	52.9	49.8
28/09/2023 11:30	57.0	79.8	56.1	50.1
28/09/2023 11:45	54.9	76.7	57.1	50.4
28/09/2023 12:00	53.4	68.3	55.2	50.8
28/09/2023 12:15	55.4	81.6	55.4	50.3
28/09/2023 12:30	54.1	75.5	56.2	50.6
28/09/2023 12:45	52.6	65.6	54.7	50.2

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 13:00	51.4	62.8	52.9	49.7
28/09/2023 13:15	53.5	68.2	56.2	49.9
28/09/2023 13:30	53.6	76.0	55.6	50.0
28/09/2023 13:45	54.1	74.7	55.8	49.8
28/09/2023 14:00	51.7	61.9	52.9	49.8
28/09/2023 14:15	54.1	66.5	57.0	50.2
28/09/2023 14:30	54.3	72.3	57.2	50.9
28/09/2023 14:45	52.4	62.6	54.1	50.4
28/09/2023 15:00	54.5	69.3	56.0	50.7
28/09/2023 15:15	53.4	67.9	55.9	50.4
28/09/2023 15:30	53.7	69.4	55.6	50.3
28/09/2023 15:45	54.0	66.8	55.9	51.6
28/09/2023 16:00	54.2	73.1	56.5	51.3
28/09/2023 16:15	55.7	77.8	56.0	50.8
28/09/2023 16:30	52.6	65.2	54.5	50.5
28/09/2023 16:45	51.9	67.4	52.9	50.4
28/09/2023 17:00	52.3	68.6	53.7	50.4
28/09/2023 17:15	52.9	69.2	54.1	50.9
28/09/2023 17:30	53.1	69.8	53.4	50.2
28/09/2023 17:45	52.1	61.8	53.3	50.4
28/09/2023 18:00	52.3	67.0	53.7	50.1
28/09/2023 18:15	51.5	62.4	52.4	50.0
28/09/2023 18:30	52.1	63.8	53.0	50.8
28/09/2023 18:45	52.1	63.1	52.7	50.6
28/09/2023 19:00	51.9	60.5	52.8	50.6
28/09/2023 19:15	51.9	60.5	52.6	50.7
28/09/2023 19:30	51.5	62.3	52.1	50.1
28/09/2023 19:45	51.2	61.6	51.9	50.0
28/09/2023 20:00	50.9	67.1	51.8	49.6
28/09/2023 20:15	51.6	70.1	52.5	49.7
28/09/2023 20:30	51.2	64.7	51.8	49.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 20:45	50.1	56.0	50.9	48.9
28/09/2023 21:00	51.2	66.0	52.5	49.0
28/09/2023 21:15	50.4	59.4	51.2	49.1
28/09/2023 21:30	51.2	67.7	52.2	48.8
28/09/2023 21:45	50.0	61.0	50.4	49.0
28/09/2023 22:00	49.9	56.7	50.6	49.0
28/09/2023 22:15	49.9	56.7	50.5	49.0
28/09/2023 22:30	50.9	62.9	50.9	49.0
28/09/2023 22:45	50.9	65.5	51.3	49.0
28/09/2023 23:00	49.9	54.1	50.5	49.2
28/09/2023 23:15	50.5	67.7	50.5	49.1
28/09/2023 23:30	49.8	55.3	50.3	49.0
28/09/2023 23:45	50.7	63.1	51.0	49.3
29/09/2023 00:00	49.8	51.8	50.2	49.1
29/09/2023 00:15	50.7	66.0	50.6	49.1
29/09/2023 00:30	50.4	62.8	50.4	49.0
29/09/2023 00:45	49.7	51.4	50.3	49.0
29/09/2023 01:00	50.9	65.9	50.6	49.2
29/09/2023 01:15	51.2	69.2	50.7	49.3
29/09/2023 01:30	49.6	51.7	50.1	49.0
29/09/2023 01:45	49.5	51.6	50.0	48.8
29/09/2023 02:00	50.0	51.3	50.3	49.4
29/09/2023 02:15	50.2	56.7	50.5	49.7
29/09/2023 02:30	50.2	52.0	50.6	49.6
29/09/2023 02:45	51.1	53.1	51.7	50.4
29/09/2023 03:00	51.9	58.7	52.4	51.2
29/09/2023 03:15	51.7	58.0	52.1	50.9
29/09/2023 03:30	51.0	59.9	51.4	50.3
29/09/2023 03:45	51.1	68.8	51.2	50.2
29/09/2023 04:00	51.5	53.8	52.0	50.9
29/09/2023 04:15	51.5	53.4	52.0	50.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 04:30	51.1	57.0	51.7	50.3
29/09/2023 04:45	51.7	58.6	52.2	50.9
29/09/2023 05:00	51.8	59.9	52.2	51.2
29/09/2023 05:15	52.5	63.4	53.9	51.2
29/09/2023 05:30	52.4	59.0	53.5	51.2
29/09/2023 05:45	52.7	61.6	54.8	50.7
29/09/2023 06:00	52.2	60.8	54.0	50.4
29/09/2023 06:15	51.7	60.3	53.3	50.3
29/09/2023 06:30	52.8	62.4	54.8	50.6
29/09/2023 06:45	53.0	64.9	55.3	50.5
29/09/2023 07:00	52.6	61.6	55.0	50.6
29/09/2023 07:15	52.4	61.0	54.2	50.6
29/09/2023 07:30	53.5	66.6	55.7	50.8
29/09/2023 07:45	54.1	66.5	56.6	51.2
29/09/2023 08:00	58.8	86.4	58.5	50.9
29/09/2023 08:15	57.5	83.0	56.9	51.8
29/09/2023 08:30	56.2	81.6	58.3	50.8
29/09/2023 08:45	53.3	68.0	55.9	50.6
29/09/2023 09:00	52.7	72.4	55.2	50.1
29/09/2023 09:15	52.8	64.7	54.2	50.9
29/09/2023 09:30	56.0	79.8	56.4	51.7
29/09/2023 09:45	54.9	71.3	57.2	52.2
29/09/2023 10:00	69.3	90.4	57.9	51.6
29/09/2023 10:15	53.8	62.0	56.0	51.7
29/09/2023 10:30	55.5	71.3	57.9	52.5
29/09/2023 10:45	58.0	73.0	58.8	56.8
29/09/2023 11:00	57.8	87.0	58.3	51.8
29/09/2023 11:15	55.5	79.1	56.0	51.6
29/09/2023 11:30	60.2	80.9	59.8	52.2
29/09/2023 11:45	56.1	79.0	56.8	52.2
29/09/2023 12:00	60.0	78.7	60.2	52.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 12:15	56.7	78.9	55.1	51.6
29/09/2023 12:30	54.3	70.0	56.9	51.4
29/09/2023 12:45	54.0	63.0	55.6	51.9
29/09/2023 13:00	59.2	80.1	56.5	52.4
29/09/2023 13:15	56.0	77.4	57.2	52.2
29/09/2023 13:30	58.4	82.1	58.7	52.4
29/09/2023 13:45	54.2	63.5	56.2	52.1
29/09/2023 14:00	53.9	62.1	55.1	52.4
29/09/2023 14:15	53.7	63.1	54.9	52.2
29/09/2023 14:30	53.7	69.2	55.3	52.0
29/09/2023 14:45	53.5	64.3	54.7	52.0
29/09/2023 15:00	55.2	72.4	57.2	52.1
29/09/2023 15:15	57.5	78.4	57.9	52.2
29/09/2023 15:30	56.3	78.5	57.6	52.9
29/09/2023 15:45	54.1	78.5	55.1	51.9
29/09/2023 16:00	58.1	81.0	57.1	51.7
29/09/2023 16:15	53.0	64.4	53.8	51.8
29/09/2023 16:30	53.4	68.1	55.0	51.3
29/09/2023 16:45	52.5	69.5	53.5	50.5
29/09/2023 17:00	52.8	67.7	53.9	50.5
29/09/2023 17:15	50.9	62.5	51.6	50.1
29/09/2023 17:30	51.9	64.9	52.8	50.2
29/09/2023 17:45	54.5	70.8	54.2	49.9
29/09/2023 18:00	51.3	63.8	51.9	49.0
29/09/2023 18:15	52.0	65.3	53.8	49.2
29/09/2023 18:30	51.6	64.6	53.0	49.4
29/09/2023 18:45	49.5	52.8	49.9	48.9
29/09/2023 19:00	49.9	57.5	50.4	48.9
29/09/2023 19:15	50.5	64.2	51.6	48.9
29/09/2023 19:30	49.7	57.7	50.8	48.7
29/09/2023 19:45	49.1	51.8	49.6	48.6

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 20:00	50.2	60.3	51.3	49.2
29/09/2023 20:15	49.6	58.6	49.9	48.8
29/09/2023 20:30	49.8	55.4	50.3	49.0
29/09/2023 20:45	50.7	67.0	50.6	49.0
29/09/2023 21:00	51.3	63.0	52.0	49.1
29/09/2023 21:15	49.5	52.4	49.9	49.1
29/09/2023 21:30	50.7	68.1	50.4	49.1
29/09/2023 21:45	49.7	56.7	50.2	49.1
29/09/2023 22:00	49.5	60.6	49.7	48.8
29/09/2023 22:15	49.6	54.8	49.9	48.9
29/09/2023 22:30	49.9	58.2	50.5	49.1
29/09/2023 22:45	51.3	65.7	52.0	48.7
29/09/2023 23:00	50.5	66.5	50.3	48.8
29/09/2023 23:15	50.5	64.4	50.4	49.0
29/09/2023 23:30	51.1	65.2	51.1	48.7
29/09/2023 23:45	50.5	64.5	50.0	48.7
30/09/2023 00:00	49.3	50.9	49.7	48.9
30/09/2023 00:15	49.9	53.7	50.3	49.3
30/09/2023 00:30	50.6	65.0	50.0	49.1
30/09/2023 00:45	50.8	65.7	50.2	49.1
30/09/2023 01:00	50.7	66.0	50.0	48.8
30/09/2023 01:15	49.4	53.2	49.7	48.9
30/09/2023 01:30	50.0	58.7	50.4	49.2
30/09/2023 01:45	49.9	52.0	50.4	49.3
30/09/2023 02:00	49.8	52.5	50.2	49.2
30/09/2023 02:15	49.5	51.0	49.8	49.0
30/09/2023 02:30	49.0	51.3	49.4	48.5
30/09/2023 02:45	50.1	65.9	49.6	48.4
30/09/2023 03:00	49.2	52.3	49.6	48.8
30/09/2023 03:15	50.2	63.0	50.0	48.9
30/09/2023 03:30	49.4	50.9	49.8	48.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 03:45	49.1	52.3	49.5	48.6
30/09/2023 04:00	48.8	51.9	49.2	48.3
30/09/2023 04:15	48.8	51.0	49.2	48.4
30/09/2023 04:30	49.2	58.6	49.5	48.5
30/09/2023 04:45	49.0	59.5	49.1	48.2
30/09/2023 05:00	48.7	55.8	49.1	48.1
30/09/2023 05:15	49.0	58.2	49.5	48.0
30/09/2023 05:30	49.2	56.2	49.8	48.2
30/09/2023 05:45	50.0	66.0	50.6	48.3
30/09/2023 06:00	50.3	57.6	52.1	48.6
30/09/2023 06:15	50.6	61.6	52.3	48.7
30/09/2023 06:30	50.7	60.9	51.5	49.3
30/09/2023 06:45	53.0	71.9	53.0	50.1
30/09/2023 07:00	50.8	60.5	51.2	49.7
30/09/2023 07:15	51.1	62.0	52.1	49.5
30/09/2023 07:30	51.7	65.2	52.4	49.7
30/09/2023 07:45	52.0	62.5	52.7	50.4
30/09/2023 08:00	52.1	74.2	53.0	50.0
30/09/2023 08:15	52.3	64.7	53.5	50.4
30/09/2023 08:30	52.6	62.2	54.3	50.6
30/09/2023 08:45	51.9	61.9	53.2	50.2
30/09/2023 09:00	53.1	67.5	54.2	50.1
30/09/2023 09:15	53.7	72.5	55.7	50.1
30/09/2023 09:30	52.5	65.7	53.5	50.4
30/09/2023 09:45	52.9	70.6	55.0	50.1
30/09/2023 10:00	52.9	67.9	54.7	49.9
30/09/2023 10:15	57.2	80.0	54.0	49.2
30/09/2023 10:30	51.8	66.3	54.6	48.4
30/09/2023 10:45	50.3	70.1	51.0	48.3
30/09/2023 11:00	53.7	75.9	52.9	49.4
30/09/2023 11:15	54.8	70.1	57.6	50.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 11:30	51.6	67.9	52.6	49.8
30/09/2023 11:45	53.1	66.1	55.5	49.8
30/09/2023 12:00	53.1	69.9	55.5	49.3
30/09/2023 12:15	54.4	76.6	53.7	48.8
30/09/2023 12:30	53.2	69.4	55.5	49.3
30/09/2023 12:45	52.8	69.2	54.5	49.8
30/09/2023 13:00	52.7	77.9	54.0	49.6
30/09/2023 13:15	52.1	66.7	54.7	49.3
30/09/2023 13:30	50.7	66.5	51.7	49.0
30/09/2023 13:45	51.6	61.1	52.7	49.7
30/09/2023 14:00	52.4	60.1	54.0	49.9
30/09/2023 14:15	54.2	76.1	55.8	51.2
30/09/2023 14:30	51.3	69.4	52.2	48.5
30/09/2023 14:45	54.2	67.8	56.9	50.5
30/09/2023 15:00	53.3	65.0	55.2	51.2
30/09/2023 15:15	54.2	66.0	55.1	51.5
30/09/2023 15:30	53.1	63.2	54.3	51.6
30/09/2023 15:45	55.2	75.5	56.0	52.6
30/09/2023 16:00	55.3	70.0	57.5	52.4
30/09/2023 16:15	53.8	70.1	54.9	52.3
30/09/2023 16:30	53.4	65.0	54.4	52.2
30/09/2023 16:45	53.5	72.2	54.8	52.0
30/09/2023 17:00	56.2	75.4	58.3	53.5
30/09/2023 17:15	61.4	81.0	62.0	54.2
30/09/2023 17:30	55.7	71.2	57.7	52.2
30/09/2023 17:45	53.5	61.5	54.6	52.1
30/09/2023 18:00	53.5	64.5	54.5	51.7
30/09/2023 18:15	53.4	67.1	54.2	51.4
30/09/2023 18:30	60.3	81.4	54.6	51.2
30/09/2023 18:45	51.8	58.9	52.7	50.6
30/09/2023 19:00	51.2	60.2	52.1	50.0

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 19:15	50.7	62.9	51.7	49.5
30/09/2023 19:30	52.1	65.4	53.3	49.7
30/09/2023 19:45	51.0	60.2	52.2	49.8
30/09/2023 20:00	52.4	69.2	52.6	49.9
30/09/2023 20:15	51.5	64.9	52.2	49.6
30/09/2023 20:30	51.1	59.3	52.5	49.4
30/09/2023 20:45	50.4	58.0	51.3	49.3
30/09/2023 21:00	50.4	68.5	51.1	49.2
30/09/2023 21:15	51.1	65.3	52.2	49.1
30/09/2023 21:30	50.5	60.4	51.0	49.0
30/09/2023 21:45	49.8	57.7	50.4	48.7
30/09/2023 22:00	49.9	61.1	50.9	48.6
30/09/2023 22:15	52.5	72.3	51.4	48.0
30/09/2023 22:30	49.2	61.6	49.9	48.0
30/09/2023 22:45	49.3	55.4	50.1	48.2
30/09/2023 23:00	49.7	60.7	50.4	48.8
30/09/2023 23:15	50.1	67.2	50.6	49.0
30/09/2023 23:30	49.4	53.6	50.1	48.5
30/09/2023 23:45	49.4	53.2	50.1	48.5
01/10/2023 00:00	49.4	52.0	50.0	48.7
01/10/2023 00:15	49.2	57.0	49.9	48.2
01/10/2023 00:30	49.2	52.6	49.8	48.4
01/10/2023 00:45	50.4	64.5	50.2	48.5
01/10/2023 01:00	49.2	54.5	49.9	48.3
01/10/2023 01:15	50.2	64.3	50.3	48.5
01/10/2023 01:30	50.2	63.6	50.2	48.7
01/10/2023 01:45	49.2	53.5	49.9	48.4
01/10/2023 02:00	50.4	66.5	50.2	48.9
01/10/2023 02:15	50.6	65.9	50.9	48.9
01/10/2023 02:30	50.5	63.9	50.4	48.9
01/10/2023 02:45	49.5	57.4	50.1	48.8

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 03:00	49.5	53.3	50.0	48.8
01/10/2023 03:15	49.5	57.8	50.0	48.7
01/10/2023 03:30	58.9	73.0	61.9	54.0
01/10/2023 03:45	58.1	73.1	60.3	52.9
01/10/2023 04:00	57.7	72.5	60.6	53.2
01/10/2023 04:15	52.8	72.4	54.5	50.0
01/10/2023 04:30	51.5	61.0	53.2	49.6
01/10/2023 04:45	50.5	60.7	50.9	49.4
01/10/2023 05:00	50.5	60.9	50.9	49.5
01/10/2023 05:15	50.0	57.0	50.5	49.3
01/10/2023 05:30	50.7	66.5	51.0	49.3
01/10/2023 05:45	51.0	64.2	51.9	49.4
01/10/2023 06:00	50.3	60.3	51.1	49.1
01/10/2023 06:15	50.3	57.2	51.2	49.3
01/10/2023 06:30	50.8	65.4	50.6	49.3
01/10/2023 06:45	51.3	62.4	52.5	49.5
01/10/2023 07:00	52.3	69.9	52.9	49.7
01/10/2023 07:15	52.0	61.7	54.3	49.7
01/10/2023 07:30	50.4	58.9	51.2	49.2
01/10/2023 07:45	52.0	63.5	53.8	49.8
01/10/2023 08:00	51.3	63.3	52.3	49.8
01/10/2023 08:15	52.4	66.6	54.7	49.7
01/10/2023 08:30	51.2	60.9	52.4	49.7
01/10/2023 08:45	51.5	64.7	52.7	49.2
01/10/2023 09:00	51.1	64.4	52.2	49.8
01/10/2023 09:15	51.3	60.8	52.5	49.6
01/10/2023 09:30	55.6	68.5	59.2	49.8
01/10/2023 09:45	53.0	62.9	54.4	50.6
01/10/2023 10:00	52.4	71.2	54.4	50.4
01/10/2023 10:15	52.4	65.8	54.1	50.2
01/10/2023 10:30	52.8	67.6	54.6	50.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 10:45	53.1	66.8	54.8	51.0
01/10/2023 11:00	51.0	61.0	51.3	49.7
01/10/2023 11:15	51.7	66.0	52.7	49.7
01/10/2023 11:30	52.8	65.6	55.0	50.1
01/10/2023 11:45	52.1	66.0	54.0	49.8
01/10/2023 12:00	54.3	73.8	57.1	49.9
01/10/2023 12:15	55.2	72.7	56.4	49.8
01/10/2023 12:30	50.7	60.3	51.5	49.3
01/10/2023 12:45	51.2	62.1	51.8	49.4
01/10/2023 13:00	51.2	66.9	52.4	49.6
01/10/2023 13:15	52.1	72.3	51.6	49.6
01/10/2023 13:30	52.8	74.5	54.3	49.5
01/10/2023 13:45	52.5	74.2	52.9	49.4
01/10/2023 14:00	54.5	69.9	58.1	49.8
01/10/2023 14:15	51.3	65.1	52.1	49.5
01/10/2023 14:30	49.8	54.7	50.6	49.0
01/10/2023 14:45	50.6	63.0	51.2	49.0
01/10/2023 15:00	51.2	66.1	52.2	49.1
01/10/2023 15:15	51.2	70.4	51.5	49.1
01/10/2023 15:30	52.0	64.8	53.8	49.8
01/10/2023 15:45	50.3	54.9	50.7	49.7
01/10/2023 16:00	52.1	68.6	52.4	50.2
01/10/2023 16:15	54.6	75.4	56.8	50.9
01/10/2023 16:30	53.7	68.5	54.9	50.4
01/10/2023 16:45	60.2	89.8	56.9	50.3
01/10/2023 17:00	53.9	77.8	52.7	50.3
01/10/2023 17:15	51.4	59.8	52.1	50.5
01/10/2023 17:30	51.7	59.8	52.2	50.7
01/10/2023 17:45	51.4	63.8	52.1	50.5
01/10/2023 18:00	51.1	57.8	51.4	50.7
01/10/2023 18:15	51.3	62.6	51.2	50.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 18:30	51.8	63.6	51.7	50.2
01/10/2023 18:45	52.2	64.6	53.0	50.5
01/10/2023 19:00	51.0	60.0	51.2	50.3
01/10/2023 19:15	51.1	57.4	51.6	50.5
01/10/2023 19:30	51.1	53.8	51.5	50.6
01/10/2023 19:45	51.1	58.8	51.5	50.4
01/10/2023 20:00	52.2	65.9	54.0	50.0
01/10/2023 20:15	50.6	55.1	51.0	50.0
01/10/2023 20:30	50.5	54.5	50.8	50.0
01/10/2023 20:45	49.9	51.5	50.2	49.4
01/10/2023 21:00	51.1	64.9	51.8	49.1
01/10/2023 21:15	51.5	64.1	52.1	49.7
01/10/2023 21:30	51.6	64.5	51.7	49.9
01/10/2023 21:45	50.8	66.3	50.7	49.5
01/10/2023 22:00	50.2	57.6	50.5	49.6
01/10/2023 22:15	50.2	63.5	50.6	49.2
01/10/2023 22:30	49.9	56.2	50.3	49.4
01/10/2023 22:45	50.5	63.3	50.6	49.1
01/10/2023 23:00	49.8	63.9	49.7	48.5
01/10/2023 23:15	49.1	51.7	49.5	48.5
01/10/2023 23:30	51.0	64.6	51.2	49.1
01/10/2023 23:45	50.8	65.3	50.4	48.9
02/10/2023 00:00	49.2	50.5	49.6	48.7
02/10/2023 00:15	49.5	51.7	49.9	49.0
02/10/2023 00:30	49.5	53.8	49.8	48.9
02/10/2023 00:45	50.5	64.7	50.2	49.1
02/10/2023 01:00	50.9	63.0	50.8	49.2
02/10/2023 01:15	49.2	50.3	49.5	48.7
02/10/2023 01:30	49.3	54.9	49.7	48.7
02/10/2023 01:45	50.3	65.1	49.9	48.7
02/10/2023 02:00	50.1	56.0	50.5	49.5

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
02/10/2023 02:15	50.7	64.6	50.7	49.7
02/10/2023 02:30	49.8	52.3	50.2	49.1
02/10/2023 02:45	49.3	50.8	49.6	48.9
02/10/2023 03:00	49.3	50.6	49.7	48.8
02/10/2023 03:15	49.3	53.0	49.8	48.7
02/10/2023 03:30	48.7	50.4	49.2	48.0
02/10/2023 03:45	48.7	53.9	49.2	48.0
02/10/2023 04:00	48.8	52.3	49.4	48.1
02/10/2023 04:15	48.9	50.6	49.4	48.3
02/10/2023 04:30	49.2	53.6	49.6	48.5
02/10/2023 04:45	49.2	50.4	49.6	48.6
02/10/2023 05:00	50.1	61.5	50.7	48.8
02/10/2023 05:15	50.0	56.6	51.0	49.1
02/10/2023 05:30	50.7	59.8	51.8	49.0
02/10/2023 05:45	51.4	62.0	53.1	49.6
02/10/2023 06:00	51.5	63.1	52.9	49.6
02/10/2023 06:15	51.6	62.0	53.1	49.8
02/10/2023 06:30	52.0	64.1	53.6	50.0
02/10/2023 06:45	59.3	83.5	55.7	50.2
02/10/2023 07:00	52.2	60.4	54.2	50.0
02/10/2023 07:15	52.5	62.6	54.6	50.3
02/10/2023 07:30	54.3	73.8	57.0	50.5
02/10/2023 07:45	52.8	68.4	54.6	50.7
02/10/2023 08:00	65.0	91.2	62.4	51.3
02/10/2023 08:15	53.9	67.7	56.4	50.7
02/10/2023 08:30	58.3	84.3	58.8	51.3
02/10/2023 08:45	55.4	79.1	56.8	50.4
02/10/2023 09:00	52.9	66.5	55.4	49.8
02/10/2023 09:15	54.4	67.6	58.0	49.9
02/10/2023 09:30	55.1	66.9	58.3	50.0
02/10/2023 09:45	53.9	76.8	56.6	49.8

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
02/10/2023 10:00	53.2	76.0	55.4	49.8
02/10/2023 10:15	54.2	76.6	55.8	50.1
02/10/2023 10:30	54.4	75.2	57.4	49.7
02/10/2023 10:45	51.0	64.3	52.3	49.4
02/10/2023 11:00	52.7	70.2	55.0	49.6
02/10/2023 11:15	53.6	66.5	56.9	49.6
02/10/2023 11:30	53.5	74.2	55.7	49.9
02/10/2023 11:45	53.2	63.5	56.4	49.5
02/10/2023 12:00	53.2	63.9	56.3	49.6
02/10/2023 12:15	52.9	65.1	55.8	49.4
02/10/2023 12:30	53.3	72.8	56.0	50.0
02/10/2023 12:45	56.2	76.9	58.6	49.9
02/10/2023 13:00	54.7	76.5	55.9	50.0

Table 05-03
Westfield Road (1.5m)

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 13:15	61.3	79.1	64.2	55.0
27/09/2023 13:30	60.3	72.9	63.0	54.0
27/09/2023 13:45	60.3	73.4	63.1	55.0
27/09/2023 14:00	60.9	71.7	63.4	55.5
27/09/2023 14:15	61.7	76.1	64.3	55.0
27/09/2023 14:30	62.4	72.1	65.3	56.7
27/09/2023 14:45	62.6	84.2	64.6	56.1
27/09/2023 15:00	62.2	75.7	65.3	57.0
27/09/2023 15:15	61.9	73.3	64.8	56.3
27/09/2023 15:30	61.9	72.0	64.4	57.3
27/09/2023 15:45	62.7	72.5	65.6	57.3
27/09/2023 16:00	62.7	72.6	65.6	57.5
27/09/2023 16:15	62.3	74.7	65.1	56.8
27/09/2023 16:30	62.3	72.1	65.2	56.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 16:45	62.0	72.0	64.8	56.4
27/09/2023 17:00	63.5	74.5	66.2	58.8
27/09/2023 17:15	63.2	75.9	66.0	57.9
27/09/2023 17:30	62.3	71.4	65.2	57.1
27/09/2023 17:45	61.9	77.3	64.8	56.6
27/09/2023 18:00	61.3	73.4	63.9	56.4
27/09/2023 18:15	61.9	71.2	64.7	56.5

Table 05-04
Westfield Road (4m)

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 13:00	64.6	76.3	67.7	57.0
27/09/2023 13:15	65.5	82.0	68.6	57.9
27/09/2023 13:30	64.6	76.4	67.7	56.6
27/09/2023 13:45	64.7	75.9	67.8	57.5
27/09/2023 14:00	65.2	76.1	68.2	58.1
27/09/2023 14:15	65.9	80.7	69.0	57.9
27/09/2023 14:30	66.8	77.1	70.3	59.8
27/09/2023 14:45	66.9	88.2	69.4	58.7
27/09/2023 15:00	66.4	80.3	69.8	59.7
27/09/2023 15:15	66.3	76.7	69.8	58.9
27/09/2023 15:30	66.1	76.8	69.0	60.1
27/09/2023 15:45	66.7	76.8	70.0	59.6
27/09/2023 16:00	66.6	77.3	69.9	60.0
27/09/2023 16:15	65.7	76.3	68.7	59.2
27/09/2023 16:30	66.0	80.2	69.1	58.7
27/09/2023 16:45	65.4	77.3	68.2	58.9
27/09/2023 17:00	66.8	78.6	69.9	61.1
27/09/2023 17:15	66.3	78.5	69.6	59.6
27/09/2023 17:30	65.7	75.5	69.0	59.4
27/09/2023 17:45	65.0	77.5	68.2	58.6

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
27/09/2023 18:00	64.4	77.3	67.2	58.1
27/09/2023 18:15	64.6	76.6	67.9	57.6
27/09/2023 18:30	63.7	75.9	67.2	56.9
27/09/2023 18:45	67.5	85.3	70.8	58.0
27/09/2023 19:00	63.0	76.7	66.1	54.4
27/09/2023 19:15	61.8	74.7	65.1	54.3
27/09/2023 19:30	62.2	76.6	65.8	53.4
27/09/2023 19:45	62.5	75.7	66.2	53.9
27/09/2023 20:00	60.8	75.8	64.7	52.4
27/09/2023 20:15	62.4	77.6	65.7	54.6
27/09/2023 20:30	64.1	90.1	64.7	53.8
27/09/2023 20:45	61.2	74.3	64.4	54.8
27/09/2023 21:00	62.0	79.3	64.5	53.8
27/09/2023 21:15	62.2	76.6	65.2	55.3
27/09/2023 21:30	61.7	78.7	64.9	54.8
27/09/2023 21:45	60.6	77.4	63.2	54.0
27/09/2023 22:00	59.9	75.9	62.4	54.1
27/09/2023 22:15	60.3	76.0	63.0	54.0
27/09/2023 22:30	59.6	76.1	62.2	52.4
27/09/2023 22:45	61.1	75.1	64.7	52.1
27/09/2023 23:00	58.7	75.4	62.1	50.9
27/09/2023 23:15	58.3	77.4	60.8	50.3
27/09/2023 23:30	57.5	76.0	57.8	48.0
27/09/2023 23:45	57.0	72.3	60.5	47.5
28/09/2023 00:00	56.0	72.3	59.5	47.7
28/09/2023 00:15	54.7	72.6	56.0	46.9
28/09/2023 00:30	52.5	68.6	54.3	47.2
28/09/2023 00:45	50.3	61.3	52.6	46.7
28/09/2023 01:00	56.2	72.3	58.3	48.1
28/09/2023 01:15	54.8	76.0	55.0	48.7
28/09/2023 01:30	55.0	73.6	54.3	48.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 01:45	56.7	77.6	55.3	49.0
28/09/2023 02:00	57.0	74.8	59.4	49.6
28/09/2023 02:15	56.4	73.8	58.3	49.8
28/09/2023 02:30	57.5	76.4	59.2	51.0
28/09/2023 02:45	56.0	69.5	57.7	51.7
28/09/2023 03:00	57.0	74.0	58.6	52.9
28/09/2023 03:15	56.9	74.3	58.2	51.8
28/09/2023 03:30	57.3	73.2	58.4	52.6
28/09/2023 03:45	57.4	72.7	58.4	53.5
28/09/2023 04:00	54.9	67.2	56.3	51.7
28/09/2023 04:15	57.7	73.1	59.4	51.3
28/09/2023 04:30	55.8	75.1	55.9	49.2
28/09/2023 04:45	57.2	75.3	59.5	49.2
28/09/2023 05:00	58.3	77.0	60.8	50.5
28/09/2023 05:15	59.1	78.0	61.7	51.4
28/09/2023 05:30	59.8	73.2	63.1	51.6
28/09/2023 05:45	61.8	76.2	64.4	54.8
28/09/2023 06:00	62.7	76.8	65.4	55.6
28/09/2023 06:15	62.9	76.9	66.0	55.3
28/09/2023 06:30	63.9	75.2	67.1	56.2
28/09/2023 06:45	64.0	77.1	67.3	55.9
28/09/2023 07:00	64.0	76.3	67.3	56.3
28/09/2023 07:15	65.6	76.4	69.1	58.5
28/09/2023 07:30	66.2	78.9	69.6	60.1
28/09/2023 07:45	66.3	75.5	69.5	60.6
28/09/2023 08:00	66.0	78.9	69.1	59.7
28/09/2023 08:15	65.7	76.6	69.3	60.1
28/09/2023 08:30	65.7	75.3	69.0	59.3
28/09/2023 08:45	66.3	76.0	69.2	60.8
28/09/2023 09:00	65.0	76.4	68.4	58.6
28/09/2023 09:15	64.2	80.0	66.9	58.0

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 09:30	64.6	75.1	68.0	57.0
28/09/2023 09:45	65.6	79.6	69.1	58.2
28/09/2023 10:00	64.8	76.0	68.2	57.9
28/09/2023 10:15	65.0	75.5	68.4	57.9
28/09/2023 10:30	64.3	76.4	67.5	57.7
28/09/2023 10:45	64.5	75.8	67.8	56.6
28/09/2023 11:00	65.3	77.4	68.7	58.0
28/09/2023 11:15	63.5	75.1	66.6	56.9
28/09/2023 11:30	64.8	77.1	68.0	57.9
28/09/2023 11:45	65.1	79.5	68.6	57.0
28/09/2023 12:00	64.1	79.9	67.4	56.8
28/09/2023 12:15	64.4	76.3	67.6	57.3
28/09/2023 12:30	64.1	77.6	67.3	56.8
28/09/2023 12:45	64.6	77.2	67.9	57.9
28/09/2023 13:00	63.8	76.4	67.2	55.7
28/09/2023 13:15	64.8	77.8	68.0	56.7
28/09/2023 13:30	64.6	76.0	68.1	57.2
28/09/2023 13:45	64.8	76.2	68.6	56.5
28/09/2023 14:00	66.5	87.2	69.1	58.6
28/09/2023 14:15	64.1	75.3	67.4	57.4
28/09/2023 14:30	66.2	76.9	69.8	56.9
28/09/2023 14:45	65.4	84.5	68.4	58.0
28/09/2023 15:00	65.8	76.8	69.2	58.6
28/09/2023 15:15	65.2	75.6	68.6	58.9
28/09/2023 15:30	65.2	76.3	67.8	59.1
28/09/2023 15:45	66.1	76.4	69.4	59.5
28/09/2023 16:00	65.7	75.0	69.2	59.0
28/09/2023 16:15	66.8	78.2	70.0	60.1
28/09/2023 16:30	66.2	77.0	68.8	60.4
28/09/2023 16:45	65.0	78.2	68.0	58.3
28/09/2023 17:00	65.8	75.2	68.7	59.2

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
28/09/2023 17:15	65.4	75.3	68.6	58.9
28/09/2023 17:30	65.7	78.1	68.7	58.6
28/09/2023 17:45	65.8	79.9	69.3	58.1
28/09/2023 18:00	63.6	74.7	67.3	56.1
28/09/2023 18:15	62.9	76.0	66.1	54.3
28/09/2023 18:30	63.8	77.4	67.2	55.2
28/09/2023 18:45	64.2	77.1	67.6	55.3
28/09/2023 19:00	61.5	83.0	64.5	54.4
28/09/2023 19:15	65.5	82.2	65.6	56.4
28/09/2023 19:30	64.6	74.9	66.8	60.5
28/09/2023 19:45	68.3	79.7	69.2	63.9
28/09/2023 20:00	68.3	80.9	71.7	62.8
28/09/2023 20:15	70.1	83.0	73.4	64.7
28/09/2023 20:30	73.6	85.0	76.6	67.2
28/09/2023 20:45	72.9	83.5	76.5	59.9
28/09/2023 21:00	61.0	73.3	63.6	54.7
28/09/2023 21:15	57.5	69.8	60.6	52.6
28/09/2023 21:30	59.7	71.8	62.9	54.3
28/09/2023 21:45	60.7	81.7	63.1	53.5
28/09/2023 22:00	58.2	73.7	59.8	54.8
28/09/2023 22:15	61.0	70.3	63.9	54.8
28/09/2023 22:30	66.8	76.8	69.0	63.4
28/09/2023 22:45	72.4	83.6	76.0	66.7
28/09/2023 23:00	76.8	89.9	80.8	57.1
28/09/2023 23:15	65.2	79.4	67.9	52.6
28/09/2023 23:30	53.8	69.9	55.9	47.5
28/09/2023 23:45	57.9	75.0	61.5	48.4
29/09/2023 00:00	55.5	71.9	58.2	48.0
29/09/2023 00:15	56.7	77.4	58.1	47.5
29/09/2023 00:30	54.1	69.5	56.1	46.6
29/09/2023 00:45	53.2	72.8	53.4	46.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 01:00	57.3	73.3	60.9	47.3
29/09/2023 01:15	56.1	75.6	58.3	47.2
29/09/2023 01:30	55.8	76.6	57.8	47.5
29/09/2023 01:45	53.4	70.7	55.0	47.1
29/09/2023 02:00	54.5	73.2	53.7	46.9
29/09/2023 02:15	51.8	69.3	52.3	46.8
29/09/2023 02:30	52.0	67.4	54.1	47.9
29/09/2023 02:45	51.5	69.2	52.0	47.0
29/09/2023 03:00	52.3	68.9	54.6	47.1
29/09/2023 03:15	54.9	74.0	54.8	47.1
29/09/2023 03:30	55.5	72.3	58.7	47.8
29/09/2023 03:45	55.4	73.3	56.1	47.3
29/09/2023 04:00	52.9	70.5	53.8	47.3
29/09/2023 04:15	58.3	80.8	58.6	47.9
29/09/2023 04:30	52.2	66.6	54.1	48.0
29/09/2023 04:45	55.5	72.6	58.0	48.2
29/09/2023 05:00	56.8	71.8	59.8	49.1
29/09/2023 05:15	57.3	70.3	61.3	50.0
29/09/2023 05:30	58.9	72.8	62.4	50.4
29/09/2023 05:45	61.0	79.4	63.9	51.9
29/09/2023 06:00	60.9	73.3	64.4	52.5
29/09/2023 06:15	62.6	78.1	65.6	53.7
29/09/2023 06:30	63.1	73.2	66.2	56.0
29/09/2023 06:45	64.5	76.9	67.2	58.1
29/09/2023 07:00	63.6	77.1	66.7	55.8
29/09/2023 07:15	64.8	75.9	67.9	58.6
29/09/2023 07:30	65.1	76.3	68.2	58.6
29/09/2023 07:45	65.7	74.3	68.7	59.5
29/09/2023 08:00	65.4	77.6	68.6	58.6
29/09/2023 08:15	66.7	80.6	70.0	59.9
29/09/2023 08:30	65.8	74.8	68.9	59.4

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 08:45	66.0	79.8	68.9	58.6
29/09/2023 09:00	64.6	75.1	67.5	58.4
29/09/2023 09:15	64.3	74.3	67.3	58.5
29/09/2023 09:30	63.6	79.4	66.2	57.7
29/09/2023 09:45	64.2	75.6	67.9	57.6
29/09/2023 10:00	64.5	81.4	67.4	56.8
29/09/2023 10:15	62.8	74.8	65.6	56.8
29/09/2023 10:30	63.3	76.2	66.3	56.3
29/09/2023 10:45	63.4	75.2	66.4	56.8
29/09/2023 11:00	63.6	76.0	66.6	57.6
29/09/2023 11:15	62.8	73.7	65.8	56.7
29/09/2023 11:30	64.0	81.7	66.8	57.8
29/09/2023 11:45	64.3	76.9	67.9	57.4
29/09/2023 12:00	64.6	74.9	68.1	57.7
29/09/2023 12:15	63.6	76.9	66.8	56.3
29/09/2023 12:30	63.7	78.2	66.9	56.8
29/09/2023 12:45	64.1	76.9	67.4	57.0
29/09/2023 13:00	62.8	74.4	65.7	56.5
29/09/2023 13:15	63.6	76.7	66.3	57.1
29/09/2023 13:30	63.7	75.9	66.9	57.5
29/09/2023 13:45	63.7	76.6	66.7	56.6
29/09/2023 14:00	63.7	76.5	66.6	57.5
29/09/2023 14:15	63.8	77.0	67.1	56.5
29/09/2023 14:30	63.5	79.5	66.6	56.9
29/09/2023 14:45	62.8	75.6	65.8	56.3
29/09/2023 15:00	64.6	76.3	67.9	57.6
29/09/2023 15:15	64.1	74.9	67.5	56.9
29/09/2023 15:30	64.5	79.3	67.4	57.2
29/09/2023 15:45	64.2	79.5	67.1	57.1
29/09/2023 16:00	63.8	73.5	67.1	56.3
29/09/2023 16:15	64.1	76.5	67.1	56.7

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
29/09/2023 16:30	63.8	74.3	67.1	56.3
29/09/2023 16:45	62.5	81.8	66.0	53.0
29/09/2023 17:00	64.7	82.8	68.0	55.9
29/09/2023 17:15	62.7	77.4	65.8	54.6
29/09/2023 17:30	63.2	74.4	67.0	54.2
29/09/2023 17:45	62.8	72.4	66.6	53.0
29/09/2023 18:00	62.7	76.3	66.2	55.3
29/09/2023 18:15	62.9	74.5	66.4	54.7
29/09/2023 18:30	62.2	75.0	65.5	54.5
29/09/2023 18:45	61.9	74.2	65.4	54.9
29/09/2023 19:00	62.5	74.9	66.0	53.6
29/09/2023 19:15	61.7	78.0	64.8	54.2
29/09/2023 19:30	60.1	74.2	63.0	53.1
29/09/2023 19:45	61.0	74.9	64.5	51.5
29/09/2023 20:00	60.3	75.4	63.8	53.1
29/09/2023 20:15	59.0	71.9	62.9	50.7
29/09/2023 20:30	59.5	76.7	62.1	51.0
29/09/2023 20:45	59.3	73.3	62.9	51.0
29/09/2023 21:00	59.8	72.9	64.0	49.7
29/09/2023 21:15	59.6	75.8	62.8	50.6
29/09/2023 21:30	60.2	74.2	63.8	50.1
29/09/2023 21:45	58.4	74.5	61.9	49.3
29/09/2023 22:00	58.1	78.9	60.8	48.8
29/09/2023 22:15	57.3	74.2	60.2	49.6
29/09/2023 22:30	57.0	73.4	60.2	49.2
29/09/2023 22:45	59.1	74.6	62.4	48.2
29/09/2023 23:00	57.4	71.7	61.2	45.8
29/09/2023 23:15	57.4	78.9	60.8	46.7
29/09/2023 23:30	58.2	77.2	62.0	45.6
29/09/2023 23:45	55.4	71.7	58.6	45.4
30/09/2023 00:00	53.5	73.6	55.3	45.3

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 00:15	53.0	72.5	55.9	45.4
30/09/2023 00:30	54.7	71.7	57.3	46.0
30/09/2023 00:45	54.3	71.3	57.2	45.9
30/09/2023 01:00	54.9	71.6	57.8	45.4
30/09/2023 01:15	53.4	71.2	56.1	45.4
30/09/2023 01:30	55.6	74.3	57.9	45.4
30/09/2023 01:45	54.9	75.5	56.8	45.3
30/09/2023 02:00	53.3	66.8	56.9	44.8
30/09/2023 02:15	53.1	70.3	54.3	45.4
30/09/2023 02:30	54.3	73.2	56.9	45.4
30/09/2023 02:45	54.6	73.4	56.9	45.7
30/09/2023 03:00	54.3	67.3	58.8	46.5
30/09/2023 03:15	54.8	72.9	56.5	45.8
30/09/2023 03:30	55.0	75.5	55.1	45.0
30/09/2023 03:45	52.1	65.4	55.0	45.8
30/09/2023 04:00	54.1	75.7	54.0	45.1
30/09/2023 04:15	54.0	74.8	54.6	45.6
30/09/2023 04:30	53.5	69.2	55.0	46.4
30/09/2023 04:45	52.5	71.2	54.4	46.2
30/09/2023 05:00	54.7	71.6	56.9	46.5
30/09/2023 05:15	55.3	72.0	59.2	46.2
30/09/2023 05:30	55.0	72.1	58.2	45.8
30/09/2023 05:45	57.7	72.4	61.8	47.8
30/09/2023 06:00	58.3	73.4	62.5	46.2
30/09/2023 06:15	57.6	69.2	61.5	47.5
30/09/2023 06:30	57.3	71.8	60.3	49.2
30/09/2023 06:45	58.3	75.5	61.6	50.5
30/09/2023 07:00	58.1	73.9	61.4	50.5
30/09/2023 07:15	58.4	74.3	62.3	50.4
30/09/2023 07:30	60.0	74.4	63.4	50.8
30/09/2023 07:45	62.0	86.4	64.1	51.0

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 08:00	60.1	72.5	64.2	50.8
30/09/2023 08:15	60.7	74.7	64.2	52.4
30/09/2023 08:30	60.8	72.4	64.8	52.1
30/09/2023 08:45	61.7	73.7	65.5	53.0
30/09/2023 09:00	61.3	73.3	65.2	52.0
30/09/2023 09:15	63.0	81.8	65.6	53.1
30/09/2023 09:30	62.6	76.5	65.9	54.6
30/09/2023 09:45	62.6	74.5	65.5	55.6
30/09/2023 10:00	62.5	73.4	66.2	54.5
30/09/2023 10:15	62.1	73.3	65.3	54.4
30/09/2023 10:30	62.3	80.5	65.7	54.0
30/09/2023 10:45	62.8	80.0	65.8	55.6
30/09/2023 11:00	61.7	74.5	64.8	54.6
30/09/2023 11:15	62.5	74.4	65.9	55.4
30/09/2023 11:30	61.5	74.4	64.8	53.6
30/09/2023 11:45	62.0	82.3	64.7	55.4
30/09/2023 12:00	62.6	73.7	65.9	56.2
30/09/2023 12:15	62.5	73.4	66.2	54.5
30/09/2023 12:30	63.7	75.0	67.0	55.7
30/09/2023 12:45	63.1	74.2	66.2	55.7
30/09/2023 13:00	64.1	87.5	66.9	55.6
30/09/2023 13:15	61.8	74.0	65.0	53.9
30/09/2023 13:30	63.2	74.7	66.6	54.2
30/09/2023 13:45	63.4	72.6	66.9	56.4
30/09/2023 14:00	63.5	78.1	66.4	56.5
30/09/2023 14:15	63.7	76.0	66.5	56.9
30/09/2023 14:30	62.6	74.8	65.8	55.2
30/09/2023 14:45	64.2	73.5	67.5	58.0
30/09/2023 15:00	64.6	79.3	67.9	55.4
30/09/2023 15:15	63.2	75.7	66.5	54.7
30/09/2023 15:30	62.7	80.0	65.8	53.7

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 15:45	62.1	75.1	65.4	53.5
30/09/2023 16:00	62.8	73.6	66.4	52.3
30/09/2023 16:15	64.3	86.4	65.3	54.5
30/09/2023 16:30	61.6	75.1	64.6	53.2
30/09/2023 16:45	63.2	77.7	66.4	54.2
30/09/2023 17:00	64.2	78.6	67.5	56.4
30/09/2023 17:15	64.9	79.2	67.8	57.6
30/09/2023 17:30	64.7	79.8	67.7	53.8
30/09/2023 17:45	63.6	75.5	67.1	55.0
30/09/2023 18:00	63.3	77.5	66.4	55.5
30/09/2023 18:15	63.3	76.5	66.5	56.0
30/09/2023 18:30	65.8	88.2	68.1	53.8
30/09/2023 18:45	63.9	78.9	66.9	54.8
30/09/2023 19:00	61.8	75.5	65.5	52.1
30/09/2023 19:15	61.5	74.7	64.6	52.4
30/09/2023 19:30	61.6	75.5	65.2	52.5
30/09/2023 19:45	60.6	75.7	63.9	52.4
30/09/2023 20:00	61.6	76.7	65.5	51.9
30/09/2023 20:15	61.4	76.9	64.7	51.5
30/09/2023 20:30	58.8	75.4	62.8	50.3
30/09/2023 20:45	60.3	76.6	63.8	49.7
30/09/2023 21:00	59.3	73.9	62.8	49.6
30/09/2023 21:15	60.0	78.1	63.3	50.7
30/09/2023 21:30	59.5	76.6	62.9	50.3
30/09/2023 21:45	58.1	74.2	61.9	49.7
30/09/2023 22:00	59.4	77.6	63.2	49.5
30/09/2023 22:15	57.7	70.9	61.5	50.2
30/09/2023 22:30	58.3	71.4	62.3	49.9
30/09/2023 22:45	58.6	75.1	62.1	49.6
30/09/2023 23:00	56.3	71.4	60.3	49.6
30/09/2023 23:15	57.2	71.8	61.3	48.8

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
30/09/2023 23:30	57.2	76.7	59.9	48.5
30/09/2023 23:45	56.5	71.9	59.9	47.9
01/10/2023 00:00	56.8	72.3	59.6	48.0
01/10/2023 00:15	56.2	68.9	60.0	48.9
01/10/2023 00:30	53.9	71.6	56.3	47.8
01/10/2023 00:45	57.1	72.6	60.0	48.5
01/10/2023 01:00	55.7	71.9	59.0	48.9
01/10/2023 01:15	55.6	73.6	56.9	48.4
01/10/2023 01:30	55.4	70.6	58.6	47.3
01/10/2023 01:45	54.9	73.0	57.2	47.6
01/10/2023 02:00	54.3	72.1	54.9	46.9
01/10/2023 02:15	54.7	71.3	56.4	47.2
01/10/2023 02:30	55.6	76.9	58.9	47.8
01/10/2023 02:45	55.3	72.2	57.8	47.6
01/10/2023 03:00	54.8	73.3	56.6	47.3
01/10/2023 03:15	54.1	74.4	54.4	46.9
01/10/2023 03:30	59.4	76.3	62.2	49.3
01/10/2023 03:45	58.5	78.8	60.6	52.8
01/10/2023 04:00	59.5	76.2	61.7	52.6
01/10/2023 04:15	55.2	72.3	56.5	49.3
01/10/2023 04:30	56.6	74.8	58.4	49.2
01/10/2023 04:45	56.0	74.6	58.9	48.4
01/10/2023 05:00	55.5	74.7	54.9	47.6
01/10/2023 05:15	54.0	74.2	56.2	47.1
01/10/2023 05:30	56.9	72.9	60.4	47.8
01/10/2023 05:45	56.9	70.7	60.5	47.9
01/10/2023 06:00	59.2	78.4	61.8	48.6
01/10/2023 06:15	59.1	73.8	63.4	48.6
01/10/2023 06:30	59.7	74.3	63.1	48.6
01/10/2023 06:45	58.5	74.5	62.3	48.6
01/10/2023 07:00	57.9	75.2	61.1	48.9

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 07:15	58.6	73.4	61.6	48.7
01/10/2023 07:30	59.8	75.8	63.0	48.9
01/10/2023 07:45	61.4	77.2	65.2	50.3
01/10/2023 08:00	58.9	75.7	62.3	49.8
01/10/2023 08:15	60.4	78.6	62.4	49.1
01/10/2023 08:30	62.9	79.4	66.1	51.2
01/10/2023 08:45	61.7	76.7	65.6	50.7
01/10/2023 09:00	61.8	76.4	65.2	53.2
01/10/2023 09:15	61.8	79.5	64.5	51.0
01/10/2023 09:30	64.1	79.4	67.7	54.8
01/10/2023 09:45	62.7	77.6	65.7	53.7
01/10/2023 10:00	62.0	77.2	65.4	53.1
01/10/2023 10:15	63.0	75.6	66.4	54.2
01/10/2023 10:30	63.9	78.7	67.9	54.8
01/10/2023 10:45	63.5	80.2	66.4	55.7
01/10/2023 11:00	63.8	78.3	67.2	55.4
01/10/2023 11:15	64.2	78.7	67.8	55.1
01/10/2023 11:30	64.2	76.0	67.7	55.7
01/10/2023 11:45	65.8	78.1	68.9	58.6
01/10/2023 12:00	64.6	77.5	67.8	56.4
01/10/2023 12:15	64.9	77.4	68.4	56.2
01/10/2023 12:30	65.1	76.7	68.2	56.2
01/10/2023 12:45	64.6	76.7	68.2	55.4
01/10/2023 13:00	64.7	77.0	68.2	56.8
01/10/2023 13:15	64.6	82.1	67.9	56.7
01/10/2023 13:30	64.1	77.2	67.5	57.3
01/10/2023 13:45	63.4	74.7	67.1	56.2
01/10/2023 14:00	64.6	76.9	67.9	56.5
01/10/2023 14:15	64.9	75.6	68.2	57.5
01/10/2023 14:30	63.8	75.3	67.2	56.7
01/10/2023 14:45	62.6	75.2	66.3	52.8

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 15:00	63.0	76.9	67.0	53.8
01/10/2023 15:15	64.3	80.9	67.5	54.8
01/10/2023 15:30	62.9	73.4	66.4	54.7
01/10/2023 15:45	63.9	77.4	67.2	54.7
01/10/2023 16:00	62.3	73.7	66.1	51.9
01/10/2023 16:15	61.5	73.2	65.5	50.4
01/10/2023 16:30	62.5	73.8	66.2	51.8
01/10/2023 16:45	61.9	74.8	65.5	50.2
01/10/2023 17:00	61.3	74.1	65.5	49.5
01/10/2023 17:15	60.8	73.9	64.5	49.7
01/10/2023 17:30	61.7	73.4	65.5	52.7
01/10/2023 17:45	63.3	86.4	65.7	52.3
01/10/2023 18:00	66.5	94.9	66.2	52.0
01/10/2023 18:15	59.3	70.8	63.1	49.0
01/10/2023 18:30	60.2	77.2	64.0	49.1
01/10/2023 18:45	61.8	75.1	65.8	51.5
01/10/2023 19:00	60.4	73.9	63.9	50.7
01/10/2023 19:15	59.9	73.9	63.7	49.5
01/10/2023 19:30	60.4	77.1	64.0	50.1
01/10/2023 19:45	60.8	76.4	64.8	49.3
01/10/2023 20:00	59.9	74.3	64.0	49.2
01/10/2023 20:15	59.2	75.7	62.9	47.0
01/10/2023 20:30	58.1	72.7	62.0	49.2
01/10/2023 20:45	56.4	71.2	60.1	45.9
01/10/2023 21:00	59.0	74.0	63.4	45.7
01/10/2023 21:15	57.6	72.1	61.9	44.8
01/10/2023 21:30	59.6	79.8	63.2	46.7
01/10/2023 21:45	57.3	74.0	61.2	43.7
01/10/2023 22:00	55.3	69.9	58.5	43.3
01/10/2023 22:15	54.4	69.6	57.9	44.2
01/10/2023 22:30	59.5	85.4	58.9	43.1

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
01/10/2023 22:45	62.1	89.8	60.9	43.2
01/10/2023 23:00	55.7	73.4	60.1	44.2
01/10/2023 23:15	52.6	65.8	57.0	42.8
01/10/2023 23:30	55.8	70.7	59.0	42.1
01/10/2023 23:45	54.9	70.2	57.7	42.5
02/10/2023 00:00	50.6	71.6	52.1	42.7
02/10/2023 00:15	50.3	72.4	51.3	43.3
02/10/2023 00:30	51.5	68.6	54.4	43.6
02/10/2023 00:45	53.1	71.4	54.8	43.5
02/10/2023 01:00	55.5	72.1	58.7	43.2
02/10/2023 01:15	44.4	52.2	45.1	43.4
02/10/2023 01:30	51.2	71.1	52.0	42.9
02/10/2023 01:45	53.3	71.6	53.0	43.3
02/10/2023 02:00	45.8	61.9	45.4	42.5
02/10/2023 02:15	53.9	72.7	54.8	42.2
02/10/2023 02:30	52.3	72.0	53.9	43.5
02/10/2023 02:45	49.5	64.1	52.8	43.1
02/10/2023 03:00	57.9	74.7	59.7	43.8
02/10/2023 03:15	52.5	72.6	52.0	43.6
02/10/2023 03:30	54.4	74.7	54.5	43.9
02/10/2023 03:45	49.7	67.1	52.2	44.2
02/10/2023 04:00	53.2	72.2	54.6	43.8
02/10/2023 04:15	55.1	77.6	55.6	43.7
02/10/2023 04:30	50.4	63.3	54.8	43.2
02/10/2023 04:45	55.8	75.0	59.5	43.9
02/10/2023 05:00	59.0	74.0	62.2	44.8
02/10/2023 05:15	59.5	76.0	62.5	48.5
02/10/2023 05:30	59.2	77.2	62.8	47.6
02/10/2023 05:45	61.6	78.2	65.0	52.0
02/10/2023 06:00	61.0	73.8	64.9	49.5
02/10/2023 06:15	63.3	74.7	66.3	55.8

Time	LAeq (dB)	LAFMax (dB)	LA10 (dB)	LA90 (dB)
02/10/2023 06:30	63.4	78.4	66.6	55.9
02/10/2023 06:45	65.0	77.6	68.1	56.9
02/10/2023 07:00	63.8	75.8	67.4	55.1
02/10/2023 07:15	65.1	77.6	68.3	57.9
02/10/2023 07:30	65.0	74.7	68.5	57.9
02/10/2023 07:45	66.7	77.6	69.8	59.5
02/10/2023 08:00	65.4	76.2	68.5	58.8
02/10/2023 08:15	66.9	81.7	70.0	59.3
02/10/2023 08:30	65.7	77.4	68.9	59.0
02/10/2023 08:45	66.2	77.9	69.4	58.3
02/10/2023 09:00	64.3	75.0	67.8	57.5
02/10/2023 09:15	63.5	78.4	66.2	56.5
02/10/2023 09:30	64.4	79.8	68.0	56.2
02/10/2023 09:45	64.3	76.2	67.4	57.1
02/10/2023 10:00	63.9	76.0	67.4	54.6
02/10/2023 10:15	63.7	78.4	66.2	55.5
02/10/2023 10:30	63.9	76.9	67.1	55.5
02/10/2023 10:45	63.3	75.1	66.4	56.0
02/10/2023 11:00	62.3	76.1	65.3	54.8
02/10/2023 11:15	63.8	74.6	67.5	54.8
02/10/2023 11:30	64.5	78.9	68.2	54.7
02/10/2023 11:45	64.8	82.4	68.0	55.5
02/10/2023 12:00	64.2	76.6	67.5	56.8
02/10/2023 12:15	64.3	77.2	68.0	55.2
02/10/2023 12:30	63.8	76.4	67.1	54.6
02/10/2023 12:45	64.2	78.2	67.6	54.2
02/10/2023 13:00	64.4	77.1	68.1	54.8
02/10/2023 13:15	63.6	76.4	67.0	55.5

Table 05-07
Weather

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
27/09/2023	12:30	15.3	2.7		ENE	0
27/09/2023	12:45	15.3	3.1		ENE	0
27/09/2023	13:00	15.4	2.2		ENE	0
27/09/2023	13:15	15.6	2.7		NE	0
27/09/2023	13:30	15.8	2.7		ENE	0
27/09/2023	13:45	16.1	1.3		ENE	0
27/09/2023	14:00	16.2	2.2		ENE	0
27/09/2023	14:15	16.3	3.1		ENE	0
27/09/2023	14:30	16.3	2.7		ENE	0
27/09/2023	14:45	16.4	2.7		ENE	0
27/09/2023	15:00	16.5	2.2		ENE	0
27/09/2023	15:15	16.7	2.2		ENE	0
27/09/2023	15:30	16.9	2.2		ENE	0
27/09/2023	15:45	17.3	2.7		ENE	0
27/09/2023	16:00	17.6	3.6		ENE	0
27/09/2023	16:15	18.2	2.7		ENE	0
27/09/2023	16:30	18.6	4.9		ENE	0
27/09/2023	16:45	18.8	5.4		NE	0
27/09/2023	17:00	18.9	3.6		ENE	0
27/09/2023	17:15	18.8	4.5		NE	0
27/09/2023	17:30	18.8	5.4		NE	0
27/09/2023	17:45	18.6	5.4		NE	0
27/09/2023	18:00	18.3	4.5		NE	0
27/09/2023	18:15	18.3	4		NE	0
27/09/2023	18:30	18.4	4.5		NE	0
27/09/2023	18:45	18.5	4.9		NE	0
27/09/2023	19:00	16.6	5.8		NE	0
27/09/2023	19:15	16.4	3.1		NE	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
27/09/2023	19:30	16.2	3.6		ENE	0
27/09/2023	19:45	16.3	2.2		NE	0
27/09/2023	20:00	16.5	3.6		NE	0
27/09/2023	20:15	16.6	4		ENE	0
27/09/2023	20:30	16.6	4.5		NE	0
27/09/2023	20:45	16.6	4		NE	0
27/09/2023	21:00	16.4	3.6		NE	0
27/09/2023	21:15	16.4	4.5		NE	0
27/09/2023	21:30	16.5	6.7		NE	0
27/09/2023	21:45	16.5	4.5		NE	0
27/09/2023	22:00	16.2	4.9		NE	0
27/09/2023	22:15	16.1	3.1		NE	0
27/09/2023	22:30	16.1	5.4		ENE	0
27/09/2023	22:45	16	4.9		ENE	0
27/09/2023	23:00	15.8	4		NE	0
27/09/2023	23:15	15.6	3.6		NE	0
27/09/2023	23:30	15.3	2.7		ENE	0
27/09/2023	23:45	15.3	2.7		NE	0
28/09/2023	00:00	15.4	1.3		ENE	0
28/09/2023	00:15	15.6	1.8		ENE	0
28/09/2023	00:30	15.7	1.8		NE	0
28/09/2023	00:45	15.8	1.3		NE	0
28/09/2023	01:00	16.1	1.3		NE	0
28/09/2023	01:15	16.2	2.7		NE	0
28/09/2023	01:30	16.4	2.7		WNW	0
28/09/2023	01:45	16.4	1.8		NW	0
28/09/2023	02:00	16.4	4.5		WNW	0
28/09/2023	02:15	16.6	2.2		WNW	0
28/09/2023	02:30	16.6	2.2		WNW	0
28/09/2023	02:45	16.4	3.6		WNW	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
28/09/2023	03:00	16.3	3.6		WNW	0
28/09/2023	03:15	16.1	4		WNW	0
28/09/2023	03:30	15.9	3.6		WNW	0
28/09/2023	03:45	15.8	3.6		WNW	0
28/09/2023	04:00	15.8	4		WNW	0
28/09/2023	04:15	15.9	3.1		WNW	0
28/09/2023	04:30	15.9	3.6		WNW	0
28/09/2023	04:45	15.7	3.1		WNW	0
28/09/2023	05:00	15.5	1.8		WNW	0
28/09/2023	05:15	15.4	2.7		WNW	0
28/09/2023	05:30	15.3	3.1		WNW	0
28/09/2023	05:45	15.4	3.1		WNW	0
28/09/2023	06:00	15.4	3.1		WNW	0
28/09/2023	06:15	15	2.7		WNW	0
28/09/2023	06:30	15.1	2.2		WNW	0
28/09/2023	06:45	15.1	1.8		WNW	0
28/09/2023	07:00	15.1	2.2		WNW	0
28/09/2023	07:15	15.1	1.3		WNW	0
28/09/2023	07:30	15	1.8		WNW	0
28/09/2023	07:45	14.9	1.3		WNW	0
28/09/2023	08:00	14.6	1.8		WNW	0
28/09/2023	08:15	14.5	2.2		WNW	0
28/09/2023	08:30	14.4	1.8		NE	0
28/09/2023	08:45	14.3	1.3		ENE	0
28/09/2023	09:00	14.4	0.9		ENE	0
28/09/2023	09:15	14.6	1.8		WNW	0
28/09/2023	09:30	14.7	3.6		NW	0
28/09/2023	09:45	14.6	2.2		WNW	0
28/09/2023	10:00	14.6	3.1		WNW	0
28/09/2023	10:15	14.5	1.3		NW	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
28/09/2023	10:30	14.5	1.8		NW	0
28/09/2023	10:45	14.4	1.8		NE	0
28/09/2023	11:00	14.6	1.8		WNW	0
28/09/2023	11:15	14.6	1.3		NE	0
28/09/2023	11:30	14.5	1.3		WNW	0
28/09/2023	11:45	14.6	1.3		NE	0
28/09/2023	12:00	14.5	1.3		NE	0
28/09/2023	12:15	14.6	2.2		ENE	0
28/09/2023	12:30	14.7	2.7		NE	0
28/09/2023	12:45	14.8	1.8		ENE	0
28/09/2023	13:00	15.2	1.3		NE	0
28/09/2023	13:15	15.4	1.3		NE	0
28/09/2023	13:30	15.6	1.8		ENE	0
28/09/2023	13:45	15.9	1.8		ENE	0
28/09/2023	14:00	16.1	1.8		NE	0
28/09/2023	14:15	15.9	2.7		NE	0
28/09/2023	14:30	15.9	1.3		NE	0
28/09/2023	14:45	15.9	1.3		ENE	0
28/09/2023	15:00	15.9	1.3		ENE	0
28/09/2023	15:15	15.9	1.3		ENE	0
28/09/2023	15:30	16.1	1.8		ENE	0
28/09/2023	15:45	16.1	2.7		NE	0
28/09/2023	16:00	15.8	0.9		ENE	0
28/09/2023	16:15	15.8	1.8		NE	0
28/09/2023	16:30	15.9	1.3		WNW	0
28/09/2023	16:45	15.8	1.8		ENE	0
28/09/2023	17:00	15.8	1.8		NE	0
28/09/2023	17:15	15.7	2.2		NE	0
28/09/2023	17:30	15.4	1.8		NE	0
28/09/2023	17:45	15.1	0.9		NE	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
28/09/2023	18:00	15.2	1.8		ENE	0
28/09/2023	18:15	15.1	0.9		NNE	0
28/09/2023	18:30	15.1	1.3		NE	0
28/09/2023	18:45	15.1	1.3		NE	0
28/09/2023	19:00	15.2	2.7		NE	0
28/09/2023	19:15	15.2	1.8		NE	0
28/09/2023	19:30	15.1	2.2		ENE	0
28/09/2023	19:45	15.1	2.7		ENE	0
28/09/2023	20:00	15.2	2.2		NE	0
28/09/2023	20:15	15.3	1.3		ENE	0
28/09/2023	20:30	15.4	2.2		NE	0
28/09/2023	20:45	15.4	4		ENE	0
28/09/2023	21:00	15.4	2.7		ENE	0
28/09/2023	21:15	15.3	1.8		NE	0
28/09/2023	21:30	15.2	1.8		ENE	0
28/09/2023	21:45	15.2	1.3		NE	0
28/09/2023	22:00	15.1	1.3		NE	0
28/09/2023	22:15	14.9	1.3		ENE	0
28/09/2023	22:30	14.8	0.9		ENE	0
28/09/2023	22:45	14.7	0.9		NE	0
28/09/2023	23:00	14.7	0.9		NNE	0
28/09/2023	23:15	14.6	2.2		NE	0
28/09/2023	23:30	14.6	0.9		NE	0
28/09/2023	23:45	14.6	0.9		ENE	0
29/09/2023	00:00	14.6	1.3		ENE	0
29/09/2023	00:15	14.6	1.8		ENE	0
29/09/2023	00:30	14.6	0.9		NE	0
29/09/2023	00:45	14.6	1.3		NE	0
29/09/2023	01:00	14.6	1.3		NE	0
29/09/2023	01:15	14.6	0.9		E	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
29/09/2023	01:30	14.7	0.9		WNW	0
29/09/2023	01:45	14.6	1.3		WNW	0
29/09/2023	02:00	14.3	2.2		WNW	0
29/09/2023	02:15	14.1	0.4		ENE	0
29/09/2023	02:30	14.1	0.4		N	0
29/09/2023	02:45	14.2	0.9		W	0
29/09/2023	03:00	14.2	1.3		WNW	0
29/09/2023	03:15	13.9	1.3		W	0
29/09/2023	03:30	13.6	0.9		W	0
29/09/2023	03:45	13.3	0.9		WNW	0
29/09/2023	04:00	13.4	0.4		WNW	0
29/09/2023	04:15	13.4	0.9		WNW	0
29/09/2023	04:30	13.4	1.3		WNW	0
29/09/2023	04:45	13.2	0.9		W	0
29/09/2023	05:00	12.9	1.3		W	0
29/09/2023	05:15	12.8	0.9		W	0
29/09/2023	05:30	12.7	1.3		W	0
29/09/2023	05:45	12.6	0.9		WNW	0
29/09/2023	06:00	12.3	0.4		W	0
29/09/2023	06:15	11.7	0.4		WNW	0
29/09/2023	06:30	11.4	0.4		NE	0
29/09/2023	06:45	11.2	0.4		SW	0
29/09/2023	07:00	11.2	0.9		ENE	0
29/09/2023	07:15	10.9	0.4		ENE	0
29/09/2023	07:30	11	0.4		ENE	0
29/09/2023	07:45	10.9	0.4		ENE	0
29/09/2023	08:00	11	0		---	0
29/09/2023	08:15	11.2	0.4		NE	0
29/09/2023	08:30	11.4	0.4		NW	0
29/09/2023	08:45	11.7	0.9		E	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
29/09/2023	09:00	12.1	0.4		NE	0
29/09/2023	09:15	12.3	0.4		NE	0
29/09/2023	09:30	13.3	1.8		WNW	0
29/09/2023	09:45	14.1	2.7		WNW	0
29/09/2023	10:00	14.6	2.7		W	0
29/09/2023	10:15	14.9	2.2		WNW	0
29/09/2023	10:30	15.2	3.1		W	0
29/09/2023	10:45	15.4	4.5		WNW	0
29/09/2023	11:00	15.8	4.5		WNW	0
29/09/2023	11:15	16.1	3.1		W	0
29/09/2023	11:30	16.3	3.6		WNW	0
29/09/2023	11:45	16.4	3.6		WNW	0
29/09/2023	12:00	16.5	3.1		W	0
29/09/2023	12:15	16.6	3.6		WNW	0
29/09/2023	12:30	16.8	3.6		W	0
29/09/2023	12:45	16.9	4		W	0
29/09/2023	13:00	16.8	3.6		WNW	0
29/09/2023	13:15	17.1	2.7		WNW	0
29/09/2023	13:30	17.3	2.7		W	0
29/09/2023	13:45	17.3	3.1		W	0
29/09/2023	14:00	17.4	2.7		W	0
29/09/2023	14:15	17.6	3.1		W	0
29/09/2023	14:30	17.7	2.7		W	0
29/09/2023	14:45	17.7	2.2		W	0
29/09/2023	15:00	17.7	2.7		W	0
29/09/2023	15:15	17.6	3.1		W	0
29/09/2023	15:30	17.5	2.7		W	0
29/09/2023	15:45	17.3	3.1		W	0
29/09/2023	16:00	17.3	3.1		WSW	0
29/09/2023	16:15	17.3	2.2		W	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
29/09/2023	16:30	16.8	1.8		W	0
29/09/2023	16:45	16.4	1.8		W	0
29/09/2023	17:00	16.5	2.2		W	0
29/09/2023	17:15	16.3	1.3		W	0
29/09/2023	17:30	16.3	1.3		WNW	0
29/09/2023	17:45	15.8	1.3		WNW	0
29/09/2023	18:00	15.9	0.9		W	0
29/09/2023	18:15	15.8	1.3		WNW	0
29/09/2023	18:30	15.5	1.3		WNW	0
29/09/2023	18:45	15.1	0.4		WNW	0
29/09/2023	19:00	14.6	0.9		WNW	0
29/09/2023	19:15	14.2	0.4		WNW	0
29/09/2023	19:30	13.8	0.4		WNW	0
29/09/2023	19:45	13.6	0.4		WNW	0
29/09/2023	20:00	13.4	0.9		WNW	0
29/09/2023	20:15	13	0.4		WNW	0
29/09/2023	20:30	12.8	0.4		ENE	0
29/09/2023	20:45	12.7	0.4		ENE	0
29/09/2023	21:00	12.5	0.4		ESE	0
29/09/2023	21:15	12.5	0.4		ENE	0
29/09/2023	21:30	12.6	0.4		ENE	0
29/09/2023	21:45	12.6	0.4		NNE	0
29/09/2023	22:00	12.6	0.4		WSW	0
29/09/2023	22:15	12.5	0.4		ENE	0
29/09/2023	22:30	12.4	0.4		ESE	0
29/09/2023	22:45	12.2	0.4		SE	0
29/09/2023	23:00	12.3	0.4		E	0
29/09/2023	23:15	12.2	0.4		E	0
29/09/2023	23:30	12.2	0.4		E	0
29/09/2023	23:45	12.2	0.4		E	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
30/09/2023	00:00	12.1	0.4	E		0
30/09/2023	00:15	12.1	0.4	ENE		0
30/09/2023	00:30	11.7	0	---		0
30/09/2023	00:45	11.6	0	---		0
30/09/2023	01:00	11.4	0.4	NE		0
30/09/2023	01:15	11.6	0.4	NE		0
30/09/2023	01:30	11.7	0.4	E		0
30/09/2023	01:45	11.8	0.9	NE		0
30/09/2023	02:00	11.7	0.4	NE		0
30/09/2023	02:15	11.7	0.4	E		0
30/09/2023	02:30	11.5	0	---		0
30/09/2023	02:45	11.5	0.4	ENE		0
30/09/2023	03:00	11.6	0.4	ENE		0
30/09/2023	03:15	11.4	0	---		0
30/09/2023	03:30	11	0	---		0
30/09/2023	03:45	10.8	0.4	ENE		0
30/09/2023	04:00	11	0.4	ENE		0
30/09/2023	04:15	11	0.4	NNE		0
30/09/2023	04:30	10.9	0.4	NNE		0
30/09/2023	04:45	10.9	0	---		0
30/09/2023	05:00	11.1	0.4	ENE		0
30/09/2023	05:15	11.2	0.4	ENE		0
30/09/2023	05:30	11.4	0.4	ENE		0
30/09/2023	05:45	11.4	1.3	ENE		0
30/09/2023	06:00	11.4	0.4	ENE		0
30/09/2023	06:15	11.3	0.4	E		0
30/09/2023	06:30	11.2	0.4	SE		0
30/09/2023	06:45	11.1	0	---		0
30/09/2023	07:00	10.8	0	---		0
30/09/2023	07:15	10.8	0	---		0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
30/09/2023	07:30	11.1	0	---		0
30/09/2023	07:45	11.4	0.4		ENE	0
30/09/2023	08:00	11.6	0.4		NE	0
30/09/2023	08:15	11.8	0.4		NE	0
30/09/2023	08:30	11.8	0.9		ENE	0
30/09/2023	08:45	11.8	0.4		ENE	0
30/09/2023	09:00	12	0.4		ENE	0
30/09/2023	09:15	12.2	0.9		ENE	0
30/09/2023	09:30	12.6	0.4		NE	0
30/09/2023	09:45	13.1	0.4		ENE	0
30/09/2023	10:00	13	0.4		ENE	0
30/09/2023	10:15	13.1	1.3		ENE	0
30/09/2023	10:30	13.7	1.8		NNE	0
30/09/2023	10:45	14	0.9		NE	0
30/09/2023	11:00	14.2	1.8		NE	0
30/09/2023	11:15	14.6	1.3		NE	0
30/09/2023	11:30	14.7	2.2		ENE	0
30/09/2023	11:45	14.9	2.2		NNW	0
30/09/2023	12:00	15.2	1.3		NE	0
30/09/2023	12:15	15.4	1.3		NE	0
30/09/2023	12:30	15.3	1.8		NE	0
30/09/2023	12:45	15.3	0.9		NE	0
30/09/2023	13:00	15.1	2.2		ENE	0
30/09/2023	13:15	14.8	0.9		ENE	0
30/09/2023	13:30	14.8	0.9		ENE	0
30/09/2023	13:45	14.6	1.3		ENE	0
30/09/2023	14:00	14.6	2.2		ENE	0
30/09/2023	14:15	14.4	1.8		NE	0
30/09/2023	14:30	13.8	1.8		NE	0
30/09/2023	14:45	13.5	1.3		NE	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
30/09/2023	15:00	12.9	5.4		ENE	0
30/09/2023	15:15	12.5	1.8		ENE	0
30/09/2023	15:30	12	0.9		E	0
30/09/2023	15:45	11.7	0.4		ENE	0
30/09/2023	16:00	11.5	1.3		ENE	0
30/09/2023	16:15	11.6	0.9		ENE	0
30/09/2023	16:30	11.6	1.8		ENE	0
30/09/2023	16:45	11.5	2.7		ENE	0
30/09/2023	17:00	11.4	1.8		ENE	0
30/09/2023	17:15	11.5	1.8		ENE	0
30/09/2023	17:30	11.6	1.8		ENE	0
30/09/2023	17:45	11.8	1.8		ENE	0
30/09/2023	18:00	12.1	2.2		ENE	0
30/09/2023	18:15	12.3	1.8		ENE	0
30/09/2023	18:30	12.6	1.8		ENE	0
30/09/2023	18:45	13.1	1.8		ENE	0
30/09/2023	19:00	13.4	1.8		NE	0
30/09/2023	19:15	13.7	2.7		NE	0
30/09/2023	19:30	13.8	2.2		NE	0
30/09/2023	19:45	13.8	2.7		ENE	0
30/09/2023	20:00	13.8	2.7		ENE	0
30/09/2023	20:15	13.9	2.7		ENE	0
30/09/2023	20:30	14.1	2.2		ENE	0
30/09/2023	20:45	14.2	2.2		ENE	0
30/09/2023	21:00	14.4	1.8		NE	0
30/09/2023	21:15	14.6	1.3		ENE	0
30/09/2023	21:30	14.7	1.8		ENE	0
30/09/2023	21:45	14.7	2.2		ENE	0
30/09/2023	22:00	14.8	1.8		NE	0
30/09/2023	22:15	14.9	2.7		ENE	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
30/09/2023	22:30	15.2	2.2		NE	0
30/09/2023	22:45	15.3	1.8		NE	0
30/09/2023	23:00	15.4	1.8		ENE	0
30/09/2023	23:15	15.6	3.1		ENE	0
30/09/2023	23:30	15.7	2.7		NE	0
30/09/2023	23:45	15.7	2.2		NE	0
01/10/2023	00:00	15.8	3.1		NE	0
01/10/2023	00:15	15.9	0.9		NE	0
01/10/2023	00:30	15.9	1.8		NE	0
01/10/2023	00:45	15.9	1.3		NE	0
01/10/2023	01:00	16	1.3		ENE	0
01/10/2023	01:15	16.1	1.8		NE	0
01/10/2023	01:30	16.3	1.3		ENE	0
01/10/2023	01:45	16.4	1.3		ENE	0
01/10/2023	02:00	16.7	1.3		ENE	0
01/10/2023	02:15	16.7	0.9		NW	0
01/10/2023	02:30	16.8	0.9		ENE	0
01/10/2023	02:45	16.8	0.9		NNE	0
01/10/2023	03:00	16.9	2.2		ENE	0
01/10/2023	03:15	17.1	1.3		N	0
01/10/2023	03:30	17.1	0.9		NNE	0
01/10/2023	03:45	17.1	0.9		NE	0
01/10/2023	04:00	16.9	0.9		ENE	0
01/10/2023	04:15	17	1.3		NE	0
01/10/2023	04:30	17	0.9		ENE	0
01/10/2023	04:45	17.1	1.3		NE	0
01/10/2023	05:00	17	0.9		NE	0
01/10/2023	05:15	17.1	0.9		NE	0
01/10/2023	05:30	17.1	0.4		E	0
01/10/2023	05:45	17.1	0.4		W	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
01/10/2023	06:00	17.1	0.4		NE	0
01/10/2023	06:15	17.1	0.9		ENE	0
01/10/2023	06:30	17.1	0.4		NE	0
01/10/2023	06:45	17.1	0.9		ENE	0
01/10/2023	07:00	17	0.9		ENE	0
01/10/2023	07:15	17	0.9		NE	0
01/10/2023	07:30	17	0.4		N	0
01/10/2023	07:45	17.1	1.3		NE	0
01/10/2023	08:00	17.1	0.9		NNE	0
01/10/2023	08:15	17.1	0.9		ENE	0
01/10/2023	08:30	17.1	0.9		WNW	0
01/10/2023	08:45	17.1	0.4		NE	0
01/10/2023	09:00	17.2	0.9		NE	0
01/10/2023	09:15	17.3	0.9		NNE	0
01/10/2023	09:30	17.3	0.9		ENE	0
01/10/2023	09:45	17.3	0.9		WNW	0
01/10/2023	10:00	17.4	0.4		W	0
01/10/2023	10:15	17.4	0.4		WNW	0
01/10/2023	10:30	17.6	0.4		WNW	0
01/10/2023	10:45	17.6	0.4		NW	0
01/10/2023	11:00	17.6	0.9		ENE	0
01/10/2023	11:15	17.7	0.9		NE	0
01/10/2023	11:30	17.8	1.8		NE	0
01/10/2023	11:45	17.8	0.4		NE	0
01/10/2023	12:00	17.9	1.3		ENE	0
01/10/2023	12:15	18.1	1.3		NE	0
01/10/2023	12:30	18.2	0.9		NE	0
01/10/2023	12:45	18.1	0.9		NE	0
01/10/2023	13:00	18.2	0.9		WNW	0
01/10/2023	13:15	18.2	0.9		ENE	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
01/10/2023	13:30	18.4	0.9		NNE	0
01/10/2023	13:45	18.6	0.4		NE	0
01/10/2023	14:00	18.6	0.9		ENE	0
01/10/2023	14:15	18.7	0.9		NE	0
01/10/2023	14:30	18.8	0.9		ENE	0
01/10/2023	14:45	19	0.9		NW	0
01/10/2023	15:00	19	1.3		WNW	0
01/10/2023	15:15	19	0.9		WNW	0
01/10/2023	15:30	19.2	0.4		W	0
01/10/2023	15:45	18.6	0.4		W	0
01/10/2023	16:00	18.5	0.4		W	0
01/10/2023	16:15	18.4	0.4		W	0
01/10/2023	16:30	18.5	0.9		W	0
01/10/2023	16:45	18.9	1.3		W	0
01/10/2023	17:00	19.1	0.9		W	0
01/10/2023	17:15	18.8	1.3		W	0
01/10/2023	17:30	18.6	0.9		W	0
01/10/2023	17:45	18.3	0.9		W	0
01/10/2023	18:00	18	0.9		W	0
01/10/2023	18:15	17.9	0.4		WSW	0
01/10/2023	18:30	17.7	0.4		W	0
01/10/2023	18:45	17.3	0.4		NW	0
01/10/2023	19:00	16.9	0.4		W	0
01/10/2023	19:15	16.6	0.4		WNW	0
01/10/2023	19:30	16.3	0.4		W	0
01/10/2023	19:45	16.2	0.4		W	0
01/10/2023	20:00	16.1	0.9		W	0
01/10/2023	20:15	15.9	0.9		W	0
01/10/2023	20:30	15.8	0.9		WNW	0
01/10/2023	20:45	15.6	0.4		W	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
01/10/2023	21:00	15.2	0.4		SE	0
01/10/2023	21:15	14.9	0.4		E	0
01/10/2023	21:30	14.4	0.4		ENE	0
01/10/2023	21:45	14.2	0		---	0
01/10/2023	22:00	13.9	0		---	0
01/10/2023	22:15	13.7	0		---	0
01/10/2023	22:30	13.7	0		---	0
01/10/2023	22:45	13.4	0		---	0
01/10/2023	23:00	13.4	0.4		E	0
01/10/2023	23:15	13.8	0.4		E	0
01/10/2023	23:30	14.1	0.4		ENE	0
01/10/2023	23:45	13.8	0		---	0
02/10/2023	00:00	13.8	0.4		ENE	0
02/10/2023	00:15	13.7	0.4		ENE	0
02/10/2023	00:30	13.5	0.4		ENE	0
02/10/2023	00:45	13.6	0.4		ENE	0
02/10/2023	01:00	13.3	0.4		ENE	0
02/10/2023	01:15	13.3	0		---	0
02/10/2023	01:30	13.6	0.4		ENE	0
02/10/2023	01:45	13.5	0.4		ENE	0
02/10/2023	02:00	13.5	0.4		SE	0
02/10/2023	02:15	13	0.4		E	0
02/10/2023	02:30	12.5	0		---	0
02/10/2023	02:45	12.4	0		---	0
02/10/2023	03:00	12.7	0		---	0
02/10/2023	03:15	12.9	0.4		E	0
02/10/2023	03:30	13.1	0.4		NNE	0
02/10/2023	03:45	13.6	0.9		ENE	0
02/10/2023	04:00	13.8	1.8		ENE	0
02/10/2023	04:15	13.7	0.4		ENE	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
02/10/2023	04:30	13.5	0.4		ENE	0
02/10/2023	04:45	13.4	0.4		ENE	0
02/10/2023	05:00	13.2	0.4		WSW	0
02/10/2023	05:15	13.1	0.4		ENE	0
02/10/2023	05:30	12.9	0.4		ENE	0
02/10/2023	05:45	12.8	0.4		ENE	0
02/10/2023	06:00	12.7	0.4		ENE	0
02/10/2023	06:15	12.7	0		---	0
02/10/2023	06:30	12.8	0.4		ENE	0
02/10/2023	06:45	12.8	0.4		ENE	0
02/10/2023	07:00	12.7	0.4		NE	0
02/10/2023	07:15	12.6	0.4		NE	0
02/10/2023	07:30	12.5	0.4		NE	0
02/10/2023	07:45	12.6	0.4		E	0
02/10/2023	08:00	12.6	0		---	0
02/10/2023	08:15	12.6	0.4		ENE	0
02/10/2023	08:30	12.8	0.4		ENE	0
02/10/2023	08:45	13.2	0.4		E	0
02/10/2023	09:00	13.4	0.4		ENE	0
02/10/2023	09:15	13.5	0.4		NE	0
02/10/2023	09:30	13.7	1.3		NE	0
02/10/2023	09:45	13.8	0.4		NE	0
02/10/2023	10:00	14	0.4		NE	0
02/10/2023	10:15	14	0.4		ENE	0
02/10/2023	10:30	14.1	0.4		E	0
02/10/2023	10:45	14.3	0.4		ENE	0
02/10/2023	11:00	14.3	0.4		NE	0
02/10/2023	11:15	14.5	0.4		W	0
02/10/2023	11:30	14.7	0.4		W	0
02/10/2023	11:45	14.8	0.4		W	0

Date	Time	Temperature °C	Wind m/s	Speed	Wind Direction	Rain mm
02/10/2023	12:00	15.1	0.4		NW	0
02/10/2023	12:15	15.2	0.4		NW	0

APPENDIX 06

Model Results

Noise Model Development

Between 2015 and 2016 SLR completed a number of noise surveys at the EfW Facility so that a noise model of the operational EfW Facility could be developed. This noise model has previously been used to determine the specific sound level of the EfW Facility across the Site and at the nearest NSR locations.

Between November 2015 and April 2016 eight operational noise surveys were completed at the EfW Facility with noise levels measured at the following locations:

- Location 1: Base of stack.
- Location 2: AD Fan Line 1.
- Location 3: AD Fan Line 2.
- Location 4: AD Fan Line 3.
- Location 5: AD Fan Line 4.
- Location 6: Bag Filter Line 1.
- Location 7: Bag Filter Line 2.
- Location 8: Bag Filter Line 3.
- Location 9: Bag Filter Line 4.
- Location 10: Condensers.
- Location 11: Condensers.
- Location 12: Condensers.
- Location 13: Condensers.
- Location 14: Eastern Boundary of Site.
- Location 15: Car Park Boundary.
- Location 16: Reception Hall.
- Location 17: Western Boundary of Site.
- Location 18: Western Lime Dosing Station.
- Location 19: Chain Conveyors to Bag Filters Line 1 and 2.
- Location 20: Chain Conveyors to Bag Filters Line 3 and 4.
- Location 21: Eastern Lime Dosing Station.
- Location 22: Waste Bunker.
- Location 23: Ammonia Dosing Pumps.
- Location 24: Water Storage Pump.
- Location 25: Turbine Hall.
- Location 26: Southern Boundary of Site.
- Location 27: Mobile Generator.
- Location 28: Lorry Cleaning Line.
- Location 29: Mobile Generator.

The locations of the monitoring points are shown on the drawing in **Appendix 07**.

During each Survey, the operating capacity of the EfW Facility was as shown in Table 06-01.

Table 06-01
Operating Capacity of EfW Facility During Each Survey

Survey	Line 1	Line 2	Line 3	Line 4
1 7 th November 2015	Shutdown	Operational	Operational	Operational
2 30 th November 2015	Shutdown	Venting through boiler roof	Operational	Operational
3 15 th December 2015	Shutdown	Operational	Operational	Shutdown
4 ¹⁶ 25 th January 2016	Operational	Operational	Operational	Operational
5 ¹⁷ (5 th February 2016)	Operational	Operational	Operational	Operational
6 ¹⁸ (16 th February 2016)	Operational	Shutdown	Operational	Operational
7 ¹⁹ (15 th March 2016)	Operational	Operational	Shutdown	Operational
8 (13 th April 2016)	Shutdown	Operational	Operational	Shutdown
9 (2 nd October 2023)	Operational	Operational	Operational	Operational

From the measured data at the 29 survey locations the sound power level of each item of plant/area under consideration was determined. The calculated sound power levels for each survey are shown in **Appendix 08**.

Noise Model Output

The noise model output of each Survey can be seen in **Appendix 09**.

During each of the eight Surveys, as well as at each noise source, measurements were completed at boundary locations (measurement points 14, 15, 17, and 26). For information, the measured noise level at each boundary location can be seen in column 3 of Table 06-2. During Survey 9 only boundary location 15 was measured. At boundary locations 14, 17, and 26 noise sources other than the EfW Facility contributed to the measured noise level.

Therefore, to determine the specific sound level of the EfW Facility, within each Report the noise level from each item of plant measured was corrected to each boundary location (see column 4 of Table 06-02).

¹⁶ Noise sources 27, 28 and 29 were not active.

¹⁷ Noise sources 27, 28 and 29 were not active.

¹⁸ Noise source 28 was not active.

¹⁹ Noise sources 27 and 28 were not active.

Table 06-02
Measured Boundary Survey Results and Corrected Survey Results – L_{Aeq,T} dB(A)

1. Survey	2. Location	3. Measured at Location	4. Corrected Total Site Noise Level at Location
1	14	61.0	55.0
2		65.5	55.8
3		61.5	49.7
4		63.0	49.1
5		62.3	54.9
6		64.3	54.2
7		62.4	55.4
8		58.7	47.1
1	15	60.7	62.1
2		61.7	61.9
3		61.7	63.1
4		62.0	46.1
5		61.7	63.2
6		61.4	62.7
7		60.9	64.1
8		59.4	62.0
9		59.3	62.9
1	17	65.5	54.7
2		62.9	52.8
3		62.6	52.7
4		67.0	44.7
5		66.7	53.8
6		65.8	51.0
7		68.5	53.3
8		64.1	52.5
1	26	58.6	57.9
2		64.9	57.2
3		-	59.1
4		58.7	49.7
5		56.6	57.9
6		57.0	58.8
7		67.8	53.9
8		55.7	57.1

Table 06-3 compares the corrected total site L_{Aeq,T} noise level at each boundary location to the modelled L_{Aeq,T} noise level for each of the eight surveys completed.

Table 06-03
Corrected Survey Results and Modelled Results - $L_{Aeq,T}$ dB(A)

1. Survey	2. Location	3. Measured at Location	4. Corrected Total Site Noise Level at Location	5. Modelled Noise Level at Location	6. Difference Between Measured and Modelled	7. Average Difference Between Measured and Modelled
1	14	61.0	55.0	54.8	-0.2	2.5
2		65.5	55.8	55.8	0.0	
3		61.5	49.7	55.1	5.4	
4		63.0	49.1	58.3	9.2	
5		62.3	54.9	55.7	0.8	
6		64.3	54.2	54.7	0.5	
7		62.4	55.4	56.0	0.6	
8		58.7	47.1	50.8	3.7	
1	15	60.7	62.1	62.5	0.4	2.0
2		61.7	61.9	61.8	-0.1	
3		61.7	63.1	63.0	-0.1	
4		62.0	46.1	64.1	18.0	
5		61.7	63.2	63.2	0.0	
6		61.4	62.7	62.5	-0.2	
7		60.9	64.1	63.9	-0.2	
8		59.4	62.0	61.8	-0.2	
9		59.3	62.9	62.9	0.0	
1	17	65.5	54.7	59.4	4.7	8.9
2		62.9	52.8	57.8	5.0	
3		62.6	52.7	57.9	5.2	
4		67.0	44.7	64.8	20.1	
5		66.7	53.8	63.6	9.8	
6		65.8	51.0	62.7	11.7	
7		68.5	53.3	64.2	10.9	
8		64.1	52.5	56.4	3.9	
1	26	58.6	57.9	57.4	-0.5	0.2
2		64.9	57.2	56.6	-0.6	
3		-	59.1	58.5	-0.6	
4		58.7	49.7	57.9	8.2	
5		56.6	57.9	57.3	-0.6	
6		57.0	58.8	57.9	-0.9	
7		67.8	53.9	53.6	-0.3	
8		55.7	57.1	54.2	-2.9	

It can be seen from Table 06-3 that:

- There is good correlation (within 3dB(A)) between the calculated (from measured data) and the modelled noise levels at Locations 14, 15, and 26. At Location 17 the modelled noise levels are on average 8.9dB(A) higher than those that were calculated (from measured data).
- At each Location, the modelled noise levels were higher than those that were calculated (from measured data).
- It is therefore concluded that as the model may be over-predicting noise from the EfW Facility, it may be robustly used to model noise levels at the Noise Sensitive Receptors close to the EfW Facility.

The nine modelled $L_{Aeq,T}$ noise levels at each of the nearest Noise Sensitive Receptors (at a height of 1.5m) to the EfW Facility can be seen in Table 06-4. The logarithmic average $L_{Aeq,T}$ noise level is also presented. The five dominant noise sources at each NSR are also detailed.

Table 06-04
EfW Facility Noise Level at NSRs – $L_{Aeq,T}$ dB

Survey	Location	Modelled Noise Level (Free-Field)	Logarithmic Average Noise Level	Highest Noise Contributors
1	Clarks Terrace (1.5m)	48.6	48.7	Southern Condenser Façade, Northern Condenser Façade, Ammonia Dosing Pumps, Water Storage Pump, AD Fans
2		47.8		
3		49.2		
4		49.8		
5		48.9		
6		48.2		
7		49.6		
8		47.5		
9		48.1		
1	Russell Road / Proxy for Westfield Road (1.5m)	39.9	41.5	AD Fans, Chain Conveyors Lines 3 and 4, Western Dosing Station, Condensers Northern façade
2		40.2		
3		41.2		
4		44.2		
5		41.9		
6		40.5		
7		42.6		
8		37.8		
9		41.8		

APPENDIX 07

EfW Facility Noise Survey Locations



APPENDIX 08

Sound Power Level of each Item of Plant

Table 07-01
Survey One Calculated Sound Power Levels, dB

Location	L _{WA,T}	L _{WAF,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L2: AD fan Line 1	91.3	96.5	87.8	86.8	78.3	72.6	88.9	84.0	80.2	68.7	52.9
L3: AD fan Line 2	90.8	94.5	86.7	85.1	75.6	71.8	88.3	83.2	81.4	70.3	57.1
L4: AD fan Line 3	92.1	96.4	90.3	86.3	79.2	74.1	88.3	86.8	83.0	72.9	61.4
L5: AD fan Line 4	94.5	96.0	89.8	87.5	79.3	76.8	91.7	87.0	86.2	71.3	57.1
L6: Bag Filter Line 1	72.3	92.6	81.1	73.3	68.7	66.6	68.3	64.8	61.9	53.1	47.4
L7: Bag Filter Line 2	82.9	99.5	80.8	75.6	73.2	77.6	77.5	75.3	75.7	73.5	62.7
L8: Bag Filter Line 3	82.9	97.1	82.9	79.5	77.4	78.7	79.0	75.7	72.1	67.2	56.0
L9: Bag Filter Line 4	74.6	90.2	81.5	74.7	69.3	67.6	70.8	67.8	64.5	59.7	53.3
L10 to L13 Condensers logarithmic average (SURVEY 9)	99.0	100.3	95.0	95.6	92.5	91.1	95.5	92.9	89.1	81.7	71.6
L16: Reception Hall Entrance (SURVEY 9)	72.1	73.9	71.3	69.8	63.8	67.8	68.0	66.4	58.5	47.2	34.9
L18: West Lime Dosing Station Entrance	82.2	76.4	71.5	74.0	75.0	73.7	73.7	77.8	76.0	67.4	55.1
L19: Chain Conveyor Bagfilters Line 1&2	83.3	98.9	83.5	81.7	78.5	80.0	79.2	76.1	69.6	64.0	52.3
L20: Chain Conveyor Bagfilters Line 3&4	79.8	93.7	82.2	78.9	76.0	74.7	75.6	73.8	68.4	62.7	52.5
L21: East Lime Dosing Station Entrance	73.9	76.4	68.4	74.3	75.1	72.3	68.8	64.0	56.7	49.3	39.5
L22: Waste Bunker Entrance	-	-	-	-	-	-	-	-	-	-	-
L23: Ammonia Dosing Pumps	81.0	73.9	70.7	81.9	85.1	78.1	74.7	73.2	67.3	56.8	45.2
L24: Water Storage Pump	96.9	77.3	76.6	75.7	76.3	81.2	92.2	91.8	89.6	82.6	66.7
L25: Turbine Hall Entrance (SURVEY 9)	73.5	71.0	71.7	71.7	66.3	66.2	67.4	67.9	66.3	62.9	51.7

Table 07-02
Survey Two Calculated Sound Power Levels, dB

Location	L _{WA,T}	L _{WAF,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L2: AD fan Line 1	86.7	86.5	80.6	82.7	66.4	65.7	62.4	60.0	70.6	61.2	51.1
L3: AD fan Line 2	91.2	92.8	83.3	82.0	69.0	69.1	70.3	67.6	77.6	65.0	50.4
L4: AD fan Line 3	89.0	93.8	82.4	83.7	71.0	67.7	69.8	69.7	70.6	69.1	52.2
L5: AD fan Line 4	95.5	91.7	85.8	84.0	67.3	66.3	67.2	66.8	75.6	71.4	55.4
L6: Bag Filter Line 1	79.0	91.5	84.2	75.2	67.4	79.4	66.0	62.5	59.2	54.5	45.1
L7: Bag Filter Line 2	84.5	98.6	77.7	72.8	72.2	77.7	75.1	71.8	72.5	62.4	48.3
L8: Bag Filter Line 3	84.2	97.5	77.8	77.4	73.0	76.0	74.4	71.5	70.1	64.3	53.7
L9: Bag Filter Line 4	72.9	86.5	75.1	69.1	60.7	62.4	60.9	59.9	60.1	60.7	45.2
L10 to L13 Condensers logarithmic average	98.7	97.9	92.7	92.4	89.5	86.5	92.1	86.7	83.7	80.1	72.4
L16: Reception Hall Entrance	74.2	65.7	69.6	64.3	60.9	65.7	62.2	59.8	53.9	42.9	29.9
L18: West Lime Dosing Station Entrance	83.5	82.3	75.1	79.0	79.7	70.3	69.0	74.5	72.7	64.6	56.2
L19: Chain Conveyor Bagfilters Line 1&2	86.0	90.3	79.1	79.5	80.1	76.5	75.6	74.2	71.0	61.9	49.7
L20: Chain Conveyor Bagfilters Line 3&4	83.8	93.5	79.6	74.2	74.0	73.1	71.1	73.5	76.5	65.9	54.7
L21: East Lime Dosing Station Entrance	74.4	73.7	63.9	68.6	72.4	65.9	65.3	61.3	55.0	49.6	41.1
L22: Waste Bunker Entrance	76.8	77.3	74.6	76.3	66.8	66.1	68.1	66.3	60.4	53.2	47.2
L23: Ammonia Dosing Pumps	79.4	71.0	66.8	65.9	69.8	69.3	67.5	65.9	60.7	55.5	44.8
L24: Water Storage Pump	96.1	72.4	72.4	72.6	72.6	75.0	82.1	86.4	82.7	79.7	73.3
L25: Turbine Hall Entrance	76.8	59.8	61.0	65.6	59.2	71.3	62.4	64.0	65.3	65.9	53.3

Table 07-03
Survey Three Calculated Sound Power Levels, dB

Location	L _{Wa,T}	L _{Waf,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L2: AD fan Line 1	71.3	88.7	78.3	64.2	62.5	61.2	58.3	56.8	54.1	48.3	38.6
L3: AD fan Line 2	92.0	94.2	84.1	82.6	73.8	70.2	78.2	73.4	73.4	68.3	54.3
L4: AD fan Line 3	91.3	93.6	82.3	83.7	71.1	68.9	74.6	67.2	75.1	73.7	54.2
L5: AD fan Line 4	74.9	86.6	79.3	82.4	68.2	64.2	62.2	58.0	57.4	55.7	44.0
L6: Bag Filter Line 1	71.8	82.4	71.6	71.7	66.5	62.3	59.0	56.6	55.5	59.8	51.0
L7: Bag Filter Line 2	73.6	88.9	70.9	65.0	65.7	62.4	61.6	59.6	55.1	59.4	48.8
L8: Bag Filter Line 3	83.6	95.7	76.6	75.0	73.3	72.8	75.3	70.9	68.7	63.4	47.4
L9: Bag Filter Line 4	73.2	81.9	71.5	70.9	65.5	64.1	63.9	58.4	57.4	57.7	42.8
L10 to L13 Condensers logarithmic average	99.9	90.8	88.7	92.7	88.9	86.5	93.0	88.9	85.8	81.0	75.7
L16: Reception Hall Entrance	78.6	70.1	74.2	70.0	65.5	70.0	66.4	64.1	60.2	52.4	43.4
L18: West Lime Dosing Station Entrance	77.3	75.6	59.7	69.8	66.5	73.9	69.7	60.1	55.7	51.6	42.9
L19: Chain Conveyor Bagfilters Line 1&2	82.1	91.9	77.4	78.5	77.0	73.6	71.9	68.8	63.4	56.7	44.9
L20: Chain Conveyor Bagfilters Line 3&4	80.6	86.3	77.7	71.7	72.2	71.9	70.6	67.1	65.0	61.5	49.3
L21: East Lime Dosing Station Entrance	79.8	75.3	61.8	70.7	72.9	73.0	71.2	65.0	60.5	52.6	45.0
L22: Waste Bunker Entrance	73.8	70.6	69.0	79.8	68.3	64.5	64.1	61.3	56.5	47.3	30.7
L24: Water Storage Pump	98.2	73.7	75.7	73.2	71.8	75.3	82.1	89.2	85.4	81.0	77.6
L25: Turbine Hall Entrance	78.3	66.6	64.0	63.6	59.6	59.4	58.7	62.8	69.3	71.2	62.3
L27: Mobile Generator	89.3	81.6	90.5	91.0	88.5	79.3	76.8	69.4	66.5	59.9	59.6
L28: Lorry Cleaning Line	95.7	95.5	82.0	80.5	91.1	85.6	89.0	82.9	77.3	68.7	60.6

Table 07-04
Survey Four Calculated Sound Power Levels, dB

Location	L _{Wa,T}	L _{Waf,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L2: AD fan Line 1	96.0	94.6	84.9	82.7	72.9	69.5	73.2	73.9	72.5	67.5	51.8
L3: AD fan Line 2	97.5	95.5	85.5	83.6	75.0	70.4	77.7	75.8	73.4	67.2	54.4
L4: AD fan Line 3	98.2	94.4	86.2	85.1	74.0	72.5	75.4	74.6	74.9	69.5	54.7
L5: AD fan Line 4	96.1	94.9	89.0	86.5	74.6	72.9	79.3	74.8	74.0	70.9	57.4
L6: Bag Filter Line 1	78.0	92.6	75.9	71.0	66.6	70.1	67.4	64.6	61.6	65.8	59.6
L7: Bag Filter Line 2	89.0	101.2	79.6	75.3	73.1	79.5	80.6	77.7	66.7	60.4	48.7
L8: Bag Filter Line 3	82.5	97.2	78.4	74.4	69.3	69.5	68.1	66.6	69.7	64.2	48.8
L9: Bag Filter Line 4	77.3	91.0	77.9	71.2	64.4	66.0	64.2	60.2	62.0	59.6	44.1
L10 to L13 Condensers logarithmic average	101.0	94.2	90.4	92.1	89.5	86.4	96.0	89.0	85.4	80.6	74.1
L16: Reception Hall Entrance	79.4	76.3	72.9	67.4	64.5	70.9	68.7	66.6	62.0	55.0	44.0
L18: West Lime Dosing Station Entrance	71.9	80.3	60.6	56.8	57.5	57.6	52.7	59.2	59.1	52.3	43.4
L19: Chain Conveyor Bagfilters Line 1&2	81.7	96.9	79.2	78.4	74.3	74.4	71.8	68.6	63.9	58.8	46.1
L20: Chain Conveyor Bagfilters Line 3&4	83.4	93.6	80.7	77.0	74.4	74.8	72.6	70.0	68.5	64.1	51.3
L21: East Lime Dosing Station Entrance	76.5	80.4	64.5	66.7	68.4	66.1	67.0	65.3	59.1	51.4	41.8
L22: Waste Bunker Entrance	73.5	75.4	70.1	77.2	65.4	64.0	65.4	61.5	55.1	46.6	35.9
L24: Water Storage Pump	96.9	77.5	76.6	71.3	72.0	76.6	81.9	88.1	83.8	81.7	76.1
L25: Turbine Hall Entrance	68.7	72.8	67.1	63.2	62.2	59.6	57.9	56.2	52.5	52.4	33.0

Table 07-05
Survey Five Calculated Sound Power Levels, dB

Location	L _{WA}	L _{WAF,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L2: AD fan Line 1	96.0	95.4	85.7	84.4	74.2	71.1	74.0	74.5	71.4	66.1	53.2
L3: AD fan Line 2	94.9	95.4	84.0	83.4	73.2	70.2	75.7	75.7	73.8	67.6	54.3
L4: AD fan Line 3	93.2	94.7	84.4	84.2	73.4	71.2	71.9	71.7	72.5	68.7	54.3
L5: AD fan Line 4	94.0	93.9	86.7	85.9	74.3	72.6	76.8	74.3	74.2	71.1	56.6
L6: Bag Filter Line 1	77.8	91.1	76.2	70.1	66.7	68.3	65.6	62.9	62.3	67.5	62.1
L7: Bag Filter Line 2	80.6	100.8	79.0	73.6	69.2	70.7	69.5	65.3	61.8	59.4	45.3
L8: Bag Filter Line 3	81.2	97.1	78.5	74.8	67.7	69.1	67.8	67.1	69.5	64.7	50.3
L9: Bag Filter Line 4	75.4	90.0	77.1	69.4	63.3	63.9	62.8	58.7	60.9	59.6	46.3
L10 to L13 Condensers logarithmic average	100.1	93.3	88.6	91.4	88.7	85.7	93.3	88.7	84.9	80.0	73.0
L16: Reception Hall Entrance	78.4	76.5	77.7	73.2	71.5	70.8	69.2	66.1	57.7	50.6	41.2
L18: West Lime Dosing Station Entrance	67.0	78.1	60.8	57.0	60.1	61.0	56.6	53.8	50.4	53.1	43.4
L19: Chain Conveyor Bagfilters Line 1&2	82.5	96.9	78.7	77.6	77.2	75.1	72.8	68.3	63.2	59.8	47.1
L20: Chain Conveyor Bagfilters Line 3&4	84.1	93.8	79.8	77.5	75.3	75.4	74.3	71.0	69.8	64.8	51.1
L21: East Lime Dosing Station Entrance	76.8	76.9	63.7	70.3	70.9	66.4	67.5	66.0	59.5	52.6	43.0
L22: Waste Bunker Entrance	83.3	71.0	69.4	72.2	72.5	74.2	74.1	71.5	66.1	57.1	42.5
L23: Ammonia Dosing Pumps	81.7	76.5	71.2	69.3	77.7	69.8	67.7	67.8	62.2	55.6	47.7
L24: Water Storage Pump	96.5	74.9	72.7	71.7	68.6	79.6	84.7	86.3	83.2	80.3	74.1
L25: Turbine Hall Entrance	70.2	66.8	65.6	63.6	63.0	61.7	61.1	56.6	50.0	50.2	28.7

Table 07-06
Survey Six Calculated Sound Power Levels, dB

Location	LWA	LWAF,T									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L2: AD fan Line 1	95.9	94.6	86.6	83.3	74.0	70.3	74.9	74.6	73.3	70.5	51.1
L3: AD fan Line 2	76.3	91.2	77.3	75.7	67.1	65.6	64.3	60.8	57.6	54.8	41.3
L4: AD fan Line 3	94.2	93.2	83.6	83.4	72.5	70.1	73.1	75.3	74.4	72.1	52.1
L5: AD fan Line 4	93.5	95.0	87.9	85.9	73.9	73.4	76.0	75.0	75.1	73.7	54.4
L6: Bag Filter Line 1	79.7	95.5	77.8	74.2	71.6	71.5	69.3	66.9	64.1	69.3	58.3
L7: Bag Filter Line 2	82.1	96.1	75.2	86.4	69.1	71.2	69.1	67.4	65.6	65.0	51.9
L8: Bag Filter Line 3	83.0	97.5	78.9	81.3	72.4	72.7	71.2	68.6	68.6	65.0	46.8
L9: Bag Filter Line 4	75.5	90.3	77.6	70.6	63.1	64.9	63.9	58.9	58.6	61.4	44.1
L10 to L13 Condensers logarithmic average	99.5	90.9	86.7	91.0	89.0	85.8	91.7	88.3	84.3	81.3	69.2
L16: Reception Hall Entrance	73.7	69.5	72.2	66.1	61.6	66.3	66.3	60.1	52.1	43.2	29.5
L18: West Lime Dosing Station Entrance	66.1	78.9	61.2	60.0	60.4	58.3	55.0	52.5	50.5	54.2	40.2
L19: Chain Conveyor Bagfilters Line 1&2	81.9	96.0	78.7	80.1	71.2	74.6	72.2	69.5	64.3	60.9	45.1
L20: Chain Conveyor Bagfilters Line 3&4	84.2	96.0	79.3	77.1	75.6	76.4	74.6	71.3	68.0	64.4	47.7
L21: East Lime Dosing Station Entrance	75.7	78.8	64.9	68.5	68.4	64.9	66.6	64.9	59.0	53.2	38.5
L22: Waste Bunker Entrance	69.7	77.6	66.5	65.4	63.2	61.8	60.4	57.5	52.7	43.3	23.8
L23: Ammonia Dosing Pumps	80.2	70.2	72.5	71.1	73.3	71.4	67.8	66.1	59.5	55.3	42.6
L24: Water Storage Pump	98.0	74.2	72.4	72.7	69.2	75.5	83.0	87.3	85.7	82.7	73.1
L25: Turbine Hall Entrance	70.9	69.2	63.1	59.2	61.3	59.1	61.2	60.7	57.3	49.7	31.3
L27: Mobile Generator	87.8	87.2	76.4	82.3	89.2	80.9	76.3	72.9	68.0	66.7	53.3

Table 07-07
Survey Seven Calculated Sound Power Levels, dB

Location	LWA	LWAF,T									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L1: Base of stack	72.1	87.4	83.2	70.1	60.3	58.8	59.2	54.8	51.9	43.5	28.7
L2: AD fan Line 1	97.0	95.0	82.6	81.3	69.8	67.7	72.5	67.2	71.4	67.4	53.0
L3: AD fan Line 2	95.2	96.5	85.4	83.0	74.3	70.9	78.1	74.7	73.2	67.6	55.7
L4: AD fan Line 3	77.2	96.9	81.6	72.5	65.7	65.3	64.3	60.2	56.6	52.4	37.2
L5: AD fan Line 4	95.0	95.7	88.3	85.7	74.1	73.0	78.5	76.6	74.6	71.8	56.5
L6: Bag Filter Line 1	78.8	92.1	74.7	69.8	64.5	67.2	65.2	64.5	65.9	69.3	61.5
L7: Bag Filter Line 2	89.6	101.2	81.2	75.1	73.0	80.7	81.3	78.0	67.3	61.0	52.5
L8: Bag Filter Line 3	82.4	99.8	77.0	72.8	68.7	77.9	73.2	68.4	65.0	62.3	47.8
L9: Bag Filter Line 4	75.2	90.8	77.5	71.4	68.8	63.8	64.9	59.4	59.2	59.1	41.7
L10 to L13 Condensers logarithmic average	100.9	90.8	86.4	92.3	89.1	88.1	92.2	90.1	85.7	80.1	72.2
L16: Reception Hall Entrance	76.6	68.4	69.8	71.8	66.3	67.5	65.4	65.0	58.9	51.5	42.0
L18: West Lime Dosing Station Entrance	63.2	77.0	60.1	56.8	54.8	55.8	51.6	49.9	49.5	51.6	37.0
L19: Chain Conveyor Bagfilters Line 1&2	84.0	95.2	80.4	77.7	74.4	77.5	74.5	70.6	67.8	61.4	47.4
L20: Chain Conveyor Bagfilters Line 3&4	81.4	96.0	75.3	74.3	70.6	73.5	72.1	67.3	66.0	62.3	49.5
L21: East Lime Dosing Station Entrance	79.6	81.4	66.1	71.3	68.7	71.6	72.1	67.2	62.1	54.9	44.3
L22: Waste Bunker Entrance	78.4	78.3	71.9	72.0	71.8	70.2	68.9	66.2	63.0	51.7	32.4
L23: Ammonia Dosing Pumps	79.1	70.8	71.5	65.3	78.8	70.1	67.0	66.8	59.6	53.6	46.8
L24: Water Storage Pump	80.0	70.9	69.8	68.7	68.6	70.9	70.6	66.8	62.3	60.1	58.7
L25: Turbine Hall Entrance	67.8	65.2	61.7	60.8	61.7	60.4	58.0	54.2	47.6	48.6	28.3
L29: Mobile Generator	87.9	83.4	86.7	89.0	91.9	75.8	72.6	67.7	62.2	58.3	45.9
LA: Off-site Steam Release	108.8	112.6	106.5	101.4	90.8	91.5	92.8	97.2	99.7	86.7	64.9

Location	LWA	LWA _{f,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
LB: Off-site Steam Release	91.2	87.5	75.7	69.7	65.8	67.0	68.6	75.2	77.5	84.9	82.6
LD: Traffic on Picow Farm Road	80.1	76.1	74.2	67.1	68.3	70.6	72.7	68.0	60.8	57.5	47.9

Table 07-08
Survey Eight Calculated Sound Power Levels, dB

Location	LWA	LW _{Af,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L1: Base of stack	71.9	85.3	72.5	67.2	58.5	58.4	60.1	56.2	53.7	43.0	32.7
L2: AD fan Line 1	75.5	94.9	76.2	67.9	65.0	67.2	64.7	63.5	57.9	49.9	42.6
L3: AD fan Line 2	94.3	96.1	84.2	83.0	73.5	71.0	77.6	74.5	72.7	67.6	55.6
L4: AD fan Line 3	89.9	95.0	80.7	83.4	69.7	69.0	75.8	66.9	75.4	65.8	52.4
L5: AD fan Line 4	73.0	86.4	74.2	66.4	61.7	63.0	61.4	57.8	55.3	52.2	38.6
L6: Bag Filter Line 1	78.2	95.0	72.9	70.3	68.8	71.4	69.6	67.6	62.5	55.5	44.8
L7: Bag Filter Line 2	82.5	100.0	79.4	73.2	71.1	73.7	72.4	68.9	64.9	60.0	51.5
L8: Bag Filter Line 3	81.4	98.4	75.3	72.7	68.7	73.3	70.7	66.7	68.9	62.4	48.1
L9: Bag Filter Line 4	71.9	85.7	69.8	64.8	61.1	62.0	61.9	58.0	57.9	59.0	44.2
L10 to L13 Condensers logarithmic average	98.8	91.4	88.6	92.1	88.3	85.7	91.8	87.7	84.2	80.1	73.9
L16: Reception Hall Entrance	69.6	61.6	58.2	60.4	54.4	60.3	60.0	56.9	50.7	40.1	28.8
L18: West Lime Dosing Station Entrance	75.0	79.6	61.8	61.8	65.7	65.2	65.6	62.1	62.5	57.5	44.8
L19: Chain Conveyor Bagfilters Line 1&2	85.0	97.4	79.9	77.9	75.1	77.7	76.0	74.0	69.3	61.7	55.1
L20: Chain Conveyor Bagfilters Line 3&4	78.5	91.6	74.0	70.5	69.0	71.8	68.0	65.3	63.8	60.2	49.1
L21: East Lime Dosing Station Entrance	76.0	76.2	57.8	66.7	69.6	67.0	66.4	64.9	58.4	51.8	42.8
L22: Waste Bunker Entrance	69.8	72.7	63.4	63.8	63.2	60.7	60.5	58.2	53.9	43.9	25.8
L23: Ammonia Dosing Pumps	76.0	67.0	67.5	62.9	64.8	66.5	63.2	64.9	56.6	51.7	41.0
L24: Water Storage Pump	95.9	71.0	70.3	70.7	69.6	76.7	85.1	85.8	83.2	80.3	73.9
L25: Turbine Hall Entrance	66.1	64.6	66.4	61.4	60.4	58.5	58.7	52.2	46.6	43.8	27.9

Location	LWA	LW _{Af,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
LA: Off-site Steam Release	110.8	114.5	100.2	96.8	91.1	90.0	92.9	100.2	102.1	89.7	68.7
LD: Traffic on Picow Farm Road	76.7	74.2	77.0	64.9	64.8	65.4	70.2	64.1	55.7	49.8	48.1

Table 07-09
Survey Nine Calculated Sound Power Levels, dB

Location	LWA	LW _{Af,T}									
		31.5Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	16 KHz
L10 to L13 Condensers logarithmic average	99.7	101.8	98.1	96.6	93.1	92.1	95.6	94.0	89.7	83.7	74.2
L25: Turbine Hall Entrance	71.8	69.1	65.2	71.9	74.7	71.2	66.9	61.3	51.5	40.2	28.0

APPENDIX 09

Noise Model Results

Figure 08-01
Survey One Specific Sound Level Noise Model, dB



Figure 08-02
Survey Two Specific Sound Level Noise Model, dB

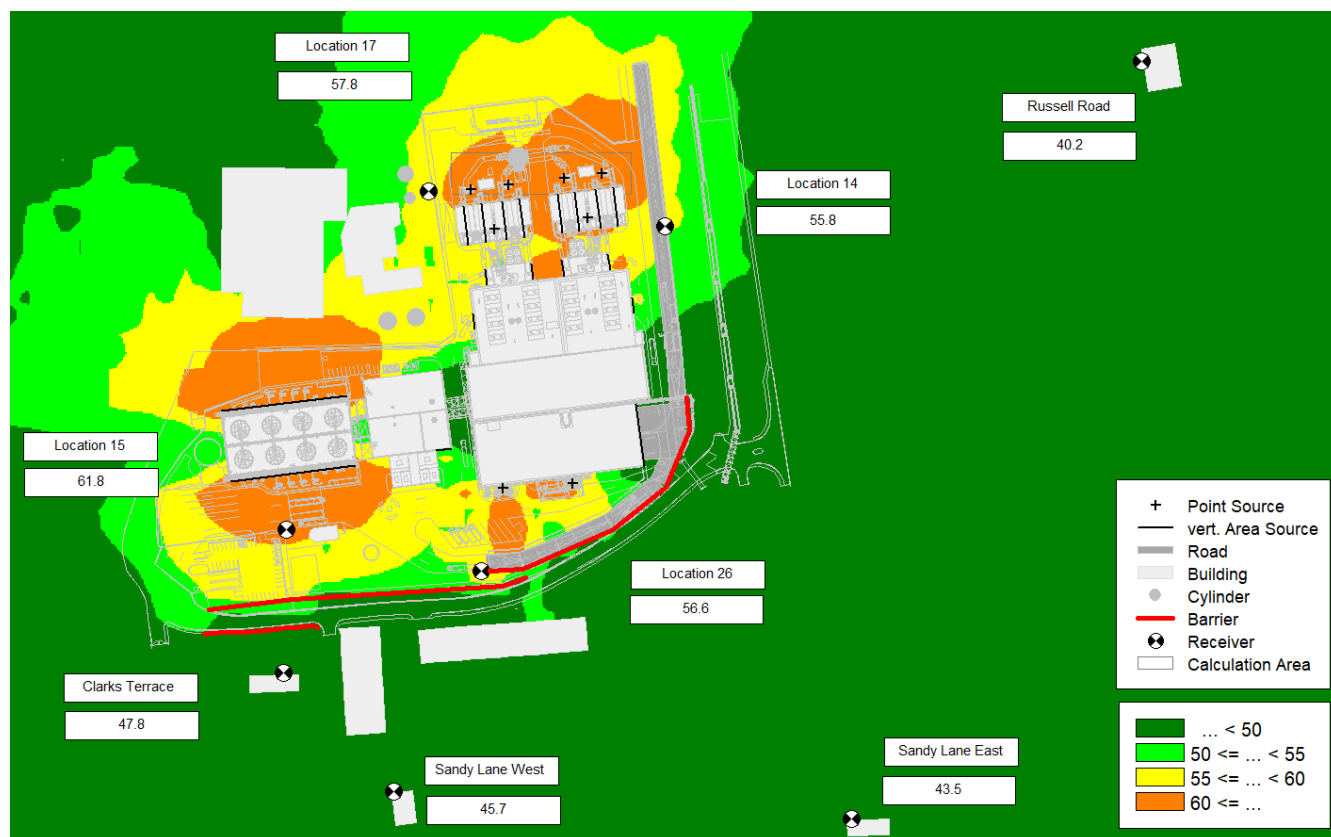


Figure 08-03
Survey Three Specific Sound Level Noise Model, dB

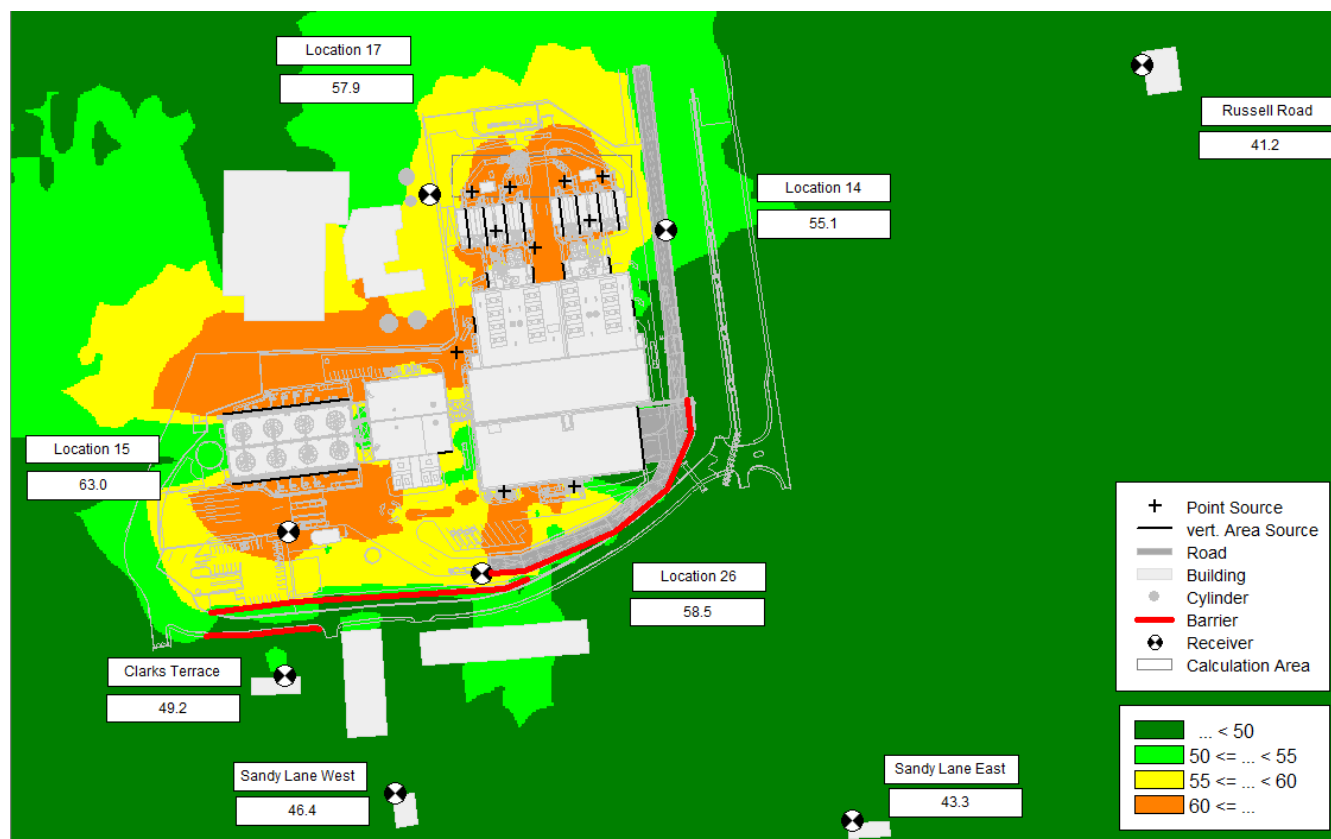


Figure 08-04
Survey Four Specific Sound Level Noise Model, dB

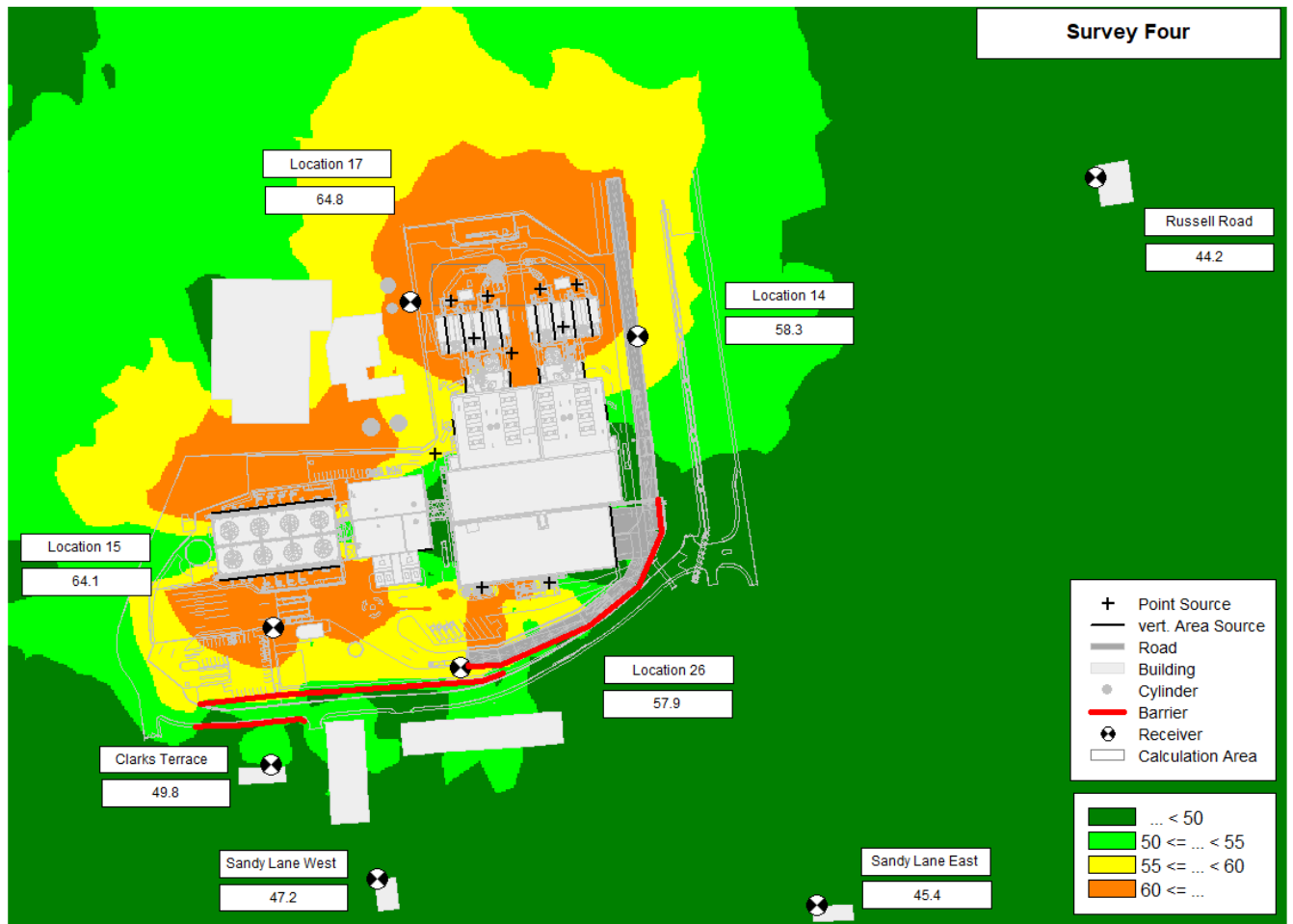


Figure 08-05
Survey Five Specific Sound Level Noise Model, dB



Figure 08-06
Survey Six Specific Sound Level Noise Model, dB

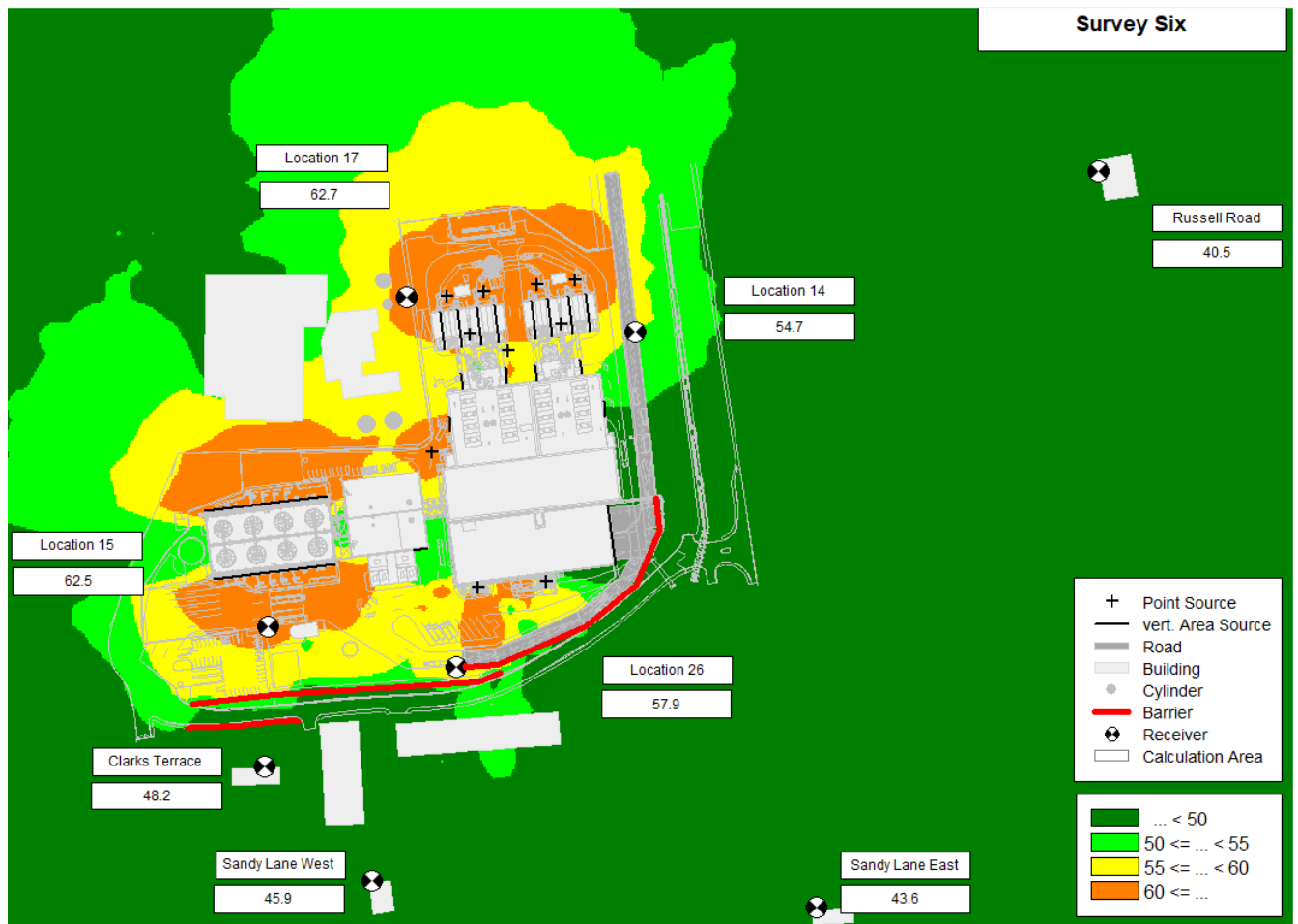


Figure 08-07
Survey Seven Specific Sound Level Noise Model, dB

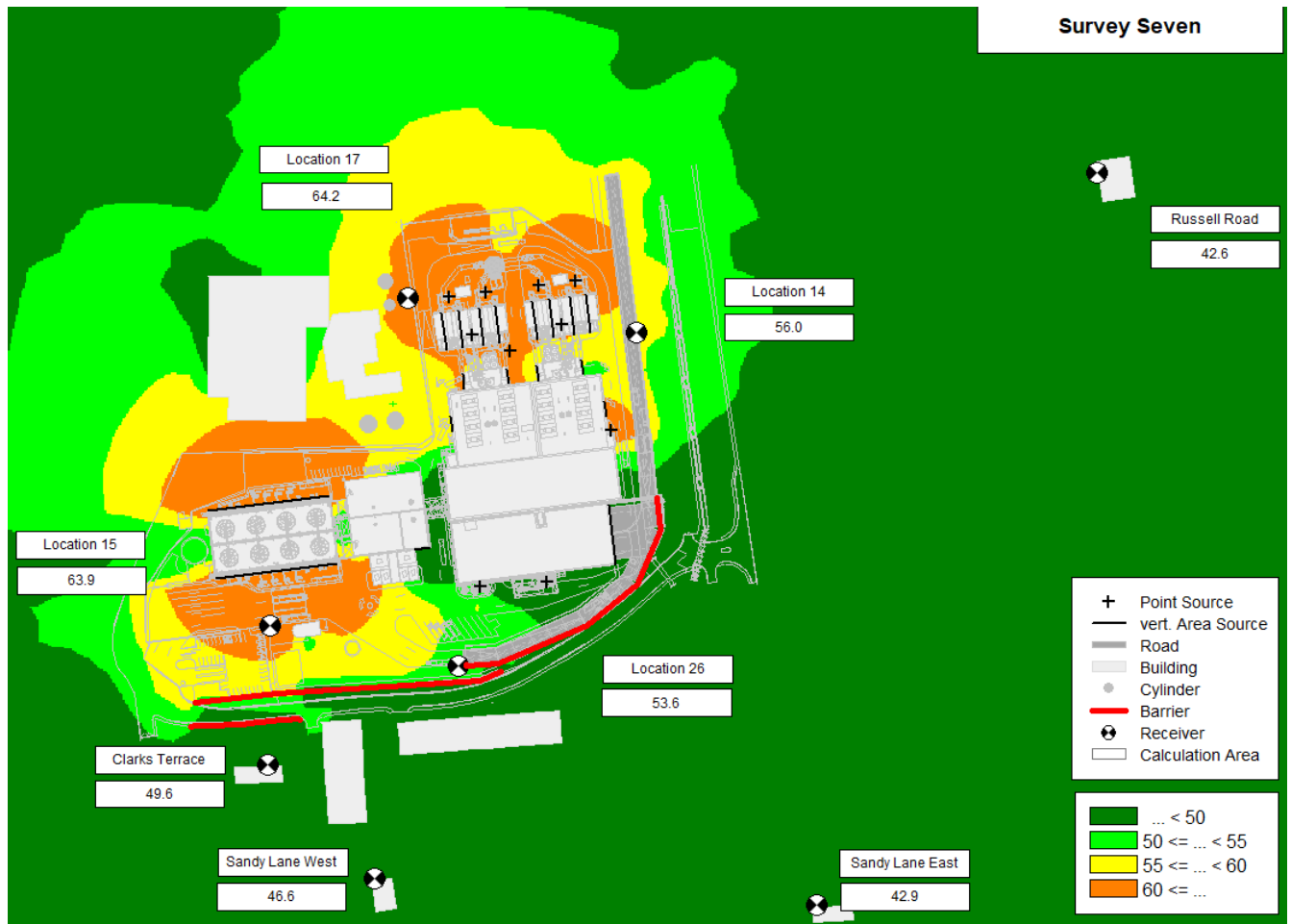


Figure 08-08
Survey Eight Specific Sound Level Noise Model, dB



Figure 08-09
Survey Nine Specific Sound Level Noise Model, dB



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