

KLF Holdings Pty Ltd Recycling Facility

Noise Compliance Report Camellia Facility - Quarter 1 2024

Prepared for KLF Holdings Pty Ltd

April 2024

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KLF Holdings Pty Ltd

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April 2024

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TABLE OF CONTENTS

1	Introduction	1
1.1	Background	1
1.2	Attended monitoring locations	1
1.3	Terminology and abbreviations	3
2	Noise limits	4
2.1	Environment protection licence	4
2.2	Noise limits	4
2.3	Meteorological conditions	4
2.4	Other considerations	5
3	Methodology	6
3.1	Overview	6
3.2	Attended noise monitoring	6
3.3	Modifying factors	6
3.4	Instrumentation	7
4	Results	8
4.1	Total measured noise levels and atmospheric conditions	8
4.2	Site only noise levels	9
5	Summary	12

Appendices

Appendix A	Noise perception and examples	A.1
Appendix B	Regulator documents	B.1
Appendix C	Calibration certificates	C.1
Appendix D	BOM Sydney Olympic Park weather station data	D.1

Tables

Table 1.1	Attended noise monitoring locations	1
Table 1.2	Terminology and abbreviations	3
Table 2.1	Noise impact limits, dB	4
Table 2.2	Applicable meteorological conditions	4
Table 3.1	Attended noise monitoring equipment	7
Table 4.1	Total measured noise levels – March 2024 ¹	8

Table 4.2	Measured atmospheric conditions – March 2024	9
Table 4.3	Site noise levels and limits – March 2024	10
Table A.1	Perceived change in noise	A.2
Figures		
Figure 1.1	Site locality and attended noise monitoring locations	2
Figure A.1	Common noise levels	A.2

1 Introduction

1.1 Background

EMM Consulting Pty Limited (EMM) has been engaged to complete quarterly attended compliance noise monitoring for the Camellia Waste Recycling Facility (the site) on behalf of KLF Holdings Pty Limited (KLF). This quarterly monitoring is a requirement as detailed in the site's Environment Protection Licence (EPL12700) dated 29 July 2021.

This report presents the results and findings of Quarter 1 2024 attended noise monitoring conducted during the day, evening and night periods of 21 and 22 March 2024.

This report addresses the following conditions which are present in the site's EPL listed below:

- L3.1 – L3.4 are addressed in Table 4.3
- L3.5 is addressed in Table 4.2
- L3.6 – L3.7 are addressed in Section 1.2 and Figure 1.1
- L3.8 is addressed in Section 3.3.

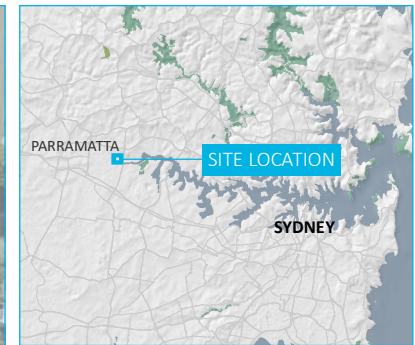
1.2 Attended monitoring locations

Site monitoring locations are detailed in Table 1.1 and shown on Figure 1.1. It should be noted that Figure 1.1 shows actual monitoring positions, not necessarily the location of residences. However, these are considered representative of the potentially most exposed residences to site noise and therefore compliance at these locations would imply compliance at all residences.

Table 1.1 Attended noise monitoring locations

ID	Location	Coordinates (MGA56)	
		Easting	Northing
A1	530 John Street, Rydalmere	319369	6255948
A2	45 John Street, Rydalmere	319319	6256051
A3	24 Milton Street, Rydalmere	319230	6256149

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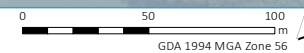


- KEY**
- A Noise measurement location - attended
 - Site boundary
 - Named waterbody
- INSET KEY**
- Major road
 - NPWS reserve
 - State forest

Site locality and attended noise monitoring locations

KLF Holdings Camelia
Quarterly noise compliance
Figure 1.1

Source: EMM (2021); MetroMap (2021); DFSI (2017); GA (2011); ASGC (2006)



1.3 Terminology and abbreviations

Some definitions of terms and abbreviations which may be used in this report are provided in Table 1.2.

Table 1.2 Terminology and abbreviations

Term/descriptor	Definition
dB(A)	Noise level measurement units are decibels (dB). The “A” weighting scale is used to approximate how humans hear noise.
L _{Amax}	The maximum root mean squared A-weighted noise level over a time period.
L _{A1}	The A-weighted noise level which is exceeded for 1 per cent of the time.
LA1,1minute	The A-weighted noise level which is exceeded for 1 per cent of the specified time period of 1 minute.
LA10	The A-weighted noise level which is exceeded for 10 percent of the time.
LAeq	The energy average A-weighted noise level.
LA50	The A-weighted noise level which is exceeded for 50 per cent of the time, also the median noise level during a measurement period.
LA90	The A-weighted noise level exceeded for 90 percent of the time, also referred to as the “background” noise level and commonly used to derive noise limits.
L _{Amin}	The minimum A-weighted noise level over a time period.
LCeq	The energy average C-weighted noise energy during a measurement period. The “C” weighting scale is used to take into account low-frequency components of noise within the audibility range of humans.
SPL	Sound pressure level. Fluctuations in pressure measured as 10 times a logarithmic scale, with the reference pressure being 20 micropascals.
Hertz (Hz)	The frequency of fluctuations in pressure, measured in cycles per second. Most sounds are a combination of many frequencies together.
AWS	Automatic weather station used to collect meteorological data, typically at an altitude of 10 metres.
VTG	Vertical temperature gradient in degrees Celsius per 100 metres altitude.
Sigma-theta	The standard deviation of the horizontal wind direction over a period of time.
IA	Inaudible. When site noise is noted as IA then there was no site noise at the monitoring location.
NM	Not Measurable. If site noise is noted as NM, this means some noise was audible but could not be quantified.
Day	Monday – Saturday: 7 am to 6 pm, on Sundays and Public Holidays: 8 am to 6 pm.
Evening	Monday – Saturday: 6 pm to 10 pm, on Sundays and Public Holidays: 6 pm to 10 pm.
Night	Monday – Saturday: 10 pm to 7 am, on Sundays and Public Holidays: 10 pm to 8 am.

Appendix A provides further information that gives an indication as to how an average person perceives changes in noise level, and examples of common noise levels.

2 Noise limits

2.1 Environment protection licence

Noise assessment limits are provided in the site's EPL. These are specified for day, evening and night periods at locations which are representative of residences potentially most impacted by site noise. Relevant sections of the EPL are reproduced in Appendix B.1.

2.2 Noise limits

Noise limits based on the site's Environmental Protection License (EPL) L3.1 are provided in Table 2.1.

Table 2.1 Noise impact limits, dB

Location	ID	Day	Evening	Night	Night
		L _{Aeq,15minute}	L _{Aeq,15minute}	L _{Aeq,15minute}	L _{AFmax}
523-530 John Street Rydalmere	A1	50	48	43	59
28 & 30 Sylvia Street Rydalmere, 33 Nowill Street Rydalmere	-	50	48	43	59
37-45 John Street Rydalmere	A2	50	48	43	59
22 & 24 Milton Street Rydalmere, 33 & 35 John Street Rydalmere	A3	50	48	43	59

2.3 Meteorological conditions

Condition L3.2 of the EPL states the meteorological conditions which the noise limits apply under:

- L3.2 Noise-enhancing meteorological conditions:
- The noise limits set out in condition L3.1 apply under the meteorological conditions listed in the table below.
 - For those meteorological conditions not referred to in condition L3.2(a) table, the noise limits that apply are the noise limits in conditions L3.1 table plus 5 dB.

The table from Condition L3.2 is reproduced in Table 2.2 below.

Table 2.2 Applicable meteorological conditions

Assessment period	Meteorological conditions
Day	Stability Categories A, B, C and D with wind speeds up to and including 3 m/s at 10 m above ground level.
Evening	Stability Categories A, B, C and D with wind speeds up to and including 3 m/s at 10 m above ground level.

Table 2.2 **Applicable meteorological conditions**

Assessment period	Meteorological conditions
Night	Stability Categories A, B, C and D with wind speeds up to and including 3 m/s at 10 m above ground level; or Stability category E and F with wind speeds up to and including 2 m/s at 10 m above ground level.

L3.3 For the purpose of condition L3.1;

- a) Day means the period from 7am to 6pm Monday to Saturday and the period from 8am to 6pm Sunday and public holidays.
- b) Evening means the period from 6pm to 10pm.
- c) Night means the period from 10pm to 7am Monday to Saturday and the period from 10pm to 8am Sunday and public holidays

Condition L3.4 specifies the source of meteorological data to be used and method for determining stability categories:

L3.4 For the purpose of condition L3.2:

- a) The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Sydney Olympic Park, NSW (Station no 066212).
- b) Stability category shall be determined using the following method from Fact Sheet D of the Noise Policy for Industry (NSW EPA, 2017):
 - i. Use of sigma-theta data (section D1.4).

2.4 Other considerations

Monitoring and reporting have been done in accordance with the two NSW EPA documents, 'Noise Policy for Industry' (NPfI) issued in October 2017 and the 'Approved methods for the measurement and analysis of environmental noise in NSW' (Approved Methods) issued in January 2022.

3 Methodology

3.1 Overview

Attended environmental noise monitoring was done in general accordance with Australian Standard AS1055 'Acoustics, Description and Measurement of Environmental Noise' and relevant NSW requirements.

Meteorological data was obtained from the Sydney Olympic Park automatic weather station (AWS) (station ID 066212) which allowed correlation of atmospheric parameters during measured noise levels. Extracted sections of the weather data are reproduced in Appendix D.

3.2 Attended noise monitoring

During this survey, attended noise monitoring was conducted during the day/evening/night period at each location. The duration of each measurement was 15 minutes. Atmospheric conditions were also measured at each monitoring location using a hand held device.

Measured sound levels from various sources were noted during each measurement, and particular attention was paid to the extent of site's contribution (if any) to measured levels. At each monitoring location, the site-only $L_{Aeq,15minute}$ and L_{Amax} were measured directly or determined by other methods detailed in Section 7.1 of the NPfI.

If the exact noise levels from site could not be established due to masking by other noise sources in a similar frequency range, but site noise was determined to be at least 5 dB lower than relevant limits, then a maximum estimate of site noise may be provided. This is expressed as a 'less than' quantity, such as <20 dB or <30 dB.

The terms 'Inaudible' (IA) or 'Not Measurable' (NM) may be used in this report. When site noise is noted as IA, no site noise was audible at the monitoring location. When site noise is noted as NM, this means site noise was audible but could not be quantified. All results noted as NM in this report were due to one or more of the following:

- Site noise levels were extremely low and unlikely, in many cases, to be noticed.
- Site noise levels were masked by other more dominant noise sources that are characteristic of the environment, such as breeze in foliage or continuous road traffic noise, that cannot be eliminated by monitoring at an alternate or intermediate location.
- It was not feasible or reasonable to employ methods such as to move closer and back calculate. Cases may include rough terrain preventing closer measurement, addition/removal of significant source to receiver shielding caused by moving closer, and meteorological conditions where back calculation may not be representative.

3.3 Modifying factors

All measurements were evaluated for potential modifying factors in accordance with the NPfI. Assessment of modifying factors is undertaken at the time of measurement if the site was audible and quantifiable. If applicable, modifying factor penalties have been reported and added to measured site-only L_{Aeq} noise levels.

Low-frequency modifying factor penalties have only been applied to site-only L_{Aeq} levels if the site was the only contributing low-frequency noise source. Specific methodology for assessment of each modifying factor is outlined in Fact Sheet C of the NPfI.

3.4 Instrumentation

Equipment used to measure environmental noise levels is detailed in Table 3.1. Calibration certificates are provided in Appendix C.

Table 3.1 **Attended noise monitoring equipment**

Item	Serial number	Calibration due date	Relevant standard
Brüel & Kjær Type 2250 sound level meter	3008201	12 July 2025	IEC 61672-1:2002
Svantek V36 calibrator	138019	01 August 2024	IEC 60942:2003

4 Results

4.1 Total measured noise levels and atmospheric conditions

Overall noise levels measured at each location during attended measurements are provided in Table 4.1. Levels in this table are not necessarily the result of activity at site.

Table 4.1 Total measured noise levels – March 2024¹

Location	Start date and time	L _{Amax} dB	L _{A1} dB	L _{A10} dB	L _{Aeq} dB	L _{A50} dB	L _{A90} dB	L _{Amin} dB
A1	21/03/2024 5:45	69	59	56	54	53	51	49
A1	21/03/2024 6:00	63	57	54	52	52	50	48
A2	21/03/2024 6:18	64	58	55	53	52	50	48
A3	21/03/2024 6:36	71	59	53	52	51	49	47
A1	21/03/2024 7:03	71	66	56	55	52	51	49
A1	21/03/2024 7:18	68	62	56	55	55	53	50
A2	21/03/2024 7:34	68	61	56	55	54	53	51
A2	21/03/2024 7:50	65	61	56	54	53	52	50
A3	21/03/2024 8:10	78	61	58	56	55	53	51
A3	21/03/2024 8:25	67	60	58	55	55	50	48
A1	21/03/2024 18:23	61	55	52	50	49	47	45
A2	21/03/2024 18:43	71	64	54	53	50	48	45
A1	22/03/2024 5:45	69	59	54	51	49	47	46
A1	22/03/2024 6:01	70	60	54	53	52	50	47
A2	22/03/2024 6:18	68	61	55	52	50	48	46
A3	22/03/2024 6:37	73	59	53	52	50	48	46
A1	22/03/2024 7:11	64	61	55	53	51	49	46
A1	22/03/2024 7:28	67	58	55	52	51	49	47
A2	22/03/2024 7:50	67	60	55	52	50	48	45
A2	22/03/2024 8:07	73	64	56	54	52	49	46
A3	22/03/2024 8:33	67	64	57	55	54	50	47
A3	22/03/2024 8:48	66	63	57	55	54	53	50
A1	22/03/2024 18:05	68	55	52	51	49	47	45
A2	22/03/2024 18:19	66	61	54	51	48	46	43

Notes: 1. Levels in this table are not necessarily the result of activity at site.

Atmospheric condition data measured by the operator during each measurement using a hand-held weather meter is shown in Table 4.2. The wind speed, direction and temperature were measured at approximately 1.5

metres above ground. Attended noise monitoring is not done during rain, hail, or wind speeds above 5 m/s at microphone height.

Table 4.2 Measured atmospheric conditions – March 2024

Location	Start date and time	Temperature °C	Wind speed m/s	Wind direction ° Magnetic north ¹	Cloud cover 1/8s
A1	21/03/2024 5:45	15	<0.5	-	2
A1	21/03/2024 6:00	14	<0.5	-	1
A2	21/03/2024 6:18	14	<0.5	-	1
A3	21/03/2024 6:36	14	<0.5	-	0
A1	21/03/2024 7:03	14	<0.5	-	0
A1	21/03/2024 7:18	14	<0.5	-	0
A2	21/03/2024 7:34	14	<0.5	-	0
A2	21/03/2024 7:50	15	<0.5	-	0
A3	21/03/2024 8:10	15	<0.5	-	0
A3	21/03/2024 8:25	15	<0.5	-	0
A1	21/03/2024 18:23	20	<0.5	-	8
A2	21/03/2024 18:43	20	<0.5	-	8
A1	22/03/2024 5:45	13	<0.5	-	8
A1	22/03/2024 6:01	13	<0.5	-	8
A2	22/03/2024 6:18	14	<0.5	-	8
A3	22/03/2024 6:37	13	<0.5	-	8
A1	22/03/2024 7:11	14	<0.5	-	8
A1	22/03/2024 7:28	14	<0.5	-	8
A2	22/03/2024 7:50	15	<0.5	-	8
A2	22/03/2024 8:07	16	<0.5	-	8
A3	22/03/2024 8:33	16	<0.5	-	8
A3	22/03/2024 8:48	17	<0.5	-	8
A1	22/03/2024 18:05	22	<0.5	-	8
A2	22/03/2024 18:19	22	<0.5	-	8

Notes: 1. Wind speeds of 0.5/m/s and wind directions of “-” indicates calm conditions at monitoring location.

4.2 Site only noise levels

4.2.1 Modifying factors

There were no modifying factors, as defined in the NPfI, applicable during the survey.

4.2.2 Monitoring results

Table 4.3 provides site noise levels in the absence of other sources, where possible, and includes weather data from the Sydney Olympic Park AWS. Noise enhancing limits are applicable if weather conditions were within specified parameters during each measurement, otherwise the NPfI's 'very noise enhancing' limits apply (ie noise enhancing plus 5dB).

Table 4.3 Site noise levels and limits – March 2024

Location	Start Date and Time	Wind		Stability Class	Noise enhancing limits apply? ¹	Limits, dB		Site levels, dB		Exceedances, dB ¹	
		Speed m/s	Direction ³			L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute} ²	L _{Amax}	L _{Aeq,15minute}	L _{Amax}
A1	21/03/2024 5:45	1.1	261	F	N	43	59	44	58	1 ⁶	Nil
A1	21/03/2024 6:00	1.1	261	D	N	43	59	43	58	Nil	Nil
A2	21/03/2024 6:18	1.6	267	D	N	43	59	41	59	Nil	Nil
A3	21/03/2024 6:36	1.6	267	D	N	43	59	42	57	Nil	Nil
A1	21/03/2024 7:03	1.7	261	C	N	50	N/A	49	N/A	Nil	N/A
A1	21/03/2024 7:18	2.0	257	C	N	50	N/A	50	N/A	Nil	N/A
A2	21/03/2024 7:34	2.0	257	C	N	50	N/A	49	N/A	Nil	N/A
A2	21/03/2024 7:50	2.2	250	C	N	50	N/A	49	N/A	Nil	N/A
A3	21/03/2024 8:10	2.2	250	A	N	50	N/A	NM	N/A	Nil	N/A
A3	21/03/2024 8:25	2.3	232	A	N	50	N/A	NM	N/A	Nil	N/A
A1 ⁴	21/03/2024 18:23	3.5	118	D	Y	53 ⁵	N/A	N/A	N/A	N/A	N/A
A2 ⁴	21/03/2024 18:43	3.5	118	D	Y	53 ⁵	N/A	N/A	N/A	N/A	N/A
A1	22/03/2024 5:45	1.4	261	D	N	43	59	42	58	Nil	Nil
A1	22/03/2024 6:01	1.4	261	E	N	43	59	43	57	Nil	Nil

Table 4.3 Site noise levels and limits – March 2024

Location	Start Date and Time	Wind		Stability Class	Noise enhancing limits apply? ¹	Limits, dB		Site levels, dB		Exceedances, dB ¹	
		Speed m/s	Direction ³			L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute} ²	L _{Amax}	L _{Aeq,15minute}	L _{Amax}
A2	22/03/2024 6:18	1.3	257	E	N	43	59	42	59	Nil	Nil
A3	22/03/2024 6:37	1.3	257	E	N	43	59	40	56	Nil	Nil
A1	22/03/2024 7:11	1.0	270	C	N	50	N/A	49	N/A	Nil	N/A
A1	22/03/2024 7:28	1.4	256	C	N	50	N/A	49	N/A	Nil	N/A
A2	22/03/2024 7:50	1.7	257	C	N	50	N/A	49	N/A	Nil	N/A
A2	22/03/2024 8:07	1.7	257	C	N	50	N/A	49	N/A	Nil	N/A
A3	22/03/2024 8:33	1.8	255	C	N	50	N/A	NM	N/A	Nil	N/A
A3	22/03/2024 8:48	1.6	244	C	N	50	N/A	NM	N/A	Nil	N/A
A1 ⁴	22/03/2024 18:05	2.8	35	F	Y	53 ⁵	N/A	N/A	N/A	N/A	N/A
A2 ⁴	22/03/2024 18:19	2.7	10	F	Y	53 ⁵	N/A	N/A	N/A	N/A	N/A

- Notes:
- Noise enhancing limits are applicable if weather conditions were within parameters specified in Section 2.3.
 - Site-only L_{Aeq,15minute} includes modifying factor penalties if applicable.
 - Degrees magnetic north, “-” indicates calm conditions.
 - Site was not in operation during evening period.
 - In accordance with Condition L3.2, where meteorological conditions exceed those specified in Condition L3.2, the EPL limits for these periods are those listed in Condition L3.1 plus 5 dB.
 - A 1 to 2 dB exceedance is considered by the EPA as negligible in accordance with Section 4.2 of the NPfl (EPA 2017).

5 Summary

EMM was engaged by KLF Holdings Pty Ltd to conduct a quarterly noise survey of operations at their Camelia site. The survey purpose was to quantify the acoustic environment and compare site noise levels against specified EPL limits.

Attended environmental noise monitoring described in this report was done during the day/evening/night period(s) of 21 and 22 March 2024 at three monitoring locations.

Attended noise monitoring observations and results demonstrate that operational noise from the site was audible during most attended measurements.

Site contributions were demonstrated to be compliant during 23 of the 24 samples captured at residences. A 1 dB exceedance of an EPL L_{Aeq} criterion was measured during one measurement. With all feasible and reasonable measures adopted, a 1 to 2 dB exceedance is considered by the EPA as negligible in accordance with Section 4.2 of the NPfl (EPA 2017).

Maximum L_{Amax} noise events measured from the site were compliant with the EPL L_{Amax} noise limits at all samples captured at residences.

Appendix A

Noise perception and examples

A.1 Noise levels

Table A.1 gives an indication as to how an average person perceives changes in noise level. Examples of common noise levels are provided in Figure A.1.

Table A.1 Perceived change in noise

Change in sound pressure level (dB)	Perceived change in noise
up to 2	Not perceptible
3	Just perceptible
5	Noticeable difference
10	Twice (or half) as loud
15	Large change
20	Four times (or quarter) as loud

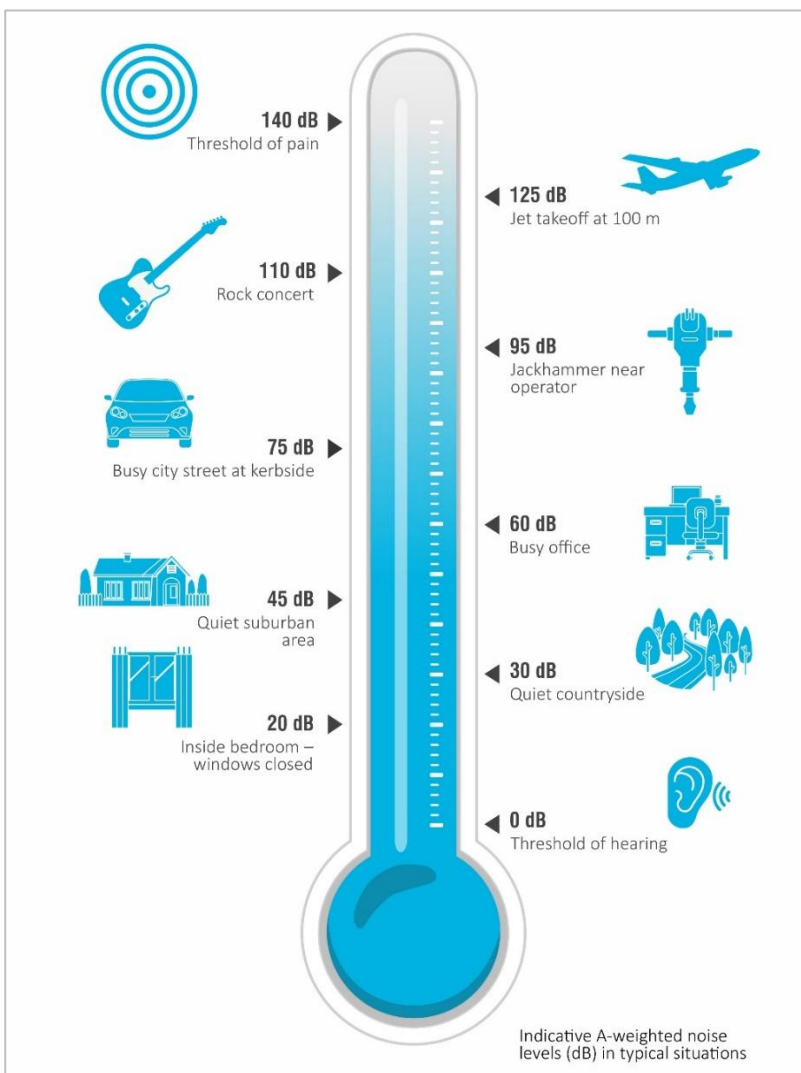


Figure A.1 Common noise levels

Appendix B

Regulator documents



Environment Protection Licence

Licence - 12700

	<p>the exception of the maximum threshold values for contaminants specified in the 'Other Limits' column</p>	<p>Petroleum Hydrocarbons C6-C9 150mg/kg; Petroleum Hydrocarbons C10-C36 1600mg/kg; Polycyclic aromatic hydrocarbons 80mg/kg; Polychlorinated biphenyls (individual) 1mg/kg. No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises. Soil thresholds will be subject to review from time to time.</p>
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- L2.2 The height of any stockpile of waste or any processed substance must not exceed four (4) metres.
- L2.3 The licensee must install and maintain a visible permanent stockpile marker that shows the permitted height of stockpiles, being four metres.
- L2.4 The authorised amount of waste permitted on the premises cannot exceed 6,500 tonnes at any one time.
- L2.5 Any waste that is not listed in table L2.1, including asbestos waste, that is found after receipt at the premises must be:
 - (a) stored in an isolated and appropriately sign-posted area;
 - (b) removed from the premises within one business day of receipt of the non-conforming waste to a place that can lawfully accept that type of waste; and
 - (c) details (date, amount, type of waste, disposal location, disposal dated) must be logged in a register that is kept at the premises.

L3 Noise limits

L3.1 Noise generated at the premises must not exceed the noise limits (in dB(A)) at the times and locations in table below.

Location	Day	Evening	Night	Night
-	LAeq(15 minute)	LAeq(15 minute)	LAeq(15 minute)	LAFmax
523-530 John Street Rydalmere	50	48	43	59

Environment Protection Licence

Licence - 12700

28 & 30 Sylvia Street Rydalmere, 33 Nowill Street Rydalmere	50	48	43	59
37-45 John Street Rydalmere	50	48	43	59
22 & 24 Milton Street Rydalmere, 33 & 35 John Street Rydalmere	50	48	43	59

L3.2 Noise-enhancing meteorological conditions

- a) The noise limits set out in condition L3.1 apply under the meteorological conditions listed in table below.
- b) For those meteorological conditions not referred to in condition L3.2(a) table, the noise limits that apply are the noise limits in condition L3.1 table plus 5dB.

Assessment Period	Meteorological Conditions
Day	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level
Evening	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level
Night	Stability Categories A, B, C and D with wind speeds up to and including 3m/s at 10m above ground level; or Stability category E and F with wind speeds up to and including 2m/s at 10m above ground level.

L3.3 For the purpose of condition L3.1;

- a) Day means the period from 7am to 6pm Monday to Saturday and the period from 8am to 6pm Sunday and public holidays.
- b) Evening means the period from 6pm to 10pm.
- c) Night means the period from 10pm to 7am Monday to Saturday and the period from 10pm to 8am Sunday and public holidays.

L3.4 For the purposes of condition L3.2:

- a) The meteorological conditions are to be determined from meteorological data obtained from the meteorological weather station identified as Bureau of Meteorology AWS at Sydney Olympic Park, NSW (Station no 066212).
- b) Stability category shall be determined using the following method from Fact Sheet D of the *Noise Policy for Industry* (NSW EPA, 2017):
 - i. Use of sigma-theta data (section D1.4).

L3.5 Noise measurements must not be undertaken where rain or wind speed at microphone level will affect the acquisition of valid measurements.

L3.6 To assess compliance:

Environment Protection Licence

Licence - 12700

a) with the LAeq(15mins) and LAm_{ax} noise limits in condition L3.1 and L3.2, the noise measurement equipment must be located:

(i) approximately on the property boundary, where any residence is situated 30 metres or less from the property boundary closest to the premises; or where applicable,

(ii) in an area within 30 metres of a residence façade, but not closer than 3 metres where any residence on the property is situated more than 30 meters from the property boundary closest to the premises; or, where applicable,

(iii) in an area within 50 metres of the boundary of a National park or a Nature Reserve,

(iv) at any other location identified in condition L3.1.

b) with the LAeq(15 minutes) or the LAm_{ax} noise limits in condition L3.1 and L3.3, the noise measurement equipment must be located:

(i) at the reasonably most affected point at a location where there is no residence at the location; or,

(ii) at the reasonably most affected point within an area at a location prescribed by condition L3.5(a).

L3.7 A non-compliance of conditions L3.1 and L3.2 will still occur where noise generated from the premises is measured in excess of the noise limit at a point other than the reasonably most affected point at the receiver locations referred to in conditions L3.6(a) or L3.6(b).

NOTE to Conditions L3.6 and L3.7. The reasonably most affected point is a point at a receiver location or within an area at a receiver location experiencing or expected to experience the highest sound pressure level from the premises.

L3.8 For the purposes of determining the noise generated from the premises, the modifying factor corrections in Table C1 in Fact Sheet C of the *Noise Policy for Industry* (NSW EPA, 2017) may be applied, if appropriate, to the noise measurements by the noise monitoring equipment.

Note: **Definition of Terms for noise limits**

- Noise Policy for Industry - the document entitled "*Noise Policy for Industry*" published by the NSW Environment Protection Authority in October 2017.

- Noise – 'sound pressure levels' for the purposes of conditions L3.1 to L3.8.

- LAeq (15 minute) - the value of the A-weighted sound pressure level of a continuous steady sound that, over a 15 minute time interval, has the same mean square sound pressure level as a sound under consideration with a level that varies with time (Australian Standard AS 1055:2018 *Acoustics: description and measurement of environmental noise*).

- LAF_{max} – the maximum sound pressure level of an event measured with a sound level meter satisfying Australian Standard AS IEC 61672.1-2013 *Electroacoustics - Sound level meters - Part 1: Specifications* set to 'A' frequency weighting and fast time weighting.

L4 Hours of operation

L4.1 The hours of operation of the use of the premises is permitted 24 hours per day, Monday to Sunday, except those activities restricted by conditions L4.2 to L4.8.

L4.2 **Truck Movement**

Between 10pm to 7am: A maximum of 8 truck movements per hour are permitted to deposit waste material on the premises.

Appendix C

Calibration certificates



Sound Level Meter

IEC 61672-3:2013

Calibration Certificate

Calibration Number C23471

Client Details	EMM Consulting Ground Floor Suite 01, 20 Chandos Street
-----------------------	---

Equipment Tested/ Model Number :	Type 2250
Instrument Serial Number :	3008201
Microphone Serial Number :	2888134
Pre-amplifier Serial Number :	16037
Firmware Version :	N/A

Pre-Test Atmospheric Conditions	Post-Test Atmospheric Conditions
Ambient Temperature : 23.1 °C	Ambient Temperature : 24.3 °C
Relative Humidity : 44 %	Relative Humidity : 44.1 %
Barometric Pressure : 101.6 kPa	Barometric Pressure : 101.3 kPa

Calibration Technician : Max Moore	Secondary Check: Rhys Gravelle
Calibration Date : 12 Jul 2023	Report Issue Date : 17 Jul 2023

Approved Signatory : 

Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	N/A
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation test performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2013.

Uncertainties of Measurement -			
Acoustic Tests		Environmental Conditions	
125Hz	±0.13 dB	Temperature	±0.1 °C
1kHz	±0.13 dB	Relative Humidity	±1.9 %
8kHz	±0.14 dB	Barometric Pressure	±0.014 kPa
Electrical Tests	±0.13 dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.



This calibration certificate is to be read in conjunction with the calibration test report.

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172.
Accredited for compliance with ISO/IEC 17025 - Calibration.

The results of the tests, calibrations and/or measurements included in this document are traceable to SI units.

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.



Sound Level Meter IEC 61672-3:2013 Calibration Test Report

Calibration Number C23471

Client Details	EMM Consulting Ground Floor Suite 01, 20 Chandos Street
-----------------------	---

Equipment Tested/ Model Number :	Type 2250
Instrument Serial Number :	3008201
Microphone Serial Number :	2888134
Pre-amplifier Serial Number :	16037
Firmware Version :	N/A

Pre-Test Atmospheric Conditions	Post-Test Atmospheric Conditions
Ambient Temperature : 23.1 °C	Ambient Temperature : 24.3 °C
Relative Humidity : 44 %	Relative Humidity : 44.1 %
Barometric Pressure : 101.6 kPa	Barometric Pressure : 101.3 kPa

Calibration Technician : Max Moore	Secondary Check: Rhys Gravelle
Calibration Date : 12 Jul 2023	Report Issue Date : 17 Jul 2023

Approved Signatory :

Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	N/A
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation test performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2013.

Uncertainties of Measurement -			
Acoustic Tests		Environmental Conditions	
125Hz	±0.13 dB	Temperature	±0.1 °C
1kHz	±0.13 dB	Relative Humidity	±1.9 %
8kHz	±0.14 dB	Barometric Pressure	±0.014 kPa
Electrical Tests	±0.13 dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.



This report applies only to the item tested and shall only be reproduced in full, unless approved in writing by Acoustic Research Labs.

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CERTIFICATE OF CALIBRATION

CERTIFICATE No: **C36957**

EQUIPMENT TESTED : Sound Level Calibrator

Manufacturer: Svantek
Type No: SV36 **Serial No:** 138019
Owner: EMM Consulting
Suite 01, 20 Chandos St
St Leonards NSW 2065

Tests Performed: Measured Output Pressure level, Frequency & Distortion
Comments: See Details overleaf. All Test Passed.

Parameter	Pre-Adj	Adj Y/N	Output: (dB re 20 µPa)	Frequency (Hz)	THD&N (%)
Level1:	NA	N	93.94 dB	999.97 Hz	0.63 %
Level2:	NA	N	113.97 dB	999.97 Hz	0.40 %
Uncertainty			±0.11 dB	±0.05%	±0.20 %
Uncertainty (at 95% c.l.) k=2					

CONDITION OF TEST:

Ambient Pressure 1012 hPa ±1 hPa **Date of Receipt :** 28/07/2023
Temperature 23 °C ±1° C **Date of Calibration :** 01/08/2023
Relative Humidity 40 % ±5% **Date of Issue :** 01/08/2023

Acu-Vib Test Procedure: AVP02 (Calibrators)
Test Method: AS IEC 60942 - 2017

CHECKED BY:

AUTHORISED SIGNATURE:

Hein See

Accredited for compliance with ISO/IEC 17025 - Calibration
Results of the tests, calibration and/or measurements included in this document are traceable to SI units through reference equipment that has been calibrated by the Australian National Measurement Institute or other NATA accredited laboratories demonstrating traceability.

This report applies only to the item identified in the report and may not be reproduced in part.

The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.



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Acoustic and Vibration
Measurements

Acu-Vib Electronics
CALIBRATIONS SALES RENTALS REPAIRS

Head Office & Calibration Laboratory
Unit 14, 22 Hudson Ave. Castle Hill NSW 2154
(02) 9680 8133
www.acu-vib.com.au

Appendix D

BOM Sydney Olympic Park weather station data

hd	Station Number	Year Month Day Hour Minutes in YYYY	MM	DD	HH24	MI format in Local time	Total precipitation in last 30 minutes in mm where observations count >= 12	Quality Total precipitation in last 30 minutes	Count of total precipitation observations in last 30 minutes	Average wind speed in last 30 minutes in km/h where observations count >= 12	Quality of average wind speed in last 30 minutes	Count of average wind speed observations in last 30 minutes	Lowest wind speed in last 30 minutes in km/h where observations count >= 12	Quality of lowest wind speed in last 30 minutes	Count of lowest wind speed observations in last 30 minutes	Highest maximum 3 sec wind gust in last 30 minutes in km/h where observations count >= 12	Quality of Highest maximum 3 sec wind gust in last 30 minutes	Count of Highest maximum 3 sec wind gust observations in last 30 minutes	Standard deviation of wind in last 30 minutes where observations count >= 12	Quality of standard deviation of wind in last 30 minutes	Count of standard deviation of wind observations in last 30 minutes	Average direction of wind in degrees true where observations count >= 12	Quality of average direction of wind in last 30 minutes	Count of average direction of wind observations in last 30 minutes
hd	66212	2024	3	21	5	0	0	Y	30	7.3	Y	30	1.8	Y	30	13	Y	30	28	Y	30	220	Y	30
hd	66212	2024	3	21	5	30	0	Y	30	4.7	Y	30	0	Y	30	9.4	Y	30	20	Y	30	241	Y	30
hd	66212	2024	3	21	6	0	0	Y	30	4.1	Y	30	0	Y	30	9.4	Y	30	12	Y	30	261	Y	30
hd	66212	2024	3	21	6	30	0	Y	30	5.6	Y	30	3.6	Y	30	9.4	Y	30	7	Y	30	267	Y	30
hd	66212	2024	3	21	7	0	0	Y	30	6.1	Y	30	3.6	Y	30	11.2	Y	30	10	Y	30	261	Y	30
hd	66212	2024	3	21	7	30	0	Y	30	7.1	Y	30	3.6	Y	30	11.2	Y	30	16	Y	30	257	Y	30
hd	66212	2024	3	21	8	0	0	Y	30	8	Y	30	5.4	Y	30	13	Y	30	22	Y	30	250	Y	30
hd	66212	2024	3	21	8	30	0	Y	30	8.1	Y	30	1.8	Y	30	14.8	Y	30	29	Y	30	232	Y	30
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hd	66212	2024	3	21	10	30	0	Y	30	11.2	Y	30	5.4	Y	30	24.1	Y	30	38	Y	30	151	Y	30
hd	66212	2024	3	21	11	0	0	Y	30	16	Y	30	7.6	Y	30	25.9	Y	30	22	Y	30	141	Y	30
hd	66212	2024	3	21	11	30	0	Y	30	14.7	Y	30	9.4	Y	30	27.7	Y	30	36	Y	30	113	Y	30
hd	66212	2024	3	21	12	0	0.2	Y	30	16.2	Y	30	7.6	Y	30	33.5	Y	30	23	Y	30	93	Y	30
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hd	66212	2024	3	21	16	30	0	Y	30	18.3	Y	30	9.4	Y	30	33.5	Y	30	21	Y	30	99	Y	30
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hd	66212	2024	3	21	19	30	0	Y	30	7	Y	30	1.8	Y	30	11.2	Y	30	28	Y	30	138	Y	30
hd	66212	2024	3	21	20	0	0	Y	30	5	Y	30	0	Y	30	9.4	Y	30	12	Y	30	165	Y	30
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hd	66212	2024	3	22	5	30	0	Y	30	5.7	Y	30	1.8	Y	30	7.6	Y	30	12	Y	30	263	Y	30
hd	66212	2024	3	22	6	0	0	Y	30	5.2	Y	30	0	Y	30	9.4	Y	30	14	Y	30	261	Y	30
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hd	66212	2024	3	22	9	30	0	Y	30	8	Y	30	1.8	Y	30	13	Y	30	17	Y	30	259	Y	30
hd	66212	2024	3	22	10	0	0	Y	30	8.3	Y	30	5.4	Y	30	13	Y	30	16	Y	30	272	Y	30
hd	66212	2024	3	22	10	30	0	Y	30	7.7	Y	30	3.6	Y	30	13	Y	30	18	Y	30	274	Y	30
hd	66212	2024	3	22	11	0	0	Y	30	6.8	Y	30	1.8	Y	30	11.2	Y	30	44	Y	30	221	Y	30
hd	66212	2024	3	22	11	30	0	Y	30	8.4	Y	30	0	Y	30	14.8	Y	30	43	Y	30	198	Y	30
hd	66212	2024	3	22	12	0	0	Y	30	5.8	Y	30	0	Y	30	11.2	Y	30	55	Y	30	229	Y	30
hd	66212	2024	3	22	12	30	0	Y	30	5.7	Y	30	0	Y	30	11.2	Y	30	73	Y	30	120	Y	30
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hd	66212	2024	3	22	13	30	0	Y	30	6.3	Y	30	0	Y	30	11.2	Y	30	48	Y	30	26	Y	30
hd	66212	2024	3	22	14	0	0	Y	30	7.8	Y	30	0	Y	30	16.6	Y	30	47	Y	30	6	Y	30

hd	Station Number	Year Month Day Hour Minutes in YYYY MM DD HH24	MI format in Local time	Total precipitation in last 30 minutes in mm where observations count >= 12	Quality Total precipitation in last 30 minutes	Count of total precipitation observations in last 30 minutes	Average wind speed in last 30 minutes in km/h where observations count >= 12	Quality of average wind speed in last 30 minutes	Count of average wind speed observations in last 30 minutes	Lowest wind speed in last 30 minutes in km/h where observations count >= 12	Quality of lowest wind speed in last 30 minutes	Count of lowest wind speed observations in last 30 minutes	Highest maximum 3 sec wind gust in last 30 minutes in km/h where observations count >= 12	Quality of Highest maximum 3 sec wind gust in last 30 minutes	Count of Highest maximum 3 sec wind gust observations in last 30 minutes	Standard deviation of wind in last 30 minutes where observations count >= 12	Quality of standard deviation of wind in last 30 minutes	Count of standard deviation of wind observations in last 30 minutes	Average direction of wind in last 30 minutes in degrees true where observations count >= 12	Quality of average direction of wind in last 30 minutes	Count of average direction of wind observations in last 30 minutes			
hd	66212	2024	3	22	14	30	0	Y	30	9.4	Y	30	5.4	Y	30	18.4	Y	30	69	Y	30	340	Y	30
hd	66212	2024	3	22	15	0	0	Y	30	7.4	Y	30	5.4	Y	30	11.2	Y	30	45	Y	30	56	Y	30
hd	66212	2024	3	22	15	30	0	Y	30	10.8	Y	30	5.4	Y	30	20.5	Y	30	32	Y	30	55	Y	30
hd	66212	2024	3	22	16	0	0	Y	30	10.9	Y	30	5.4	Y	30	20.5	Y	30	35	Y	30	26	Y	30
hd	66212	2024	3	22	16	30	0	Y	30	9.9	Y	30	5.4	Y	30	16.6	Y	30	40	Y	30	6	Y	30
hd	66212	2024	3	22	17	0	0	Y	30	8.2	Y	30	3.6	Y	30	16.6	Y	30	34	Y	30	343	Y	30
hd	66212	2024	3	22	17	30	0	Y	30	8.2	Y	30	3.6	Y	30	16.6	Y	30	42	Y	30	12	Y	30
hd	66212	2024	3	22	18	0	0	Y	30	10.2	Y	30	5.4	Y	30	16.6	Y	30	33	Y	30	35	Y	30
hd	66212	2024	3	22	18	30	0	Y	30	9.6	Y	30	5.4	Y	30	20.5	Y	30	34	Y	30	10	Y	30
hd	66212	2024	3	22	19	0	0	Y	30	10.3	Y	30	5.4	Y	30	24.1	Y	30	39	Y	30	11	Y	30
hd	66212	2024	3	22	19	30	0	Y	30	9.8	Y	30	5.4	Y	30	22.3	Y	30	30	Y	30	6	Y	30
hd	66212	2024	3	22	20	0	0	Y	30	6.8	Y	30	1.8	Y	30	13	Y	30	38	Y	30	360	Y	30
hd	66212	2024	3	22	20	30	0	Y	30	6.4	Y	30	0	Y	30	13	Y	30	41	Y	30	16	Y	30
hd	66212	2024	3	22	21	0	0	Y	30	7.1	Y	30	3.6	Y	30	20.5	Y	30	39	Y	30	25	Y	30
hd	66212	2024	3	22	21	30	0	Y	30	3.5	Y	30	0	Y	30	11.2	Y	30	29	Y	30	34	Y	30
hd	66212	2024	3	22	22	0	0	Y	30	4.4	Y	30	0	Y	30	11.2	Y	30	43	Y	30	348	Y	30
hd	66212	2024	3	22	22	30	0	Y	30	1.5	Y	30	0	Y	30	9.4	Y	30	74	Y	30	210	Y	30
hd	66212	2024	3	22	23	0	0	Y	30	3	Y	30	0	Y	30	9.4	Y	30	57	Y	30	14	Y	30
hd	66212	2024	3	22	23	30	0	Y	30	0	Y	30	0	Y	30	1	Y	30	30	Y	30	0	Y	30

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