



VEOLIA

ENVIRONMENTAL SERVICES

Technical and Engineering Division

ANNUAL TRUCK NOISE MEASUREMENTS

CLYDE TRANSFER TERMINAL

September 2012

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QUALITY INFORMATION

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Date: September 2012

Reference: CTT_TRUCK_0912

Status: **Final**

Distribution List: Resource Recovery (*Library copy*)

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TABLE OF CONTENTS

1. INTRODUCTION	1
2. NOISE LIMIT CRITERIA	3
3. MEASUREMENT METHODOLOGY	4
4. NOISE MEASUREMENT RESULTS.....	5
5. DISCUSSION	7
6. CONCLUSIONS	<u>98</u>
7. REFERENCES	<u>109</u>
8. APPENDICES	<u>1211</u>
<i>Appendix A Truck Noise Monitoring Location</i>	<i>a</i>
<i>Appendix B Sound Level Meter Calibration Certificates.....</i>	<i>b</i>
<i>Appendix C Weighbridge Records.....</i>	<i>c</i>
<i>Appendix D Truck Noise Measurement Field Sheets.....</i>	<i>d</i>

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1. INTRODUCTION

The Clyde Transfer Terminal (the Terminal) is located at 322 Parramatta Road, Auburn, and operates as a waste transfer facility to accept and transport containerised General Solid Waste (Putrescible) in accordance with Environmental Protection Licence 11763 via rail to Veolia Environmental Services' (VES) Woodlawn Eco-Precinct in Tarago.

The Terminal was issued with Conditions of Development Consent (Conditions) by the Department of Planning and Infrastructure (DPI) formerly known as the Department of Planning, which are attached to the Development Consent. The Conditions include a requirement to assess heavy vehicle noise with 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 (the Report) presents the results of the seventh round of heavy vehicle noise monitoring at the Terminal. Monitoring was completed by the VES Technical and Engineering Division on the 22 August 2012 between 7:00am and 11:30am, in accordance with the Proposed Test Management Plan (PTMP) developed by Heggies. This is the third sampling event and report prepared by VES under Condition 112 since VES assumed the responsibility of monitoring from Heggies.



2. 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: L_{Amax} 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, L_{Amax} 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 road, with 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.



3. MEASUREMENT METHODOLOGY

The monitoring location from which the truck noise was measured was consistent with previous monitoring rounds conducted by VES and Heggies. Measurements were taken at a distance of 7.5 metres from the centre of 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 operating under full throttle 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 Quest Technologies SoundPro SE/DL Type 1 Sound Level Meter, using an A-weighted (L_A) filter network and fast response time constant as required under ADR 28/01. The (L_A) 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 rental monitoring equipment suppliers Airmet Scientific prior to monitoring. The calibration certificate is included in **Appendix B**.

For each truck movement a L_A maximum noise level measurement was recorded. Additional information on each truck movement was noted (where possible) to assist in identification of trucks exceeding 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 22 August 2012, 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.



4. NOISE MEASUREMENT RESULTS

A total of 88 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. 18 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 31.10% of all truck movements (283) 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 69dBA to 85dBA with the highest frequency occurring between 75dBA to 79dBA. Impaired acceleration readings due to the impeded traffic conditions ranged from 70dBA to 76dBA. Impaired acceleration readings were plotted separately from the normal accelerating vehicles on Figure 1.

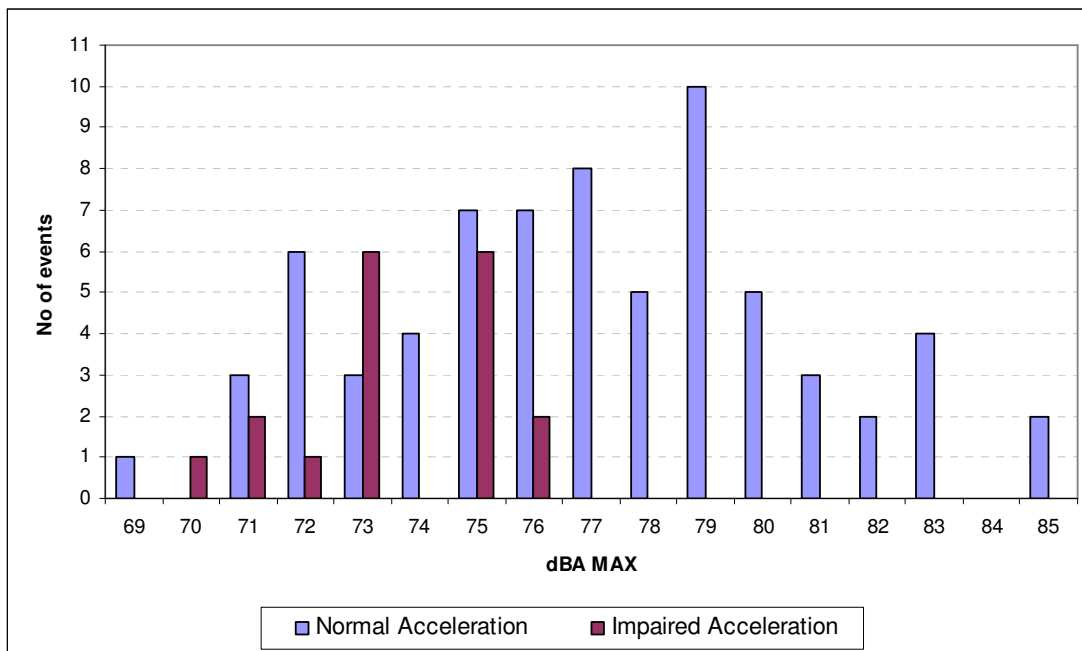


Figure 1: Noise level distribution from Truck Noise Monitoring – 22 August 2012



5. DISCUSSION

Comparison of the heavy vehicle noise measurement results against the limits specified in ADR 28/01 (refer to **Table 1**) indicates that all trucks entering the Terminal in this monitoring round were within the acceptable noise criteria for the NC category vehicles (<87dBA). Driver behaviour also influenced noise measurements, with faster acceleration leading to higher noise recordings and less acceleration leading to lower noise recordings.

Six smaller waste vehicles (ranging from approximately 6 – 11 tonnes when loaded) were 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.

Table 2: NB class vehicle noise measurements

Time	Company	Make	Registration	L _A Max (dBA)	Impeded Movement
7:34	URM	Mitsubishi	BI42NP	71.4	N
8:33	VES	Mitsubishi	AA42JJ	74.7	N
8:53	VES	Isuzu	ZBJ055/WTRANS	71.5	N
9:49	Sydney Waste	Mitsubishi	XPL658	70.8	N
10:45	VES	Isuzu	BN04VS	73.2	N
11:29	Auburn	Isuzu	AB90AN	73.9	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) was 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 focussing noise measurements on truck movements into the facility by limiting interference noise sources.

No noise complaints pertaining to the Terminal's operations were received between the annual truck noise monitoring rounds. This indicates that noise impacts from waste truck movements at the Terminal boundary are within the Terminal and surrounding area background noise levels.



6. CONCLUSIONS

Truck noise monitoring was conducted on 22 August 2012 between 7:00am and 11:30am. The results indicated:

- Noise from 88 truck movements was measured;
- A total of 31.10% 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 noise measurements were within 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 were received since the previous truck noise monitoring round.
- Truck noise impacts at the Terminal boundary are considered to be within background levels.



7. 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.

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8. APPENDICES

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Appendix A Truck Noise Monitoring Location

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Appendix B Sound Level Meter Calibration Certificates

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Appendix C Weighbridge Records

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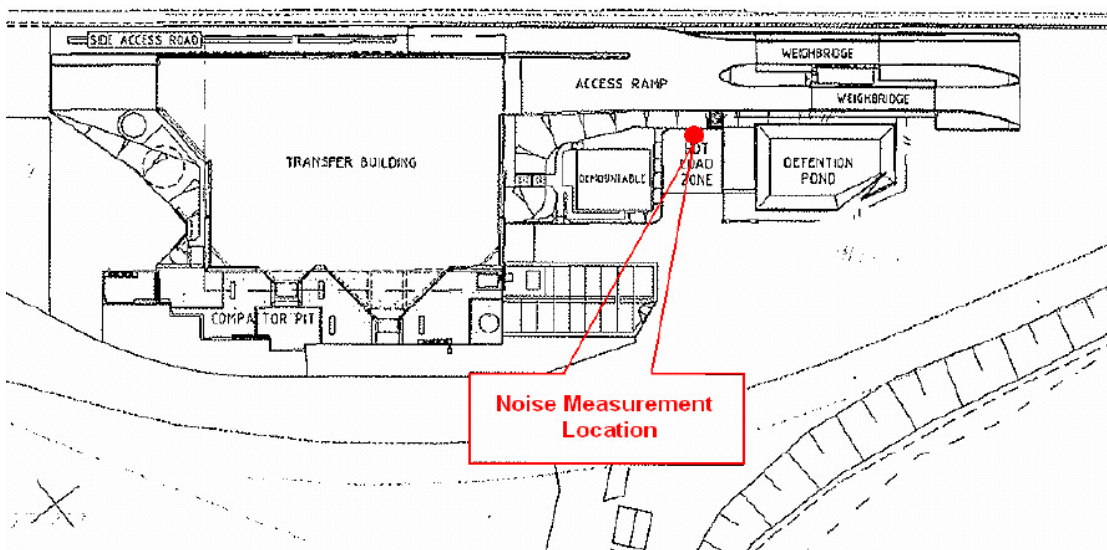
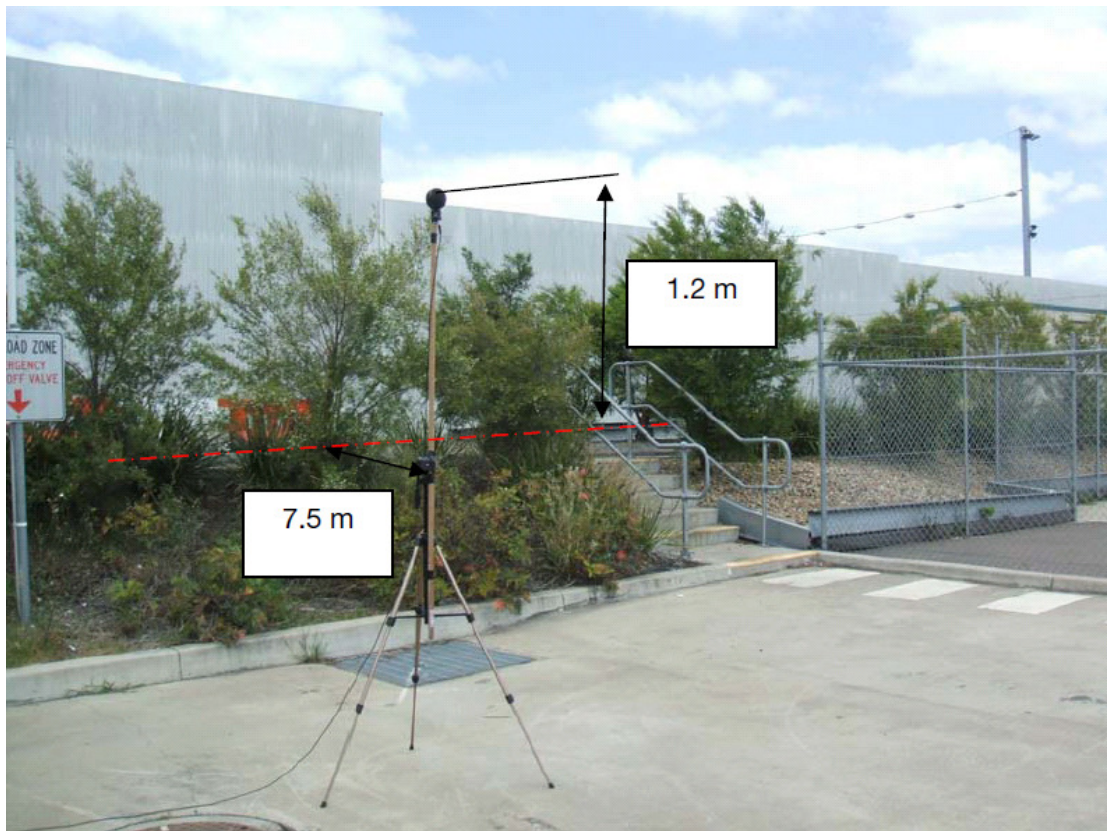


Appendix D Truck Noise Measurement Field Sheets

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Truck Noise Monitoring Location



NSW Sound Level Meter Calibration Sheet

Equipment Model: *Sound Pro*

Equipment Type: Sound Level Meter

Serial Number: *BL 1090009*

Calibration Record	Units	Pre Cal	Cal Value	Post Cal	Pass?	Comments
<i>6:50am</i>	dB	<i>114</i>	114	<i>114</i>	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	<i>Pre-testing</i>
<i>11:40am</i>	dB	<i>114</i>	114	<i>114</i>	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	<i>Post-testing</i>
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	
	dB		114		Y / N	

Functions Check		Operating			
Battery	<i>50%</i>	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	Charge	<i>N/A</i>	%

spare batteries

Calibration Technician	Calibration Date
Signature <i>S. Bernhart</i>	<i>22/08/2012</i>

Date : 22/08/2012
Plant: Clyde L67 Report

Waste Disposal Insta	Posting Date	Tare_Wtime	License No	PWS Docket number	Customer Name
W-2CLYTRA	22.08.2012	0:28:30	BJ48LR	1219556821	Enfield Bulk
W-2CLYTRA	22.08.2012	0:36:57	WTRANS	1219556822	Enfield Bulk
W-2CLYTRA	22.08.2012	0:49:30	WTRANS	1219556823	Enfield Bulk
W-2CLYTRA	22.08.2012	0:49:59	BI22FV	1219556824	Enfield Bulk
W-2CLYTRA	22.08.2012	1:03:01	AZ44YE	1219556825	City of Sydney Council - Cleansing
W-2CLYTRA	22.08.2012	1:01:36	AA82JI	1219556826	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	1:04:10	WTRANS	1219556827	Enfield Bulk
W-2CLYTRA	22.08.2012	1:06:02	AZ77RA	1219556828	Enfield RearLift
W-2CLYTRA	22.08.2012	1:09:30	BF59GP	1219556829	Hornsby Council
W-2CLYTRA	22.08.2012	1:08:34	BL30SD	1219556830	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	1:26:34	XPL658	1219556831	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	1:30:20	AW38FZ	1219556832	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	1:36:45	WTRANS	1219556833	Enfield Bulk
W-2CLYTRA	22.08.2012	1:35:10	AK39DP	1219556834	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	1:48:13	ZLD406	1219556835	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	1:53:29	BI22FV	1219556836	Enfield Bulk
W-2CLYTRA	22.08.2012	1:56:35	BJ26CR	1219556837	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	2:03:00	BJ48LR	1219556838	Enfield Bulk
W-2CLYTRA	22.08.2012	2:08:47	WTRANS	1219556839	Enfield Bulk
W-2CLYTRA	22.08.2012	2:03:51	AA42JJ	1219556840	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	2:21:35	BLM007	1219556841	Enfield FrontLift
W-2CLYTRA	22.08.2012	2:31:27	STINKS	1219556842	Enfield RearLift
W-2CLYTRA	22.08.2012	2:30:47	BA16EP	1219556843	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	2:40:08	BK54YO	1219556844	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	3:05:01	AZ32SY	1219556845	Transpacific Cleanaway
W-2CLYTRA	22.08.2012	2:58:34	GAL216	1219556846	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	2:59:30	BB94XB	1219556847	City of Sydney Council - Cleansing
W-2CLYTRA	22.08.2012	3:01:36	YTS175	1219556848	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	3:06:39	AZ41AD	1219556849	Enfield RearLift
W-2CLYTRA	22.08.2012	3:05:50	AB43JX	1219556850	Enfield FrontLift
W-2CLYTRA	22.08.2012	3:07:44	BR07PK	1219556851	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	3:15:01	WTRANS	1219556852	Enfield Bulk
W-2CLYTRA	22.08.2012	3:22:31	UXC834	1219556853	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	3:19:55	WTRANS	1219556854	External Bulk - No Jobs Available
W-2CLYTRA	22.08.2012	3:26:32	AF27MB	1219556855	Enfield Bulk
W-2CLYTRA	22.08.2012	3:27:19	URM253	1219556856	United Resource Management
W-2CLYTRA	22.08.2012	3:24:34	BP50LB	1219556857	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	3:25:05	AA82JI	1219556858	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	3:28:13	BI42NP	1219556859	United Resource Management
W-2CLYTRA	22.08.2012	3:28:55	CAL068	1219556860	Enfield RearLift
W-2CLYTRA	22.08.2012	3:30:06	AF26TL	1219556861	Enfield FrontLift
W-2CLYTRA	22.08.2012	3:32:56	BN52RX	1219556862	Enfield RearLift
W-2CLYTRA	22.08.2012	3:37:15	BF85GB	1219556863	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	3:39:41	BR03WA	1219556864	Remondis
W-2CLYTRA	22.08.2012	3:42:08	BJ92WM	1219556865	Remondis
W-2CLYTRA	22.08.2012	3:44:15	BJ48LR	1219556866	Enfield Bulk
W-2CLYTRA	22.08.2012	3:50:07	AW73UZ	1219556867	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	3:48:29	VTU624	1219556868	Remondis
W-2CLYTRA	22.08.2012	3:49:12	BB61FD	1219556869	Remondis
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W-2CLYTRA	22.08.2012	4:05:06	AU57QJ	1219556872	Enfield FrontLift
W-2CLYTRA	22.08.2012	4:07:26	AO80DN	1219556873	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	4:10:47	AZ77RA	1219556874	Enfield RearLift
W-2CLYTRA	22.08.2012	4:19:21	BLM007	1219556875	Enfield FrontLift
W-2CLYTRA	22.08.2012	4:22:18	AC29AE	1219556876	Ku-ring-gai Council

Waste Disposal Insta	Posting Date	Tare_Wtime	License No	PWS Docket number	Customer Name
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W-2CLYTRA	22.08.2012	4:36:24	BF48RO	1219556884	Remondis
W-2CLYTRA	22.08.2012	4:41:29	AJ00XP	1219556885	Enfield Bulk
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W-2CLYTRA	22.08.2012	4:51:41	BG05HG	1219556890	Strathfield Municipal Council
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W-2CLYTRA	22.08.2012	5:31:27	AA42JJ	1219556906	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	5:46:54	AK17FM	1219556907	Dimeo Waste Services Pty Ltd
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W-2CLYTRA	22.08.2012	5:50:49	AM46VY	1219556911	Remondis
W-2CLYTRA	22.08.2012	5:57:39	AO24JO	1219556912	Enfield FrontLift
W-2CLYTRA	22.08.2012	5:58:48	AY89AM	1219556913	Auburn Council
W-2CLYTRA	22.08.2012	6:06:16	BN62LS	1219556914	Dimeo Waste Services Pty Ltd
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W-2CLYTRA	22.08.2012	6:39:09	AJ49HH	1219556922	Strathfield Municipal Council
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W-2CLYTRA	22.08.2012	8:18:06	BD88RL	1219556935	Enfield FrontLift
W-2CLYTRA	22.08.2012	8:21:38	BB21FO	1219556936	JJ Richards & Sons

Waste Disposal Insta	Posting Date	Tare_Wtime	License No	PWS Docket number	Customer Name
W-2CLYTRA	22.08.2012	8:20:55	BN29GB	1219556937	Canterbury City Council
W-2CLYTRA	22.08.2012	8:27:46	BN18VS	1219556938	Enfield RearLift
W-2CLYTRA	22.08.2012	8:23:38	AY89AM	1219556939	Auburn Council
W-2CLYTRA	22.08.2012	8:36:40	AY75CT	1219556940	Auburn Council
W-2CLYTRA	22.08.2012	8:35:22	AA42JJ	1219556941	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	8:39:45	BP02LI	1219556942	Canterbury City Council
W-2CLYTRA	22.08.2012	8:42:34	BH77MA	1219556943	JJ Richards & Sons
W-2CLYTRA	22.08.2012	8:41:56	BJ92WM	1219556944	Remondis
W-2CLYTRA	22.08.2012	8:48:42	BF15LP	1219556945	Leichhardt Council
W-2CLYTRA	22.08.2012	8:48:06	BM69KE	1219556946	Remondis
W-2CLYTRA	22.08.2012	8:46:50	AA64JF	1219556947	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	8:55:25	AC29AE	1219556948	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	9:05:56	YMF778	1219556949	Pioneer Waste
W-2CLYTRA	22.08.2012	9:00:50	WTRANS	1219556950	Enfield Bulk
W-2CLYTRA	22.08.2012	9:05:06	AG72DK	1219556951	JJ Richards & Sons
W-2CLYTRA	22.08.2012	9:04:07	WFF981	1219556952	Auburn Council
W-2CLYTRA	22.08.2012	9:06:28	AR91WK	1219556953	JJ Richards & Sons
W-2CLYTRA	22.08.2012	9:09:55	BP01LI	1219556954	Canterbury City Council
W-2CLYTRA	22.08.2012	9:12:27	URM081	1219556955	United Resource Management
W-2CLYTRA	22.08.2012	9:16:46	YOT207	1219556956	Remondis
W-2CLYTRA	22.08.2012	9:23:18	BP10AW	1219556957	Enfield FrontLift
W-2CLYTRA	22.08.2012	9:24:13	BN56QO	1219556958	Canterbury City Council
W-2CLYTRA	22.08.2012	9:29:21	BE11HT	1219556959	Hornsby Council
W-2CLYTRA	22.08.2012	9:33:02	WSK330	1219556960	Burwood Council
W-2CLYTRA	22.08.2012	9:33:45	AQ97PD	1219556961	Parramatta City Council Depot
W-2CLYTRA	22.08.2012	9:40:10	WFF981	1219556962	Auburn Council
W-2CLYTRA	22.08.2012	9:47:15	AT92MN	1219556963	Leichhardt Council
W-2CLYTRA	22.08.2012	9:49:46	ZGJ863	1219556964	Burwood Council - Trade Waste Servi
W-2CLYTRA	22.08.2012	9:51:57	BI54ZO	1219556965	Enfield FrontLift
W-2CLYTRA	22.08.2012	9:55:19	AW67CF	1219556966	Burwood Council
W-2CLYTRA	22.08.2012	10:01:54	XPL658	1219556967	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	9:59:25	AZ41AD	1219556968	Enfield RearLift
W-2CLYTRA	22.08.2012	9:56:37	AR10LS	1219556969	The Hills Shire Council
W-2CLYTRA	22.08.2012	9:57:28	AR09LS	1219556970	The Hills Shire Council
W-2CLYTRA	22.08.2012	10:03:55	AB90AN	1219556971	Auburn Council
W-2CLYTRA	22.08.2012	10:03:20	AR11LS	1219556972	The Hills Shire Council
W-2CLYTRA	22.08.2012	10:10:00	BF15LP	1219556973	Leichhardt Council
W-2CLYTRA	22.08.2012	10:09:09	AA66JF	1219556974	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	10:11:52	AA63JF	1219556975	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	10:16:49	URM093	1219556976	United Resource Management
W-2CLYTRA	22.08.2012	10:18:16	AP73YU	1219556977	JJ Richards & Sons
W-2CLYTRA	22.08.2012	10:19:49	AG66LI	1219556978	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	10:20:49	AY88AM	1219556979	Auburn Council
W-2CLYTRA	22.08.2012	10:23:53	BN06VM	1219556980	Canterbury City Council
W-2CLYTRA	22.08.2012	10:25:21	BD95ZZ	1219556981	Enfield RearLift
W-2CLYTRA	22.08.2012	10:26:22	AR38AI	1219556982	The Hills Shire Council
W-2CLYTRA	22.08.2012	10:28:18	AW36CB	1219556983	Enfield FrontLift
W-2CLYTRA	22.08.2012	10:29:49	AR22LS	1219556984	The Hills Shire Council
W-2CLYTRA	22.08.2012	10:32:40	BE15HT	1219556985	Hornsby Council
W-2CLYTRA	22.08.2012	10:33:42	BN31GB	1219556986	Canterbury City Council
W-2CLYTRA	22.08.2012	10:36:06	AR49AI	1219556987	The Hills Shire Council
W-2CLYTRA	22.08.2012	10:38:44	BN30GB	1219556988	Canterbury City Council
W-2CLYTRA	22.08.2012	10:40:00	YPY937	1219556989	Enfield RearLift
W-2CLYTRA	22.08.2012	10:42:41	AF26TL	1219556990	Enfield FrontLift
W-2CLYTRA	22.08.2012	10:47:51	YUQ986	1219556991	Enfield RearLift
W-2CLYTRA	22.08.2012	10:48:24	AE30CD	1219556992	United Resource Management
W-2CLYTRA	22.08.2012	10:47:01	BE74KO	1219556993	Hornsby Council
W-2CLYTRA	22.08.2012	10:48:57	AC56XB	1219556994	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	10:52:50	BK34WI	1219556995	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	10:50:35	BE21KN	1219556996	Hornsby Council

Waste Disposal Insta	Posting Date	Tare_Wtime	License No	PWS Docket number	Customer Name
W-2CLYTRA	22.08.2012	10:51:27	BN04VS	1219556997	Enfield RearLift
W-2CLYTRA	22.08.2012	10:54:14	AA76JG	1219556998	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	10:56:27	AR97WK	1219556999	The Hills Shire Council
W-2CLYTRA	22.08.2012	10:55:51	AA52WJ	1219557000	Enfield RearLift
W-2CLYTRA	22.08.2012	11:00:21	BE93DJ	1219557001	Hornsby Council
W-2CLYTRA	22.08.2012	11:02:03	BH77MA	1219557002	JJ Richards & Sons
W-2CLYTRA	22.08.2012	11:02:40	AB58WT	1219557003	JJ Richards & Sons
W-2CLYTRA	22.08.2012	11:10:31	AY90AM	1219557004	Auburn Council
W-2CLYTRA	22.08.2012	11:20:45	UXC834	1219557005	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	11:22:14	AR48AI	1219557006	The Hills Shire Council
W-2CLYTRA	22.08.2012	11:29:23	DCS069	1219557007	Earthpower
W-2CLYTRA	22.08.2012	11:36:18	AU80YR	1219557008	Auburn Council
W-2CLYTRA	22.08.2012	11:33:52	AB90AN	1219557009	Auburn Council
W-2CLYTRA	22.08.2012	11:34:56	BE73KP	1219557010	Hornsby Council
W-2CLYTRA	22.08.2012	11:37:53	ZBN571	1219557011	Remondis
W-2CLYTRA	22.08.2012	11:48:23	RTJ609	1219557012	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	11:41:59	AY73LY	1219557013	Remondis
W-2CLYTRA	22.08.2012	11:45:22	BN73GB	1219557014	Canterbury City Council
W-2CLYTRA	22.08.2012	11:47:29	AH42WS	1219557015	Enfield FrontLift
W-2CLYTRA	22.08.2012	11:53:53	URM233	1219557016	United Resource Management
W-2CLYTRA	22.08.2012	11:50:58	BB46JJ	1219557017	Parramatta City Council Depot
W-2CLYTRA	22.08.2012	11:55:39	AR21LS	1219557018	The Hills Shire Council
W-2CLYTRA	22.08.2012	11:58:12	DCS069	1219557019	Earthpower
W-2CLYTRA	22.08.2012	12:01:00	AU57QJ	1219557020	Enfield FrontLift
W-2CLYTRA	22.08.2012	12:04:10	BD18ER	1219557021	Enfield FrontLift
W-2CLYTRA	22.08.2012	12:08:43	AV17XT	1219557022	Enfield FrontLift
W-2CLYTRA	22.08.2012	12:07:02	BE57KP	1219557023	Hornsby Council
W-2CLYTRA	22.08.2012	12:09:49	BE20KN	1219557024	Hornsby Council
W-2CLYTRA	22.08.2012	12:17:41	AZ13JG	1219557026	Enfield RearLift
W-2CLYTRA	22.08.2012	12:24:10	AV19XT	1219557028	Enfield FrontLift
W-2CLYTRA	22.08.2012	12:23:23	AO24JO	1219557029	Enfield FrontLift
W-2CLYTRA	22.08.2012	12:26:48	GAL203	1219557030	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	12:30:32	URM076	1219557031	United Resource Management
W-2CLYTRA	22.08.2012	12:32:36	AU59AK	1219557034	Enfield RearLift
W-2CLYTRA	22.08.2012	12:37:32	AZ54YF	1219557035	Remondis
W-2CLYTRA	22.08.2012	12:40:49	AB30BI	1219557036	Capital City Waste Services
W-2CLYTRA	22.08.2012	12:45:05	URM059	1219557037	United Resource Management
W-2CLYTRA	22.08.2012	12:50:36	BJ26CR	1219557038	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	12:50:05	BD88RL	1219557039	Enfield FrontLift
W-2CLYTRA	22.08.2012	12:52:58	BE11HT	1219557040	Hornsby Council
W-2CLYTRA	22.08.2012	12:56:58	ZGH398	1219557041	JJ Richards & Sons
W-2CLYTRA	22.08.2012	12:59:17	BL86SB	1219557042	United Resource Management
W-2CLYTRA	22.08.2012	13:06:39	BM61KZ	1219557043	Sydney Waste Pty Ltd
W-2CLYTRA	22.08.2012	13:05:19	BD49ZB	1219557044	Hornsby Council
W-2CLYTRA	22.08.2012	13:14:57	AJ00XP	1219557045	Enfield Bulk
W-2CLYTRA	22.08.2012	13:11:59	BH63QY	1219557046	Parramatta City Council Depot
W-2CLYTRA	22.08.2012	13:18:25	BQ66WS	1219557047	The Hills Shire Council
W-2CLYTRA	22.08.2012	13:19:04	AV00SO	1219557048	JJ Richards & Sons
W-2CLYTRA	22.08.2012	13:19:49	AA66JF	1219557049	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	13:20:28	AA63JF	1219557050	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	13:26:28	YIQ467	1219557051	Enfield RearLift
W-2CLYTRA	22.08.2012	13:27:43	AQ85CP	1219557052	JJ Richards & Sons
W-2CLYTRA	22.08.2012	13:34:57	AG66LI	1219557053	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	13:39:24	AF27MB	1219557054	Enfield Bulk
W-2CLYTRA	22.08.2012	13:47:01	URM054	1219557055	United Resource Management
W-2CLYTRA	22.08.2012	13:47:57	BL17SA	1219557056	Auburn Council
W-2CLYTRA	22.08.2012	13:49:38	AW36CB	1219557057	Enfield FrontLift
W-2CLYTRA	22.08.2012	13:52:14	BI54ZO	1219557058	Enfield FrontLift
W-2CLYTRA	22.08.2012	13:56:41	URM067	1219557059	United Resource Management
W-2CLYTRA	22.08.2012	13:57:07	BE24HU	1219557060	Canterbury City Council

Waste Disposal Insta	Posting Date	Tare_Wtime	License No	PWS Docket number	Customer Name
W-2CLYTRA	22.08.2012	14:00:38	URM066	1219557061	United Resource Management
W-2CLYTRA	22.08.2012	14:01:33	AV99JC	1219557062	JJ Richards & Sons
W-2CLYTRA	22.08.2012	14:06:18	GAL211	1219557063	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	14:04:19	AA76JG	1219557064	Ku-ring-gai Council
W-2CLYTRA	22.08.2012	14:16:10	BP02LI	1219557065	Canterbury City Council
W-2CLYTRA	22.08.2012	14:18:31	AW67CF	1219557066	Burwood Council
W-2CLYTRA	22.08.2012	14:22:38	URM065	1219557067	United Resource Management
W-2CLYTRA	22.08.2012	14:25:10	BJ59DO	1219557068	JJ Richards & Sons
W-2CLYTRA	22.08.2012	14:34:23	AR10LS	1219557069	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:36:05	AR21LS	1219557070	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:35:14	AR49AI	1219557071	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:36:52	AR48AI	1219557072	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:42:30	AR22LS	1219557073	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:48:00	AR11LS	1219557074	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:47:48	AR38AI	1219557075	The Hills Shire Council
W-2CLYTRA	22.08.2012	14:48:29	AR09LS	1219557076	The Hills Shire Council
W-2CLYTRA	22.08.2012	15:10:18	WSK330	1219557077	The Hills Shire Council
W-2CLYTRA	22.08.2012	15:14:01	AH42WS	1219557078	Enfield FrontLift
W-2CLYTRA	22.08.2012	15:14:48	BD96ZZ	1219557079	Enfield RearLift
W-2CLYTRA	22.08.2012	15:27:23	BB88EB	1219557080	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	15:18:47	BD81FJ	1219557081	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	15:17:30	BE57KP	1219557082	Hornsby Council
W-2CLYTRA	22.08.2012	15:19:17	BE20KN	1219557083	Hornsby Council
W-2CLYTRA	22.08.2012	15:20:23	BE21KN	1219557084	Hornsby Council
W-2CLYTRA	22.08.2012	15:21:54	BE74KO	1219557085	Hornsby Council
W-2CLYTRA	22.08.2012	15:26:00	AJ00XP	1219557086	Enfield Bulk
W-2CLYTRA	22.08.2012	15:26:44	BE73KP	1219557087	Hornsby Council
W-2CLYTRA	22.08.2012	15:28:25	BE93DJ	1219557088	Hornsby Council
W-2CLYTRA	22.08.2012	15:34:23	URM069	1219557089	United Resource Management
W-2CLYTRA	22.08.2012	17:23:01	AH42WS	1219557090	Enfield FrontLift
W-2CLYTRA	22.08.2012	19:10:06	BJ48LR	1219557091	Enfield Bulk
W-2CLYTRA	22.08.2012	20:01:29	ZLD406	1219557092	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	21:00:34	HOOKIN	1219557093	Remondis
W-2CLYTRA	22.08.2012	21:27:39	CAL068	1219557094	Enfield RearLift
W-2CLYTRA	22.08.2012	21:29:26	BI22FV	1219557095	Enfield Bulk
W-2CLYTRA	22.08.2012	22:29:25	BI22FV	1219557096	Enfield Bulk
W-2CLYTRA	22.08.2012	22:28:50	BP50LB	1219557097	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	22:38:02	STINKS	1219557098	Enfield RearLift
W-2CLYTRA	22.08.2012	22:45:49	WTRANS	1219557099	Enfield Bulk
W-2CLYTRA	22.08.2012	22:51:30	AW78WO	1219557100	City of Sydney Council - Cleansing
W-2CLYTRA	22.08.2012	23:24:08	AO80DN	1219557101	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	23:25:27	GDE333	1219557102	Enfield FrontLift
W-2CLYTRA	22.08.2012	23:34:43	WTRANS	1219557103	Enfield Bulk
W-2CLYTRA	22.08.2012	23:50:04	YTS175	1219557104	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	0:04:28	ZLD406	1219557105	Edco Contracting Group P/L
W-2CLYTRA	22.08.2012	0:03:22	BJ26CR	1219557106	Dimeo Waste Services Pty Ltd
W-2CLYTRA	22.08.2012	0:06:55	BN52RX	1219557107	Enfield RearLift

Time	Company	Make	Lift Type	Registration	Exhaust Location	L _A Max (dBA)	Impeded Movement	Comments
7:18	TPI	Isuzu	Rear	BE24HU	Front Right	72.6	N	
7:30	VES	Hino	Sweeper	BD98VZ	Front Right	76.9	N	
7:33	Auburn	Iveco	Side	AY90AM	Front Right	79.6	N	
7:34	URM	Mitsubishi	Rear	BI42NP	Front Right	71.4	N	small
7:47	Auburn	Iveco	Side	AY88AM	Front Right	82.6	N	
7:51	VES	Volvo	Hook	BJ48LR	Front Right	75.8	N	
7:53	TPI	Dennis	Side	BN73GB	Front Right	81.9	N	
7:54	Remondis	Volvo	Front	ZBN571	Front Right	75.7	N	
8:07	Auburn	Hino	Sweeper	YHL615		68.6	N	
8:13	VES	Volvo	Front	BD88RL	Front Right	75.5	N	
8:14	JJ Richards & Sons	Iveco	Rear	BB21FO	Front Right	72.3	N	
8:15	TPI	Dennis	Side	BN29GB	Front Right	73.7	N	
8:17	VES	Isuzu	Rear	BN18VS	Front Right	75.1	N	
8:18	Auburn	Iveco	Side	AY89AM	Front Right	75.8	N	
8:29	Auburn	Iveco	Side	AY75CT	Front Right	80.6	N	
8:33	VES	Mitsubishi	Rear	AA42JJ	Front Right	74.7	N	small
8:34	TPI	Dennis	Rear	BP02LI	Front Right	74.8	N	
8:34	JJ Richards & Sons	Iveco	Front	BH77MA	Front Right	76.9	N	
8:35	Remondis	Volvo	Front	BJ92WM	Front Right	73.1	Y	
8:35	TPI		Double Hook	BF15LP	Front Right	70.4	Y	
8:36	Remondis	Mitsubishi	Rear	BM69KE	Front Left	72.8	Y	
8:42	VES	Iveco	Side	AA64JF	Front Right	74.9	N	
8:45	VES	Iveco	Rear	AC29AE	Front Right	75.4	N	
8:53	Edco	?	Front	YMF778	Front Right	73.1	N	
8:53	VES	Isuzu	Hook	ZBJ055/WTRANS	Front Left	71.5	N	small
8:56	JJ Richards & Sons	Iveco	Rear	AG72DK	Front Right	79.3	N	
8:59	Auburn	International	Rear	WFF981	Front Right	76.3	N	
9:00	JJ Richards & Sons	Scania	Front	AR91WK	Front Right	75.9	Y	
9:01	TPI	Dennis	Rear	BP01LI	Front Right	78.4	N	
9:06	URM	Iveco	Rear	URM081	Front Right	81.2	N	
9:12	Remondis	?	Rear	YOT207	Front Right	73.6	N	
9:18	VES	Volvo	Front	BP10AW	Front Left	72.3	N	
9:20	TPI	Dennis	Side	BN56QO	Front Right	79.6	N	
9:24	TPI	Iveco	Rear	BE11HT	Front Right	81.3	N	
9:29	TPI	International	Side	WSK330	Front Right	79.1	N	
9:30	Parramatta Council	Iveco	Rear	AQ97PD	Front Right	75.5	N	
9:33	Auburn	International	Rear	WFF981	Front Right	78.8	N	
9:40	TPI	Iveco	Hook	AT92MN	Front Left	75.4	Y	
9:42	Sydney Waste	Iveco	Rear	ZGJ863	Front Right	72	N	
9:43	VES	Volvo	Front	BI54ZO	Front Right	71.3	N	
9:45	Burwood	Iveco	Side	AW67CF	Front Right	71.9	Y	
9:49	Sydney Waste	Mitsubishi	Rear	XPL658	Front Left	70.8	N	small
9:50	VES	Volvo	Rear	AZ41AD	Front Left	71.1	Y	
9:51	TPI	Iveco	Side	AR10LS	Front Right	75	N	
9:53	TPI	Iveco	Side	AR09LS	Front Right	82.7	N	
9:56	Auburn	Isuzu	Rear	AB90AN	?	76.8	N	
9:58	TPI	Iveco	Side	AR11LS	Front Right	76.8	N	
10:03	TPI		Hook	BF15LP	Front Right	78.5	N	
10:04	VES	Iveco	Side	AA66JF	Front Right	78.6	N	
10:07	VES	Iveco	Side	AA63JF	Front Right	83.3	N	
10:10	URM	Iveco	Hook	URM093	Front Right	80.4	N	
10:12	JJ Richards & Sons	Iveco	Rear	AP73YU	Front Right	78.1	N	
10:14	VES	Iveco	Side	AG66LI	Front Right	78.9	N	
10:14	Auburn	Iveco	Side	AY88AM	Front Right	74.9	Y	
10:17	TPI	Dennis	Side	BN06VM	Front Right	78.6	N	
10:19	VES	Iveco	Rear	BD95ZZ	Front Right	73.5	N	
10:20	TPI	Iveco	Side	AR38AI	Front Right	85.2	N	
10:22	VES	Volvo	Front	AW36CB	Front Right	80.4	N	
10:23	TPI	Iveco	Side	AR22LS	Front Right	74.5	Y	
10:25	TPI	Iveco	Rear	BE15HT	Front Right	78.7	N	
10:27	TPI	Dennis	Side	BN31GB	Front Right	78.7	N	
10:28	TPI	Iveco	Side	AR49AI	Front Right	77.1	N	
10:29	TPI	Dennis	Side	BN30GB	Front Right	73.2	Y	
10:30	VES	Iveco	Side	YPY937	Front Right	76.6	N	
10:30	VES	Mitsubishi	Front	AF26TL	Front Right	73.1	Y	
10:31	VES	Hino	Rear	YUQ986	Front Left	73.4	Y	
10:32	URM	Iveco	Rear	AE30CD	Front Right	77.5	N	
10:33	TPI	Iveco	Side	BE74KO	Front Right	77	N	
10:34	VES	Iveco	Side	AC56XB	Front Right	80.2	N	
10:36	Sydney Waste	International	Rear	BK34WI	Front Right	74.5	Y	
10:40	TPI	Iveco	Side	BE21KN	Front Right	78.1	N	

Time	Company	Make	Lift Type	Registration	Exhaust Location	L _A Max (dBA)	Impeded Movement	Comments
10:45	VES	Isuzu	Rear	BN04VS	Front Right	73.2	N	small
10:46	VES	Iveco	Side	AA76JG	Front Right	75.4	Y	
10:47	TPI	Iveco	Rear	AR97WK	Front Right	71.2	Y	
10:49	VES	Iveco	Rear	AA52WJ	Front Right	76.3	Y	
10:51	TPI	Iveco	Side	BE93DJ	Front Right	73.4	Y	
10:54	JJ Richards & Sons	Iveco	Front	BH77MA	Front Right	77	N	
10:57	JJ Richards & Sons	Iveco	Rear	AB58WT	Front Right	84.9	N	
11:06	Auburn	Iveco	Side	AY90AM	Front Right	77.8	N	
11:14	Waste Resources	?	Hook	UXC834	Front Left	76	N	
11:18	TPI	Iveco	Side	AR48AI	Front Right	82.8	N	
11:19	VES	Volvo	Hook	DCS069	Front Right	74.7	N	
11:25	Auburn	Hino	Sweeper	AU80YR		72.3	N	
11:29	Auburn	Isuzu	Rear	AB90AN	Front Left	73.9	N	small
11:30	TPI	Iveco	Side	BE73KP	Front Right	79	N	
11:31	Remondis	Volvo	Front	ZBN571	Front Right	75.4	Y	
11:32	Watts Waste	Isuzu	Rear	RTJ609	Front Left	72	N	
11:33	Remondis	Mitsubishi	Front	AY73LY	Front Right	81.7	N	