Annual Truck Noise Measurements

Clyde Transfer Terminal

September 2024

Quality Information

Completed by:	 Nicole Boukarim *Environmental Compliance Advisor - NSW/ACT*
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Address	Veolia Australia & New Zealand Clyde Transfer Terminal: 319 Great Western Hwy, Auburn NSW 2144
Date	September 2024
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Status:	**FINAL (V1)**

Rev No.	Details	Issued to	Date
0	Draft	Veolia (internal QA)	October 2024
1	Final	Veolia (internal QA)	November 2024

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Contents

Quality Information **3**
Contents 5
List of Figures 5
List of Tables 5
Introduction **5**
Noise Limit Criteria **6**
Table 1: LAmax Noise Limits (dBA) – ADR 28/01 6
Measurement Methodology **7**
Noise Measurement Results **8**
Discussion **9**
Table 2: Highest NC Hight-class vehicle noise measurements 9
Table 3: NB class vehicle noise measurements 10
Conclusions **12**
References **12**
Appendices **12**
Appendix A - Truck Noise Monitoring Location 12
Appendix B - Sound Level Meter Calibration Certificate 12
Appendix C - Weighbridge Record 13
Appendix D - Truck Noise Measurement Results 13

List of Figures

Figure 1: Noise level distribution from Truck Noise Monitoring – 7 September 2023 9

List of Tables

Table 1: LAmax Noise Limits (dBA) – ADR 28/01 **7**
Table 2: NB class vehicle noise measurements **11**

Introduction

The Clyde Transfer Terminal was issued with Conditions of Development Consent (Conditions) by the Department of Planning, Housing and Infrastructure (The Department) formerly known as the Department of Planning, which are attached to the Development Consent. The Conditions include a requirement to assess heavy vehicle noise limits specified in Australian Design Rule 28/01 (ADR 28/01).

The requirements of Condition 112 are as follows:

The Applicant shall implement a Heavy Vehicle Noise Monitoring Management Program for the development to the satisfaction of the Director-General. This program must:

(a) monitor heavy vehicle noise on site, in accordance with the methods outlined in the "Truck Noise Monitoring – Proposed Test and Management Plan" prepared by Heggies and dated 26 May 2008;

(b) be undertaken quarterly for a year starting in October 2008, and annually thereafter, unless otherwise agreed by the Director-General;

(c) measure at least 25% of the heavy vehicles visiting the site;

(d) identify heavy vehicles exceeding the relevant noise criteria specified in the Australian Design Rule 28/01, or its successor, and ensure that the owners of these subsequently comply with the relevant noise criteria;

(e) report the number of non-compliant heavy vehicles identified and the actions undertaken to address these non-compliances in the Annual Environmental Monitoring Report; and

(f) be amended, should the monitoring activities not achieve the aim of the program to the satisfaction of the Director-General.

This Annual Truck Noise Measurements report (this Report) presents the results of the nineteenth round of heavy vehicle noise monitoring at the Terminal. Monitoring was completed by Veolia on the 23rd of September 2024 between 7:00 AM and 10:30 AM, in accordance with the Proposed Test Management Plan (PTMP) developed by Heggies. This is the nineteenth sampling event and report prepared by Veolia under Condition 112 since assuming the responsibility of monitoring from Heggies.

Noise Limit Criteria

The noise limit criteria for maximum allowable noise levels for Goods Vehicles described in the PTMP (2008) are provided in Table 1 below.

Table 1: LAmax Noise Limits (dBA) – ADR 28/01

Vehicle Category Code	Vehicle Type	Vehicles In Motion	Stationary Vehicles			
		Direct Injection & Spark Ignition Diesel Engines	Spark Ignition Engines Exhaust Outlet Height		Direct Injection Engines Exhaust Outlet Height	
			<1500mm	≤1500mm	<1500mm	≤1500mm
NA	**Light Goods Vehicles GVM ≤3.5t on road use**	78 to 80	89	85	99	95
NB	**Medium Goods Vehicles GVM >3.5t ≤12t on road use**	81 to 84	95	91	101	97
NC	**Heavy Goods Vehicles GVM >12t on road use**	81 to 87	95	91	103	99

Note: For vehicles in motion test, LAmax noise limits are based on the Gross Vehicle Mass (GVM) and the Nett Engine Power (NEP). The noise limits in the table are expressed as a range where the lower noise level refers to the minimum GVM and NEP in each category and the upper noise level refers to the maximum GVM and NEP in each category.

Waste collection trucks entering the Terminal are loaded vehicles with a Gross Vehicle Mass (GVM) over 12 tonnes, based on tare weights of incoming vehicles on the site weighbridge. Hence, for the purpose of conducting a vehicle noise assessment at the Terminal, Vehicle Category Code “NC”, for heavy goods vehicles with a GVM of 12 tonnes or more on the road, a Net Engine Power (NEP) of greater than 150 kilowatts (kW) has been applied. The upper limit (87dBA) of the NC range provided in Table 1 will be used to assess truck noise measurements. This is consistent with the assessment criteria applied by Heggies in previous monitoring rounds.

Measurement Methodology

The monitoring location from which the truck noise was measured was consistent with previous monitoring rounds conducted by Veolia and Heggies. Measurements were taken at a distance of approximately 7.5 metres from the centre of the vehicle travel path and a height of 1.2 metres above the vehicle entrance ramp from the weighbridge to the Terminal building, which was the test site surface. Trucks accelerating at this location, which is shown in **Appendix A**, were measured where the vehicle was accelerating in line with the microphone of the sound level meter. For further information regarding measurement location and methodology refer to the PTMP prepared by Heggies (Heggies, 2008).

Measurements were taken with a Casella Sound Level Meter, using an A-weighted (LA) filter network and fast response time constant as required under ADR 28/01. The (LA) filter ensured that the sound level meter was less sensitive to very high and very low frequencies which would be outside the range of noise emitted by the heavy vehicles entering and exiting the Terminal, while the fast response time constant enabled a more accurate reading of noise from each vehicle movement. Calibration of the Sound Level Meter was completed by Thermo Fisher Scientific prior to monitoring. Refer to **Appendix B** for calibration certificate.

For each truck movement a LA maximum noise level measurement was recorded. Additional information on each truck movement was noted (where possible) to assist in identification of any trucks which exceeded the noise criteria, including:

- Company;
- Vehicle Make and Type;
- Registration; and
- Exhaust Location.

The collected data was cross referenced with the Terminal's weighbridge records for vehicles entering the facility on 23 September 2024, a copy of which is provided in **Appendix C**, to identify trucks measured during this sampling period and to calculate the percentage of trucks sampled.

Noise Measurement Results

A total of 121 truck movements were recorded entering the Terminal and a measurement for each vehicle movement past the monitoring location was taken as the trucks accelerated on the entrance ramp. Forty-one (41) of these measurements were under impeded traffic conditions causing distorted noise emissions, caused by queuing of waste trucks waiting to enter the Terminal building during busy periods or idling of engines past the testing zone. Impeded traffic conditions affected the representative quality of the noise measurements. The measured sound levels of each pass-by event were recorded on field sheets, which have been tabulated in **Appendix D**.

A total measurement of ~34.2% of all truck movements (354 total) was achieved during this monitoring round, which satisfies the minimum requirements of Condition 112 (25% of daily truck movements). **Figure 1** presents the distribution of recorded sound level frequencies which were measured in A-weighted decibels (dBA).

Measurements of ‘normal’ truck acceleration ranged from 63.4dBA to 86.0dBA with the highest frequency occurring between 69 - 78dBA, which is an improvement (lower range) from the previous year. Impaired acceleration readings due to the impeded traffic conditions ranged from 66dBA to 80dBA, with the highest frequency occurring between 69-75dBA. Impaired acceleration readings were plotted separately from the normal accelerating vehicles on Figure 1 below.

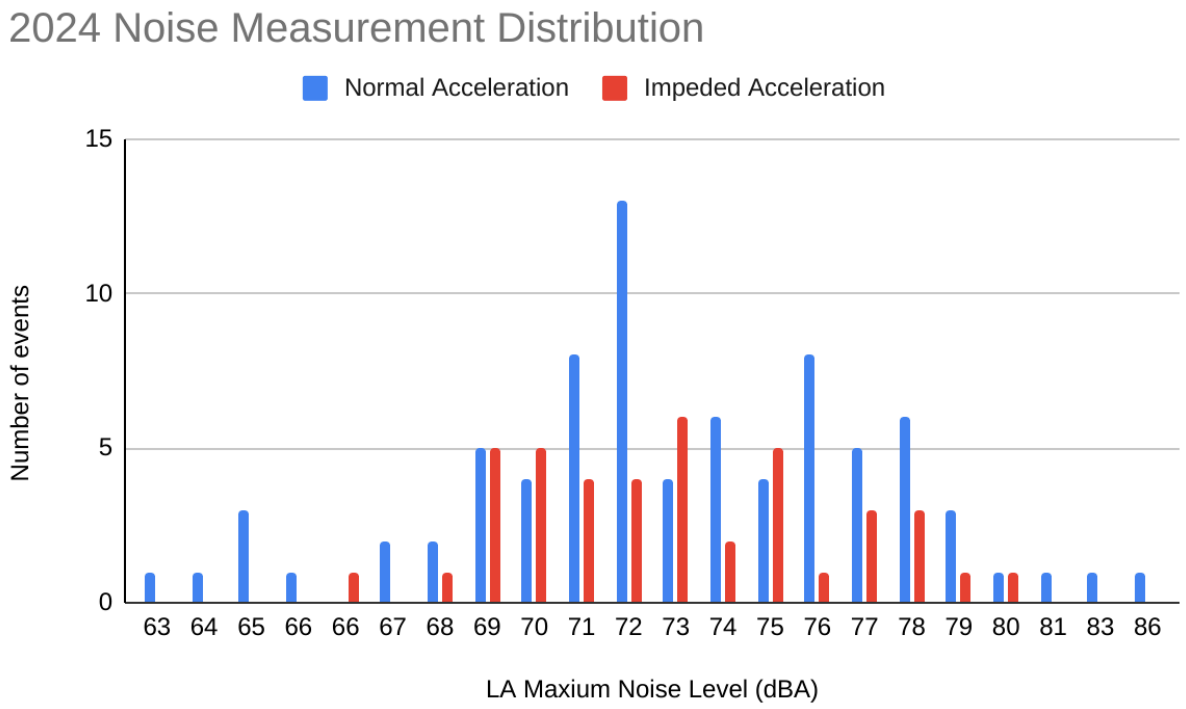


Figure 1: Noise level distribution from Truck Noise Monitoring – 23rd September 2024

Discussion

Comparison of the heavy vehicle noise measurement results against the limits specified in ADR 28/01 (refer to Table 1) indicates that all 120 heavy vehicle trucks entering the Terminal in this monitoring round were within the acceptable noise criteria for the NC category vehicles.

There were no exceedances to the 87 dBA upper noise limit. The highest noise reading detected was 86.0 dBA, by one vehicle.

One (1) smaller waste vehicle (ranging from approximately 6 – 11 tonnes when loaded) was observed entering the facility during this monitoring event. For the purpose of this assessment it is considered that these vehicles would fall within the NB category with a noise limit of 84dBA. All noise emitted from vehicles assigned to this category was measured below this threshold as indicated in **Table 2.** There were no exceedances to the 84 dBA noise limit.

Table 2. NB class vehicle noise measurements

Time	Company	Make	Registration	L_A Max (dBA)	Impeded Movement
10:08	Ku-ring-gai Council	HINO	XO44SM	67.4	N

Noise from the Terminal's operations such as plant noise (forklift, compactor, front end loader and road sweeper) and surrounding areas (Parramatta Road, train tracks) were not significant enough to influence waste truck noise measurements at this location. The noise wall located adjacent to the exit ramp, on the North-western boundary of the Terminal, also assisted in focusing noise measurements on truck movements into the facility by limiting interference noise sources.

No noise complaints pertaining to the Terminal's operations were received in the year between the previous annual truck noise monitoring round. This is consistent with previous years of no noise complaints received at the site and demonstrates that noise impacts from waste truck movements at the Terminal boundary are contained within the Terminal and remain below surrounding area background noise levels.

Conclusions

Truck noise monitoring was conducted on the 23rd of September 2024 between 7:00 AM and 10:30 AM. The results indicated:

- Noise from 121 truck movements was measured;
- A total of 34.2% of truck movements were measured, which satisfies the minimum 25% requirement of Condition 112;
- All measured trucks were identified against weighbridge records to verify the accuracy of field data for reporting.

● All truck movements were below the 87dBA upper limit of ADR 28/01, with the maximum recorded measurement of 86.0dBA by one vehicle. All other truck noise measurements were well below the noise criteria of ADR 28/01 and hence did not exceed the trigger limits.
● Noise from the Terminal's operations was not significant enough to influence the truck noise assessment.
● No noise complaints pertaining to the Terminal's operations have been received since the previous truck noise monitoring round, which is consistent with previous years.
● Overall, truck noise impacts at the Terminal boundary are considered to be minimal, and remain below surrounding area background noise levels.

References

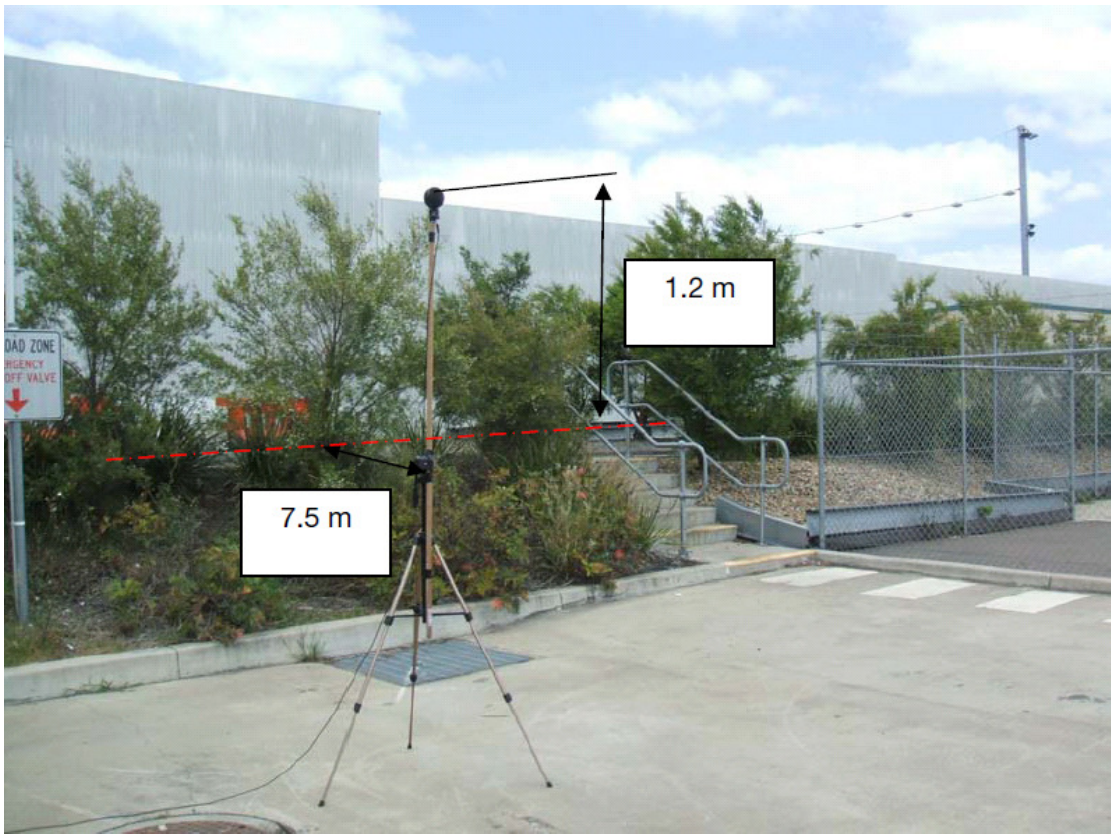
● ADR 28/01 Vehicle Standard Australian Design Rule 28/01 – External Noise of Motor Vehicles), 2006. Federal Register of Legislative Instruments F2006L01279. Australian Government.

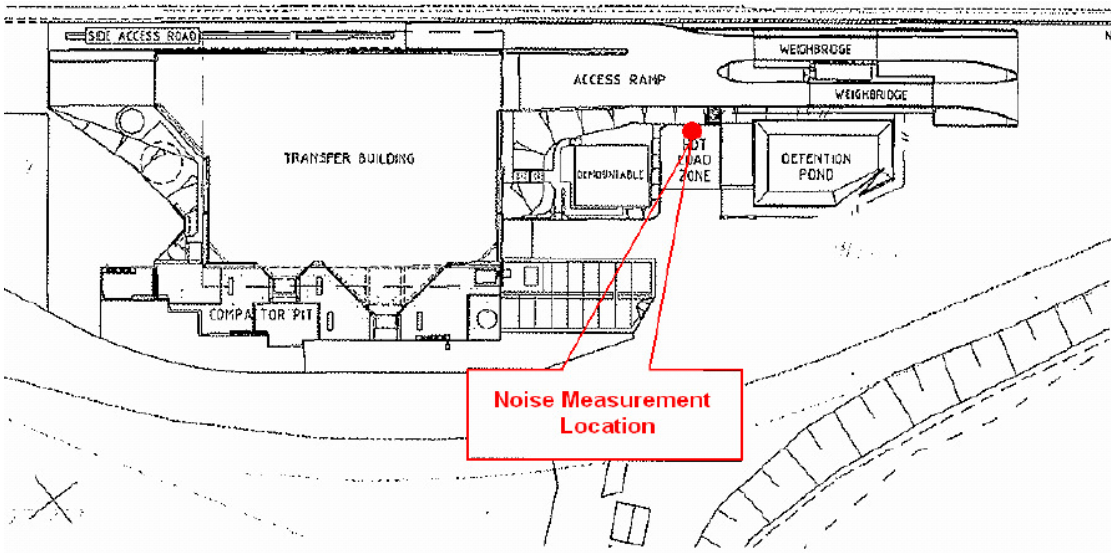
● PTMP (2008) Clyde Waste Transfer Facility – Truck Noise Monitoring Proposed Test and Management Plan, 2008. Heggies Pty Ltd.

Appendices

Appendix A - Truck Noise Monitoring Location

Truck Noise Monitoring Location





Appendix B - Sound Level Meter Calibration Certificate

AirMet Scientific P/L
36 Punch Street
Artarmon
NSW 2064, Australia
Tel: 02 8425 8300
Fax: 02 8425 8399

Calibration Certificate

This document certifies that the instrument detailed has been calibrated to the parameters

Certificate Print Date: 16-Sep-2024
Calibration Date: 16-Sep-2024
Next Calibration Due: 16-Sep-2025

Call ID / Order No: 272225
Job No / Pack No: S2722250002

Customer: Veolia Environmental Services (Aust) Pty Ltd-ID 202853 **Serial No:** 4020606
Description: [CMLCEL-120/2] Acoustic calibrator for class

Calibration Summary

Frequency: Yearly **Temp:** 22°C **As Found:** Out of Tolerance **Result:** Pass
Humidity: 45% **Certificate:** S2722250002

Desc	As Found		As Left (Cal Status)	
	Actual	Result	Actual	Result
114 dB @ 1kHz	113.8	Fail	114.0	Pass

Standard Used

Equip ID	Description	Valid Until	Cert
00570403	RION NA-28	21/05/2025	SLM39853

Completed By: Micael Rebelo **Signed:**

AirMet Scientific P/L
36 Punch Street
Artarmon
NSW 2064, Australia
Tel: 02 8425 8300
Fax: 02 8425 8399

Calibration Certificate

This document certifies that the instrument detailed has been calibrated to the parameters

Certificate Print Date: 17-Sep-2024
Calibration Date: 16-Sep-2024
Next Calibration Due: 16-Sep-2025

Call ID / Order No: 272225
Job No / Pack No: S2722250001

Customer: Veolia Environmental Services (Aust) Pty Ltd-ID 202853 **Serial No:** 2425321
Description: Casella CEL 63X Sound Level Meters

Calibration Summary

Frequency: Yearly **Temp:** 22°C **As Found:** Out of Tolerance **Result:** Pass
Humidity: 45% **Certificate:** S2722250001

Desc	As Found		As Left (Cal Status)	
	Actual	Result	Actual	Result
114dB	113.3	Fail	114.0	Pass

Standard Used

Equip ID	Description	Valid Until	Cert
900804	QC-10 Calibrator	18/01/2025	ACU-VIB C33905

Completed By: Micael Rebelo **Signed:**

Appendix D - Truck Noise Measurement Results

Clyde Transfer Terminal Annual Truck Noise Monitoring									
Time In	Vehicle Company Name	Rego No	Vehicle Make	Lift Type	LA Max (dBA)	cle Exhaust Loc	eded Acceleration (Y	Comment	Exceedances
7:08	Aussie Skips (NSW) Pty Ltd	OZI020		-	63.4	Right (bottom)	N		No exceedance
7:11	URM Environmental Services Pty Limi	7URM		-	74.0	Right (top)	N		No exceedance
7:11	Cumberland Council - Auburn	CK41CQ	ISUZU	-	69.1	-	N		No exceedance
7:12	Hornsby Council	XO26AN		-	65.4	-	N		No exceedance
7:12	Cumberland Council - Auburn	URM839	IVECO	-	78.2	-	N		No exceedance
7:12	Wastefree (Aust) Pty Ltd	XO58QY		-	65.2	-	N		No exceedance
7:13	Inner West Council - Marrickville	XO07JR	ISUZU	-	65.0	-	N		No exceedance
7:18	Inner West Council Leichhardt	XO55IN	HINO	Rearlift	80.5	-	N		No exceedance
7:20	Strathfield Municipal Council	CL51CZ	HINO	Rearlift	68.8	Right (bottom)	N		No exceedance
7:21	Cumberland Council - Auburn	URM842		Frontlift	77.3	-	N		No exceedance
7:25	Enfield Bulk	XO86QG		Frontlift	71.9	-	N		No exceedance
7:27	Hunter's Hill Council	XO69MZ	DENNIS	Frontlift	75.5	-	N		No exceedance
7:28	Canterbury-Bankstown Council	XN54WO		-	71.3	-	N		No exceedance
7:29	Cumberland Council - Auburn	URM213		Frontlift	86.0	-	N		No exceedance
7:29	Sydney Water - Sewer Silt	XP90BG	DAR		72.2	-	N		No exceedance
7:30	SUEZ Recycling & Recovery-Sydney	XN73YM	ISUZU	Hooklift	69.8	-	N		No exceedance
7:31	Hunter's Hill Council	XO74MZ		Rearlift	74.8	-	N		No exceedance
7:31	Cumberland Council - Auburn	XO17SN	DENNIS	Frontlift	78.0	-	Yes		No exceedance
7:32	City of Ryde	XO86GD		Frontlift	78.6	-	Yes		No exceedance
7:39	Cumberland Council - Auburn	URM817	IVECO	-	79.2	-	N		No exceedance
7:42	Wanless Waste Management Pty Ltd	XO96PY	-	Rearlift	77.0	-	N		No exceedance
7:42	Inner West Council Leichhardt	XN87UY	HINO	Rearlift	78.1	-	N		No exceedance
7:45	Inner West Council - Ashfield	XO44TW	HINO	Rearlift	76.3	-	N		No exceedance
7:46	City of Ryde	XN26YU	IVECO	-	77.1	-	N		No exceedance
7:48	City of Ryde	XN20YU	IVECO	Rearlift	78.5	Right (top)	N		No exceedance
7:51	Hornsby Council	XN78ZF	DENNIS	Rearlift	73.0	-	Yes		No exceedance
7:53	Wastefree (Aust) Pty Ltd	XO16SV	-		78.0	-	N		No exceedance
7:55	Purple Cow Industries Pty Ltd	04PCOW	-	Skip	73.4	-	Yes		No exceedance
7:57	Enfield RearLift	CAL068	ISUZU	-	72.0	-	N		No exceedance
7:57	Burwood Council	XQ81GB	-	-	68.4	-	N		No exceedance
7:58	Capital City Waste Services Pty Ltd	XN01PJ		-	66.3	-	Yes		No exceedance
7:59	City of Ryde	XN75MK	IVECO	-	72.7	-	Yes		No exceedance
7:59	Cumberland Council - Auburn	XN25IA	-	-	76.6	-	Yes		No exceedance
8:00	Lane Cove Council	XO77MZ	-	-	74.9	-	Yes		No exceedance
8:01	Wastefree (Aust) Pty Ltd	XV61RI	-	-	69.6	-	Yes		No exceedance
8:01	Inner West Council - Ashfield	CK27AL	-	-	78.1	-	Yes		No exceedance
8:02	Revesby Biosecurity Treatment Facil	XN75LQ	ISUZU	Skip	71.1	-	Yes		No exceedance

Clyde Transfer Terminal Annual Truck Noise Monitoring									
Time In	Vehicle Company Name	Rego No	Vehicle Make	Lift Type	LA Max (dBA)	cle Exhaust Loc	eeded Acceleration (Y	Comment	Exceedances
8:03	Inner West Council Leichhardt	XN88UY	-	Rearlift	75.4	-	Yes		No exceedance
8:06	SUEZ Recycling & Recovery-Sydney	XO83FH	HINO	Rearlift	69.3	-	Yes		No exceedance
8:06	City of Ryde	XO92AH		Rearlift	77.5	-	Yes		No exceedance
8:07	City of Ryde	XO01AO		-	74.9	-	Yes		No exceedance
8:11	Canterbury-Bankstown Council	XN45WO	IVECO	Rearlift	71.9	Right	Yes		No exceedance
8:12	SUEZ Recycling & Recovery-Sydney	XN51RK		Hooklift	73.6	Right	Yes		No exceedance
8:13	Canterbury-Bankstown Council	XN72BC	IVECO	-	75.3	Right	Yes		No exceedance
8:15	Cumberland Council - Auburn	URM813	IVECO	-	77.1	Right (top)	Yes		No exceedance
8:15	City of Ryde	XN79YD	BUCHER	Rearlift	80.4		Yes		No exceedance
8:18	JJ Richards & Sons Pty Ltd	YLH53Y	IVECO	Rearlift	75.9	Centre (front)	Yes		No exceedance
8:20	Lane Cove Council	XO73MZ	DENNIS	Frontlift	76.9		N		No exceedance
8:22	Burwood Council	XQ83GB	-	Rearlift	71.1	-	Yes		No exceedance
8:23	Cumberland Council - Auburn	XO75SC	HINO	Rearlift	71.5		Yes		No exceedance
8:28	Inner West Council Leichhardt	BL54KN	HINO	Rearlift	75.0		N		No exceedance
8:28	Canterbury-Bankstown Council	XN47AO	IVECO	Rearlift	82.5		N		No exceedance
8:30	Capital City Waste Services Pty Ltd	CJ77ZS	-	-	72.1		N		No exceedance
8:31	Enfield RearLift	XN15OI	ISUZU	Rearlift	75.4		Yes		No exceedance
8:34	Cumberland Council - Auburn	URM846	IVECO	Frontlift	76.9		N		No exceedance
8:37	Strathfield Municipal Council	CL51CZ	HINO	Rearlift	71.1		N		No exceedance
8:40	Burwood Council	XQ82GB	VOLVO	Frontlift	71.2		N		No exceedance
8:46	Strathfield Municipal Council	XN37IM	HINO	Rearlift	73.8	Right (bottom)	N		No exceedance
8:48	ORG Organic Recycling Group Pty Ltd	XN83NW	VOLVO	Rearlift	77.7		N		No exceedance
8:49	Cumberland Council - Auburn	URM803	IVECO	Frontlift	75.5		N		No exceedance
8:50	Lane Cove Council	XO76MZ	DENNIS	Frontlift	76.4		N		No exceedance
8:52	Enfield RearLift	XO35XO	VOLVO	Rearlift	71.5	Left (bottom)	N		No exceedance
8:55	Wastefree (Aust) Pty Ltd	XO06UQ	HINO	rearlift	72.4		N		No exceedance
8:56	SUEZ Recycling & Recovery-Sydney	XO28ID	ISUZU	hooklift	72.9	Right (bottom)	N		No exceedance
8:57	Canterbury-Bankstown Council	XN45VY	IVECO	rearlift	73.5	Left (bottom)	N		No exceedance
9:01	City of Canada Bay Council - Domestic	XO42KY	-	-	77.5	Right (top)	N		No exceedance
9:05	Lane Cove Council	XO07PF		rearlift	68.9	-	N		No exceedance
9:05	Canterbury-Bankstown Council	XN44VY	IVECO	frontlift	71.0	Right (bottom)	N		No exceedance
9:06	JJ Richards & Sons Pty Ltd	XP74BW	DENNIS	rearlift	73.1		N		No exceedance
9:07	Canterbury-Bankstown Council	CH89NS	IVECO	frontlift	74.2	Right (top)	N		No exceedance
9:09	City of Canada Bay Council - Domestic	XO41KY	IVECO	-	76.0		N		No exceedance
9:09	City of Ryde	XN85HS	-	rearlift	69.6	Centre front	Yes		No exceedance
9:12	Canterbury-Bankstown Council	XN23JX	IVECO	frontlift	75.3	Centre front	N		No exceedance
9:15	Enfield RearLift	XO59WW	VOLVO	-	72.1		N		No exceedance

Clyde Transfer Terminal Annual Truck Noise Monitoring									
Time In	Vehicle Company Name	Rego No	Vehicle Make	Lift Type	LA Max (dBA)	cle Exhaust Loca	eeded Acceleration (Y	Comment	Exceedances
9:16	City of Canada Bay Council - Domestic	XO90JE	IVECO	Frontlift	76.4	Right (top)	N		No exceedance
9:17	Canterbury-Bankstown Council	CP80RB	IVECO	Frontlift	72.1	Right (top)	N		No exceedance
9:22	City of Canada Bay Council - Domestic	XO52KY	DENNIS	Rearlift	74.1		N		No exceedance
9:23	City of Ryde	CB46UN	ISUZU	-	72.4	Rear (bottom)	N		No exceedance
9:25	Lane Cove Council	XO48TC	ISUZU	Rearlift	71.0	-	N		No exceedance
9:25	Enfield RearLift	XO44CU	ISUZU	Rearlift	72.5	-	N		No exceedance
9:30	Revesby Biosecurity Treatment Facil	XN75LQ	ISUZU	Skip	73.3	Right (bottom)	N		No exceedance
9:32	Canterbury-Bankstown Council	XN44ML	IVECO	Rearlift	76.1	Right (top)	N		No exceedance
9:33	Canterbury-Bankstown Council	XN44IM	ISUZU	Rearlift	71.0	-	N		No exceedance
9:34	Canterbury-Bankstown Council	CJ18SV	IVECO	Rearlift	77.5	Right (top)	N		No exceedance
9:34	Canterbury-Bankstown Council	XN62YA	IVECO	Frontlift	67.0		N		No exceedance
9:35	Canterbury-Bankstown Council	XN19XO	IVECO	Frontlift	69.4		Yes		No exceedance
9:35	JJ Richards & Sons Pty Ltd	XO29NQ	-	Hooklift	73.7		Yes		No exceedance
9:37	Canterbury-Bankstown Council	XN17XO	IVECO	Frontlift	69.5	Right (bottom)	Yes		No exceedance
9:37	Canterbury-Bankstown Council	XN05XO	-	Frontlift	72.9	-	Yes		No exceedance
9:38	Canterbury-Bankstown Council	XN15XO	BUCHER	Frontlift	77.0	-	Yes		No exceedance
9:38	Canterbury-Bankstown Council	XN55BI	-	Frontlift	72.1	-	Yes		No exceedance
9:39	Cumberland Council - Auburn	URM814	-	Frontlift	71.4	Right (top)	Yes		No exceedance
9:40	Hornsby Council	XO12AB	DENNIS	Frontlift	69.9	Right (bottom)	Yes		No exceedance
9:41	Hornsby Council	XN65ZF	DENNIS	Frontlift	68.5	-	Yes		No exceedance
9:42	Hornsby Council	XN50ZK	DENNIS	Frontlift	68.5	-	Yes		No exceedance
9:43	Strathfield Municipal Council	CP61YV	HINO	Rearlift	68.4	-	Yes		No exceedance
9:44	Ku-ring-gai Council	XO11IT	VOLVO	Rearlift	70.7	-	Yes		No exceedance
9:47	Canterbury-Bankstown Council	XN18XO	IVECO	Frontlift	75.3	-	N		No exceedance
9:47	Canterbury-Bankstown Council	XN15XO	IVECO	Frontlift	70.4	-	N		No exceedance
9:57	Ku-ring-gai Council	CM72SQ	IVECO	Frontlift	79.7	Right (top)	N		No exceedance
9:59	Ku-ring-gai Council	CN79MI	Mitsubishi	Rearlift	66.2	-	N		No exceedance
10:00	Ku-ring-gai Council	CN84MI	-	Rearlift	68.0	Right	N		No exceedance
10:01	URM Environmental Services Pty Limi	XO94BW	CP	Skip	74.3	Right (top)	N		No exceedance
10:02	Hornsby Council	XO11AB	IVECO	Rearlift	70.4	-	N		No exceedance
10:02	CBD Waste & Recycling Pty Ltd	XN57XB	-	Rearlift	76.1	Right (top)	N		No exceedance
10:03	Ku-ring-gai Council	XO07IT	IVECO	Frontlift	69.3	-	N		No exceedance
10:04	Ku-ring-gai Council	CM73SQ	HINO	Frontlift	78.8	-	N		No exceedance
10:05	Hornsby Council	XO26AN	HINO	Rearlift	63.6	-	N		No exceedance
10:07	Parramatta City Council Depot V101	BH63QY	HINO	Rearlift	69.3	-	Yes		No exceedance
10:08	Ku-ring-gai Council	XO44SM	HINO	Rearlift	67.4	-	N	**Small Truck**	No exceedance
10:12	Enfield FrontLift	XN47NO	VOLVO	Hooklift	72.2	-	N		No exceedance

Clyde Transfer Terminal Annual Truck Noise Monitoring									
Time In	**Vehicle Company Name**	**Rego No**	**Vehicle Make**	**Lift Type**	**LA Max (dBA)**	**cle Exhaust Loc**	**eded Acceleration (Y**	**Comment**	**Exceedances**
10:13	Parramatta City Council Depot V101	XN27FG	HINO	Rearlift	70.2	-	N		No exceedance
10:14	Canterbury-Bankstown Council	XN93YO	IVECO	Rearlift	69.0	-	N		No exceedance
10:14	ORG Organic Recycling Group Pty Ltd	CO37GV	-	Rearlift	72.0	Right (bottom)	N		No exceedance
10:17	External Bulk - No Jobs Available	CL43KU	ISUZU	Rearlift	71.0	-	N		No exceedance
10:18	Fairfield City Council-waste	XO41OZ	Mercedes	Rearlift	72.0	-	N		No exceedance
10:19	Enfield FrontLift	XN26NX	VOLVO	Hooklift	73.3	-	Yes		No exceedance
10:19	JJ Richards & Sons Pty Ltd	XN34EB	-	Rearlift	70.0	-	Yes		No exceedance
10:24	Hornsby Council	XO10AB	DENNIS	Rearlift	71.8	-	N		No exceedance
10:24	Hornsby Council	XO15AW	DENNIS	Frontlift	70.7	-	N		No exceedance
10:24	Cumberland Council - Auburn	XO79RB	HINO	Rearlift	73.3	-	Yes		No exceedance
					86.0				

Date Sampled	23/09/2024
Sampler(s)	A. Ressos & N. Boukarim
Location	Clyde Transfer Terminal: 319 Great Western Hwy, Auburn NSW 2144
Report Ref.	CTT_TRUCK_0924
Applicable Noise Limits	Heavy vehicle noise limits specified in Australian Design Rule 28/01 (ADR 28/01) 87dBA (upper limit) for heavy vehicle 84dBA for smaller trucks