



**VEOLIA (AUSTRALIA) PTY LTD**

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**Clyde Waste Transfer Terminal**

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**Odour Audit XLI**

**Final Report**

**July 2023**

**THE ODOUR UNIT PTY LTD**

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**Project Number:** N1473

Report Revision		
Revision Number	Date	Description
Initial Draft Report	22.12.2023	Pending documentation from Client
Draft Report	02.12.2024	Draft report issued to the Client
Final Report	11.02.2024	Final report issued to the Client
Report Preparation		
<b>Report Prepared By:</b>	<b>Reviewed and Approved By:</b>	
		
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<b>Report Title:</b> Veolia (Australia) Pty Ltd Clyde Waste Transfer Terminal – Odour Audit XLI		

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**LIST OF ABBREVIATIONS AND DEFINITIONS**

<b>FAOA</b>	Field Ambient Odour Assessment
<b>HCS</b>	Hydrometric Consulting Services
<b>the Draft OEMP</b>	The draft version of the <i>Operational Environmental Management Plan</i> dated 6 November 2020
<b>the February 2010 OMP</b>	Odour Management Plan dated February 2010
<b>the Odour Audit</b>	Odour Audit XLI covering the period between 21 December 2022 and 5 July 2023
<b>the September 2017 Container Preparation Document</b>	Waste container preparation requirements for the Clyde TT
<b>the September 2017 NSW RR Container Document</b>	<i>NSW Resource Recovery – Container Maintenance</i> dated 15 September 2017
<b>the Clyde TT</b>	Veolia Clyde Transfer Terminal
<b>TOU</b>	The Odour Unit Pty Ltd
<b>TTB</b>	Transfer Terminal Building
<b>Veolia</b>	Veolia (Australia) Pty Ltd

**UNITS OF MEASUREMENTS**

<b>°C</b>	degrees Celsius
<b>m/s</b>	metres per second

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# 1 INTRODUCTION

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The Odour Unit Pty Ltd (**TOU**) was commissioned by Veolia (Australia) Pty Ltd (**Veolia**) to undertake the forty-first (**XLI**) Odour Audit at the Clyde Transfer Terminal (the **Clyde TT**). The visit for Odour Audit XLI was undertaken on 5 July 2023 and is part of an ongoing six-monthly odour audit surveillance program that has been completed since the commissioning of the forced air extraction system at the Clyde TT.

## 1.1 ODOUR AUDIT PERIOD

Odour Audit XLI covers the period between 21 December 2022 and 5 July 2023 (the **Odour Audit**).

## 1.2 ODOUR AUDIT REQUIREMENTS

The Odour Audit requirements originate from the *Conditions of Consent – 48(f)* and are outlined as follows:

*“48. The Odour Management Plan must address, but is not necessarily limited to, the following issues:*

*(f) An odour audit program which provides for a comprehensive odour audit of the premises and nearby commercial and residential areas, by an independent, appropriately qualified and experienced person, to be conducted 3-monthly for the initial 24 months of receiving un-containerised waste at the terminal, 3-monthly for the 12 months following commissioning the odour control system subject to MOD-133-11-2006, and 6-monthly thereafter, unless otherwise approved in writing by the Director-General.”*

As with previous odour audits, Odour Audit XLI focused on issues relating to general housekeeping, fugitive odour emissions from the transfer building, ground level odour impacts, meteorological monitoring, complaints handling, and actions on past odour audit recommendations. Specifically, the Odour Audit approach included:

- A general inspection and smoke testing of the transfer building;
- The inspection of the container packing area and site access roads;
- The examination of the complaint register;
- The review of the on-site meteorological data log and equipment maintenance/calibration;
- The analysis of relevant documentation relating to odour management; and
- The undertaking of an off-site downwind Field Ambient Odour Assessment (**FAOA**) survey.

### 1.3 PREVAILING WEATHER CONDITIONS

At the time of the Odour Audit visit, the prevailing weather conditions were light to moderate (2.0 – 4.0 metres per second (**m/s**)) wind speeds with the local wind direction blowing predominantly from the west-northwest. The skies lightly covered and the ambient temperature during the Odour Audit visit was between 17 and 21 degrees Celsius (**°C**) during the Odour Audit visit. No rainfall was observed during the Odour Audit visit.

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## 2 ODOUR AUDIT FINDINGS

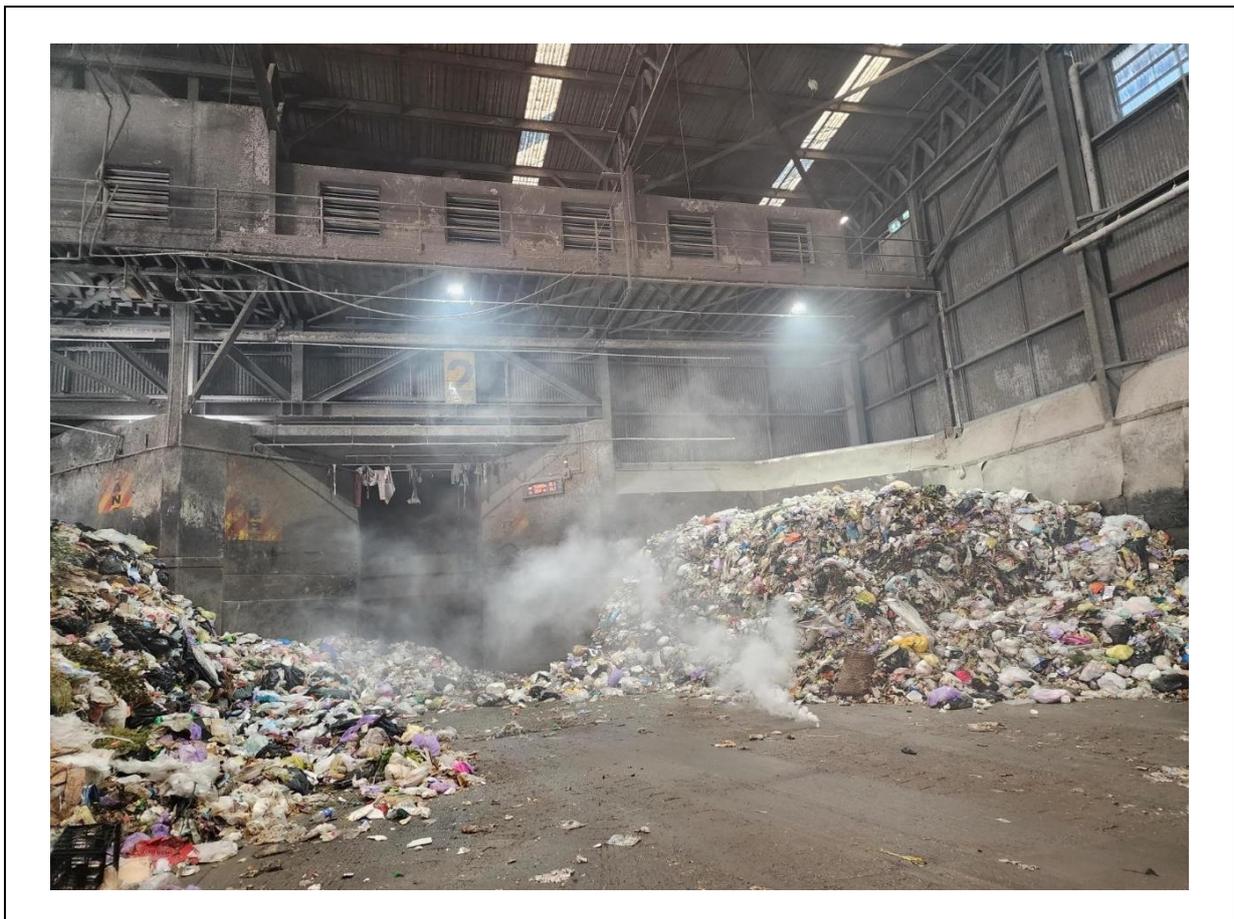
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### 2.1 ASSESSMENT OF GENERAL HOUSEKEEPING

#### 2.1.1 Transfer Terminal Building

During the Odour Audit visit, there were approximately 140 tonnes of waste on the floor. This tonnage is within the normal operating range of the Transfer Terminal Building (TTB). The TTB floor area not covered by waste material was observed to be reasonably clean, with little evidence of leachate or aged material. The general housekeeping procedures of the TTB were good, as found during several truck-unloading sequences. It was also observed that the TTB's front-end loaders cleared the floor area of waste on a regular basis, minimising the exposed area of waste.

As with previous audits, and consistent with TOU's experience at other waste transfer stations, there was a weak to distinct level of odour observed within the TTB. A photo of the waste on the floor as found during the Odour Audit visit is shown in Photo 2.1.



**Photo 2.1** – TTB waste on-floor as found on 5 July 2023 (during a smoke test)

#### 2.1.2 Container Packing Area and Site Roadways

The container packing area and site roadways were found to be clean and well managed with no evidence of waste or exposed leachate. Like previous odour audits,

the container compacting/train packing area had a weak to distinct odour that was intermittently detectable but was confined to this area only (refer to **Appendix B** for FAOA results). TOU was advised by a Veolia personnel that one of the two compactors were in operation at the time of the Odour Audit visit. The general housekeeping around this area was observed to be maintained to a high quality, with no evidence to suggest otherwise.

As with previous Odour Audits, the containers are cleaned off-site at Veolia's Woodlawn Bioreactor Facility before being returned to the Clyde TT. The weight of each container is monitored to determine if there is any waste that has not been removed completely from each container, which in turn reduces the likelihood of the containers contributing to the Clyde TT's odour levels.

### **2.1.2.1 Container Management and Maintenance**

Based on previous discussions with the Veolia team and observations made during the visit, the Odour Audit finds that Veolia continues to implement the policies and procedures as outlined in the following documents:

- The container management and maintenance procedures titled *NSW Resource Recovery – Container Maintenance* dated 15 September 2017 (the **September 2017 NSW RR Container Document**), which details the following:
  - The design of the containers;
  - The maintenance and management of the activated carbon filter retrofitted to the containers;
  - The container management procedure; and
  - The container maintenance procedure.
- The waste container preparation requirements for the Clyde TT (the **September 2017 Container Preparation Document**), which details the following:
  - The inspections and actions to be undertaken by operators to enable containers to be prepared to an acceptable standard;
  - The steps to be undertaken should a damaged container be identified; and
  - The steps to be undertaken should a leaking container be identified.

### **2.1.3 Odour Management Plan**

As per the Odour Management Plan dated February 2010 (the **February 2010 OMP**) for the Clyde TT, following the compaction of waste, all filled containers are entirely sealed and remain so while at the Clyde TT. All containers used are required to be in good condition, and unused/returned containers adequately clean. The Odour Audit finds that this continues to be current practice at the Clyde TT. A view of the condition of the container area as found on 21 December 2022 is shown in **Photo 2.2**.



**Photo 2.2** – A view of the container area as found on 5 July 2023

#### **2.1.4 Odour Extraction System Maintenance**

The service documentation for the maintenance of the odour extraction system was supplied and reviewed as part of the Odour Audit (refer to **Appendix A**). The service logs were provided covering the period between December 2022 to July 2023.

Each service log provided to the Odour Audit indicated that the required inspection and maintenance works were taking place by a suitable service contractor, and the odour extraction system overall was operating efficiently. The service logs during this period noted that all the necessary support works such as cleaning filters, checking the fan belts and unit operations, greasing bearings, component replacement, and other routine preventative maintenance works were being inspected and undertaken.

Given the above and based on the positive results obtained for the smoke testing, odour complaints register, and the FAOA survey conducted as part of the Odour Audit visit, it appears that the current operation of the odour extraction system is satisfactory.

#### **2.1.5 Odour Management Procedures/Plan**

The Odour Management Procedures (formerly known as the Odour Minimising Procedures) continue to be regularly reviewed at toolbox meetings, and contemporary issues/recommendations are raised with all staff members at these meetings.

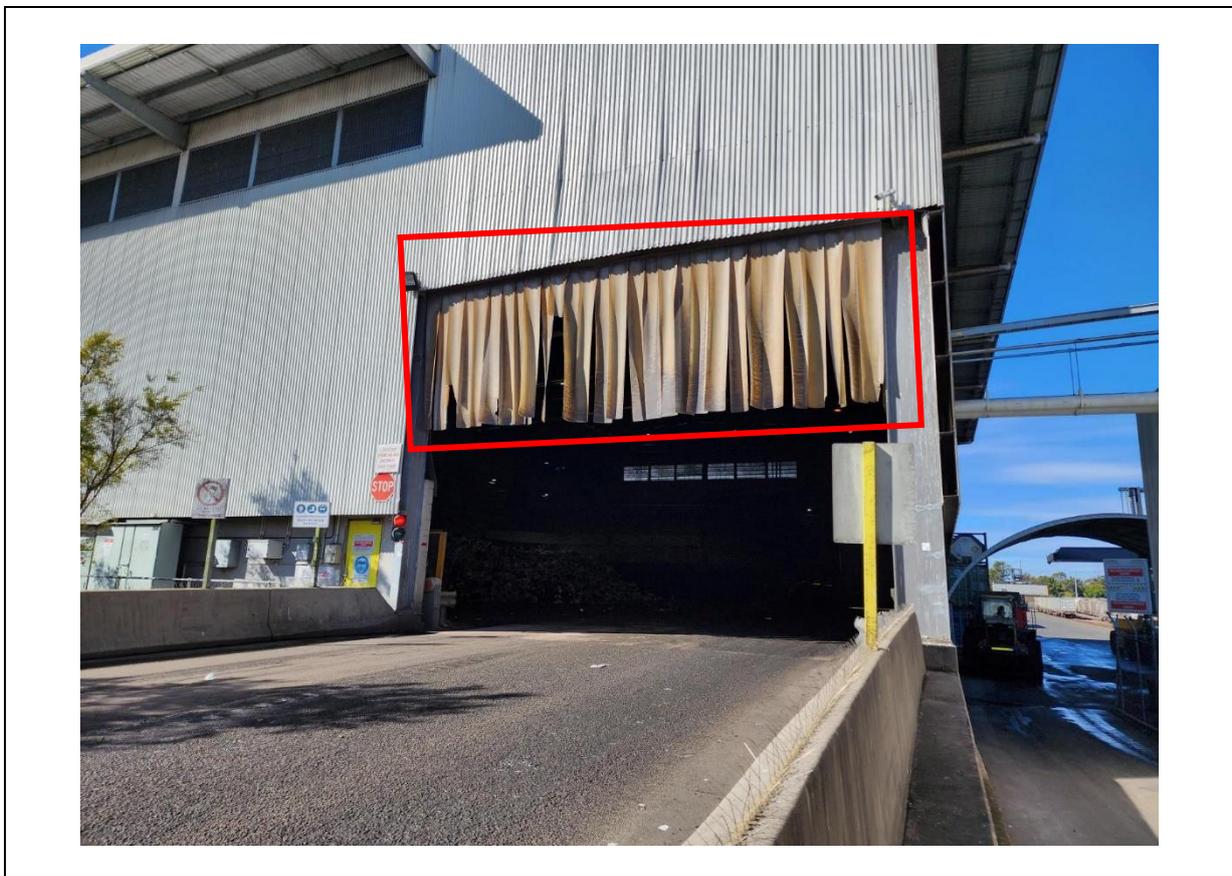
Veolia has advised The Odour Audit that the February 2010 OMP is still in the process of being reviewed and updated. However, TOU was provided a copy of the draft *Operational Environmental Management Plan* for the Clyde TT dated 6 November 2020 (the **Draft OEMP**). Upon finalisation of the Draft OEMP and consolidation of all referenced documents, the Odour Audit will review this document in its entirety. Nevertheless, the annual review and commitment to continuous improvement to the operational and environmental management procedures and practices at the Clyde TT is endorsed by the Odour Audit.

### **2.1.6 Transfer Terminal Building**

The Odour Audit inspected the fixed metal plates retrofitted along the TTB breezeways in December 2013. All metal plates were found to be intact and in good condition around the TTB. All doors and roller shutters of the TTB were found to be shut at the time of the Odour Audit, reducing the likelihood of odour impacts detected off-site. The louvres on the end walls of the TTB were observed to be permanently shut. The yellow door on the southeastern side of the receival hall has exposed area that could lead to fugitive emission of odour.

### **2.1.7 Truck Entrance Plastic Strips**

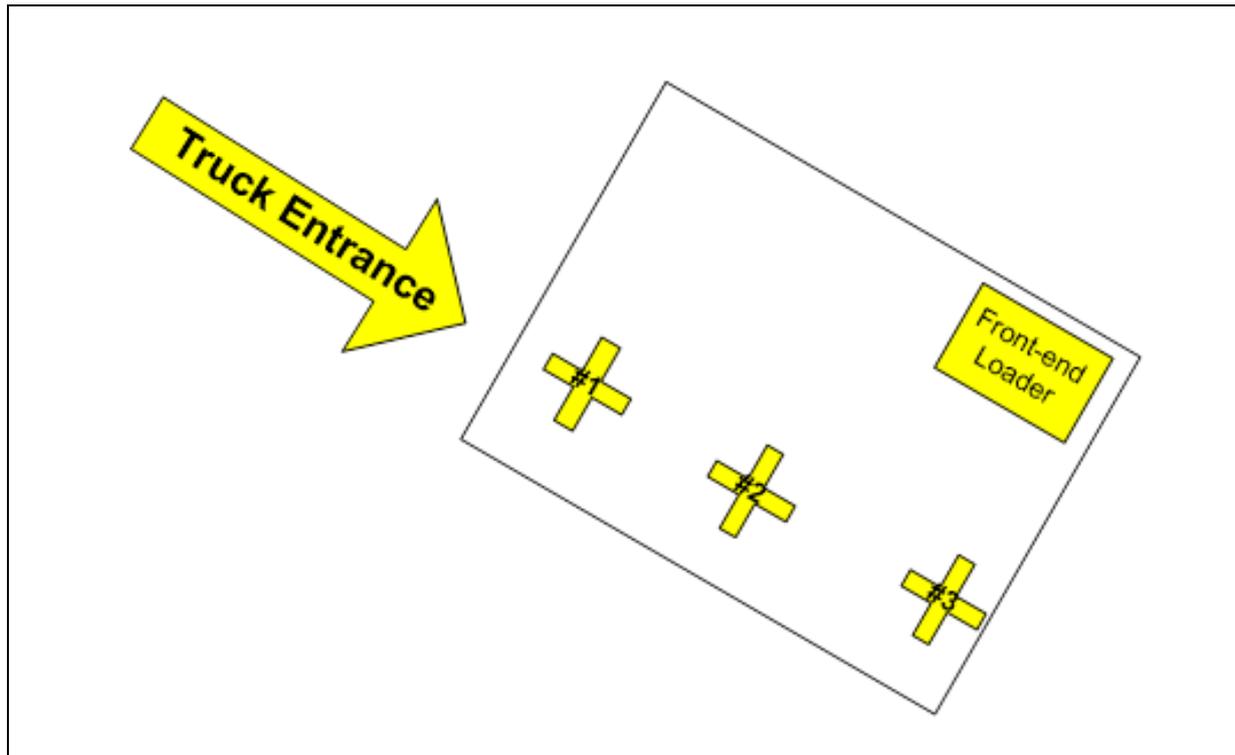
The truck entrance plastic strips of the TTB, used to reduce odour escaping through the opening, were found to be superficially damaged and in a state to function and effectively reduce air movement at the top section of the truck entrance (refer to **Photo 2.3**).



**Photo 2.3** – A view of the truck entrance plastic strips as found on 5 July 2023

### 2.1.8 Smoke Testing

As per previous audits, smoke testing was carried out within the TTB to assist in determining the effectiveness of the forced air extraction system, as well as the extent to which the TTB has been sealed from leaks. As per previous audits, smoke was released from within the TTB at three points within the TTB. **Figure 2.1** shows the three points where the smoke was released within the TTB. **Photo 2.4** shows smoke testing at the truck entrance of the TTB, which reflects an additional test location to the normal smoke testing release points shown in **Figure 2.1**.



**Figure 2.1** – Smoke testing release points within the TTB on 5 July 2023



**Photo 2.4** – A view of the truck entrance plastic strips during smoke testing on 5 July 2023

### **2.1.8.1 Smoke Testing Results**

#### **Smoke Testing Point #1**

The smoke released at this point initially moved horizontally inwards and gradually rose towards the extraction system. Visible smoke extraction at the overhead capture points was evident during the smoke testing at this point.

#### **Smoke Testing Point #2**

The smoke released at this point gradually rose towards the roof and then towards the extraction system.

#### **Smoke Testing Point #3**

The smoke released at this point revealed a similar result to that documented for smoke testing point #2.

## 2.2 ODOUR COMPLAINTS HANDLING AND METEOROLOGICAL DATA

### 2.2.1 Odour Complaints Handling

As advised by Veolia personnel, there continue to have been no complaints recorded in the Clyde TT's complaints register since March 2012.

### 2.2.2 Meteorological Data

The meteorological data provided to the Odour Audit, covering the period of between December 2022 and July 2023, was inspected and found to be in good order. As found in previous Odour Audits, the observations were provided in daily 15-minute intervals and included all parameters necessary to develop a meteorological dataset for odour dispersion modelling.

As indicated via service records completed by Hydrometric Consulting Services (**HCS**) supplied by Veolia to the Odour Audit, the weather station continues to remain located in an accessible area with the solar panel and components regularly cleaned, and installation sprayed periodically for insects and trimming of nearby vegetation as required to ensure no overgrowth immediately around the weather station pole. Overall, HCS indicated that the weather stations were operating well, and any identified issues were rectified. The weather data calibration and service reports by HCS are appended as **Appendix B**.

## 2.3 FIELD AMBIENT ODOUR ASSESSMENT METHODOLOGY

At present, no Australian Standard exists for field-based ambient odour assessment surveys. Consequently, TOU utilises a method for assessing the ground-level impacts of odour emissions using a modified version of the German Standard VDI 3940 (1993) – *'Determination of Odorants in Ambient Air by Field Inspections'*.

Field-based ambient odour surveys are considered a valuable odour impact assessment tool as previous experience with ambient odour sampling and subsequent olfactometry testing suggests that accurate and useful ambient odour concentration data is difficult to obtain. Therefore, TOU has adopted a more practical approach based on the field measurement of odour intensity. With this method, calibrated and experienced odour specialists traverse the downwind surrounds of odour sources in a strategically mapped pattern, assessing the presence, character and intensity of any odours encountered and recording these observations along with wind speed and direction.

An ambient odour assessment was performed on 5 July 2023 between 1315 hrs and 1416 hrs. The FAOA survey was undertaken at strategic off-site locations during the Odour Audit due to prevailing meteorological conditions. The ambient odour assessment focus was off-site, as required by the Conditions of Consent on ".....*nearby commercial and residential areas.....*" (Section 48 (f)). The TOU assessor firstly determined the wind direction using a Kestrel 4500 Pocket Weather Tracker Anemometer and then assessed upwind and downwind locations of the TTB.

The assessors spent approximately five minutes at each assessment location to gauge the effects of any odour impact. If an odour was detected at a location, the assessors attempted to characterise it. The general aim was to determine the extent of the impact

of odours off-site and rank their intensity. The ranking scale for the German Standard VDI 3940 '*Determination of Odorants in Ambient Air by Field Inspections*' was used for the intensity assessments. The standard's ranking system is based on the following seven-point intensity scale, as shown in **Table 2.1**.

<b>Table 2.1 – VDI 3882 Odour Intensity Categories</b>		
<b>Odour Strength</b>	<b>Intensity Rank (code)</b>	<b>TOU Interpretation (meaning)</b>
Not detectable	0	No odour detected
Very weak	1	Odour detected but not strong enough to be characterised
Weak	2	Odour is weak but just able to be characterised
Distinct	3	Odour is distinct and easily characterised
Strong	4	Strong odour detectable
Very Strong	5	If offensive, the observer may consider moving from the area
Extremely Strong	6	Odour is sufficiently over-powering that assessor moves from the area

### **2.3.1 Field Ambient Odour Assessment – Results**

The results of the FAOA survey conducted during the Odour Audit found that whilst intermittent odours were detected on-site, no odours were detectable off-site that could be linked back to the Clyde TT and its activities. This is a good outcome and reflects the findings from previous odour audits. The field log sheets, and visual survey plot are appended as **Appendix C**.

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## 3 RECOMMENDATIONS/FOLLOW-UP ACTIONS

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### 3.1 PREVIOUS AUDIT ACTIONS

The following list provides an outline of the last December 2022 odour audit actions and status as of the Odour Audit:

- **Previous Audit Action 1:** *Action 1 – Continue with the on-going review and commitment to continuous improvement of the Draft OEMP and referenced documents.*
- **Status:** On-going and will be reassessed in the next odour audit (refer to **Section 3.7**).

### 3.2 TRANSFER TERMINAL BUILDING

All metal plates were found to be intact and in good condition around the TTB. All doors and roller shutters of the TTB were found to be shut at the time of the Odour Audit, reducing the likelihood of odour impacts detected off-site. The louvres on the end walls of the TTB were observed to be permanently shut. The truck entrance plastic strips were superficially damaged, but functional and effective. The yellow door on the southeastern side of the receival hall requires plastic strips to mitigate fugitive odour emission. Overall, the TTB was found to be well-managed.

Based on the findings in the Odour Audit, the following action is recommended:

- **Install plastic strips on the yellow door on the southeast of the receival hall.**

### 3.3 COMPACTOR AREA

The general housekeeping around the compactor area was observed to be of high quality, with no evidence to suggest otherwise. As with previous Odour Audits, the container compacting/train packing area had a Weak (Odour Intensity 2) to Distinct (Odour Intensity 3) odour that was intermittently detectable but was found to be confined to this area only.

Based on the findings in this Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

### 3.4 ODOUR EXTRACTION SYSTEM

The service logs indicate that all required maintenance works on the odour extraction system since the previous December 2022 odour audit have been adequately undertaken, and the odour extraction system is operating in a satisfactory condition.

Based on the findings in the Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

### 3.5 WEATHER STATION

The dataset obtained from the weather station was found to be adequate. Moreover, the calibration and service reports from HCS indicate that all maintenance to the weather station and required calibrations were carried out as needed.

Based on the findings in the Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

### 3.6 OFF-SITE ODOUR IMPACTS

The results of the FAOA survey conducted during the Odour Audit found that no odours were detectable off-site that could be linked back to the Clyde TT and its activities.

Based on the findings in the Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

### 3.7 ODOUR MANAGEMENT PROCEDURES/PLAN

At the timing of the writing of the Odour Audit, the February 2010 OMP was last updated over eight years ago. Given the previous update, it is suggested that as part of good practice that Veolia reviews and update the February 2010 OMP to ensure it continues to reflect the odour management procedures implemented and followed at the Clyde TT. TOU was provided a copy of the Draft OEMP. Upon finalisation of the Draft OEMP and consolidation of all referenced documents, the Odour Audit will review this document in its entirety. Nevertheless, the annual review and commitment to continuous improvement to the operational and environmental management procedures and practices at the Clyde TT is endorsed by the Odour Audit.

Based on the findings in this Odour Audit, the following action/s is recommended:

- **Action 1 – Continue with the on-going review and commitment to continuous improvement of the Draft OEMP and referenced documents.**

### 3.8 CONCLUDING REMARK

Overall, this Odour Audit found that the operation and maintenance of the odour management system at the Clyde TT was excellent. There was no evidence to suggest that significant fugitive odour emission release from the Clyde TT is occurring.

The next Odour Audit is due in **February 2024**.



**VEOLIA (AUSTRALIA) PTY LTD**

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**Clyde Waste Transfer Terminal**

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**Odour Audit XLI**

**Appendices**

**July 2023**



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**APPENDIX A:**  
ODOUR EXTRACTION SYSTEM SERVICE REPORTS  
(DECEMBER 2022 – JULY 2023)

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**CUSTOMER JOB NO. 33254 - 3516 - Kyle Dempsey  
Preventative Maintenance**

**Project Name** Monthly Maintenance

**Date Created** 21/12/2022

**PO #** 7100410672

**Site Details**

**Name** Veolia Clyde  
**Address** Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142  
**Contact** Rod Jones  
**Telephone**  
**Mobile** 0437 167 211  
**Email** rod.jones@veolia.com

**Customer Details**

**Name** Veolia Environmental Services P/L  
**Address** Level 4, 65 Pirrama Road  
Pymont NSW 2009  
**Contact** Bob Manevski  
**Telephone** (02) 9841 2802  
**Mobile** 0412 275 133  
**Email** bob.manevski@veolia.com

**Work Requested**

Attend Site and carry out maintenance for the month of January

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (06/01/2023) - Work Note**

Firstly conducted maintenance on AC systems serving the main admin office.  
This includes 7 systems ranging from wall split systems to Room Air Conditioners.  
Also included is 1 wall split system serving weighbridge office.

Filters are all okay

Condensate drains have been flushed and cleared

Checked operations of systems in full cooling mode and high fan speed

Checked electrical components

Checked for faults and/or damage to units

Checked airflows are sufficient

Checked room temperatures are matching setpoint.

All tested okay.

Conducted maintenance on 2 extraction air fans serving the compactor pit.

Belts, pulleys and bearings are in good condition

Cleaned off dust and debris from motors

Greased fan shaft bearings

Checked condition of VSDs and cleaned off dust and debris.

Checked over parameters and data of drives.

All tested okay.

Equilibrium Air Conditioning Services Pty Ltd  
ABN 51 844 035 531

Telephone: (02) 9439 4822  
[service@egac.com.au](mailto:service@egac.com.au)

PO Box 7996  
Norwest NSW 2153



**CUSTOMER JOB NO. 33254 - 3516 - Kyle Dempsey  
Preventative Maintenance**

Equilibrium Air Conditioning Services Pty Ltd

ABN 51 844 035 531

Telephone: (02) 9439 4822

[service@egac.com.au](mailto:service@egac.com.au)

PO Box 7996

Norwest NSW 2153



**CUSTOMER JOB NO. 33254 - 3516 - Kyle Dempsey  
Preventative Maintenance**

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

**Customer:**

Rod Jones

A handwritten signature in black ink, appearing to be "Rod Jones", written over a horizontal line.

Print Name

Signature

**Technician:**

Kyle Dempsey

A handwritten signature in black ink, appearing to be "Kyle Dempsey", written over a horizontal line.

Print Name

Signature

**Equilibrium Air Conditioning Services Pty Limited**  
 Unit 7, 38 Brookhollow Ave  
 Norwest, NSW 2153  
 Ph: 02 94394822 Fax:  
 ABN 51 844 035 531

**Asset Record - Job No. 33254**  
**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 06/01/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	06/01/2023		Pass
Notes	Checked condition of VSD, checked over parameters and data, cleaned off dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSFDURN	0BLAPAJFA00098 V	Meeting room	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3253	Change room RAC	Changeroom	TECO	TWW16CFGG		Change room	06/01/2023		Pass

**Equilibrium Air Conditioning Services Pty Limited**  
 Unit 7, 38 Brookhollow Ave  
 Norwest, NSW 2153  
 Ph: 02 94394822 Fax:  
 ABN 51 844 035 531

**Asset Record - Job No. 33254**  
**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 06/01/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.							
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	06/01/2023	Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.							

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	06/01/2023		Pass
Notes	Belts, pulleys and bearings are in good condition, cleaned off dust and debris from motor, greased fan shaft bearings, checked condition of VSD and cleaned. All tested okay.								
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	06/01/2023		Pass
Notes	Belts, pulleys and bearings are in good condition, cleaned off dust and debris from motor, greased fan shaft bearings, checked condition of VSD and cleaned. All tested okay.								

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	06/01/2023		Pass
Notes	Checked condition of VSD, checked over parameters and data, cleaned off dust and debris. All tested okay.								

**Description Of Work**

Attend Site and carry out maintenance for the month of January

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02

- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (06/01/2023) - Work Note**

Firstly conducted maintenance on AC systems serving the main admin office.  
This includes 7 systems ranging from wall split systems to Room Air Conditioners.  
Also included is 1 wall split system serving weighbridge office.

Filters are all okay

Condensate drains have been flushed and cleared

Checked operations of systems in full cooling mode and high fan speed

Checked electrical components

Checked for faults and/or damage to units

Checked airflows are sufficient

Checked room temperatures are matching setpoint.

All tested okay.

Conducted maintenance on 2 extraction air fans serving the compactor pit.

Belts, pulleys and bearings are in good condition

Cleaned off dust and debris from motors

Greased fan shaft bearings

Checked condition of VSDs and cleaned off dust and debris.

Checked over parameters and data of drives.

All tested okay.

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ABN 51 844 035 531

**Asset Record - Job No. 33254**  
**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 06/01/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Comments / Recommendations**

--

Technician (Print Name):

Kyle Dempsey



Technician (Signature):

Licence No.

L141692

Customer (Print Name):

Rod Jones



Customer (Signature):

Customer (Signature):

**Equilibrium Air Conditioning Services Pty Limited**  
 Unit 7, 38 Brookhollow Ave  
 Northwest, NSW 2153  
 Ph: 02 94394822 Fax:  
 ABN 51 844 035 531

**Asset Record - Job No. 33340**

**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 20/02/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass/
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	20/02/2023		Pass

**Asset Register - Air-Cooled DX units / Split Systems**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass/
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	20/02/2023		Pass
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	20/02/2023		Pass
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	20/02/2023		Pass
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSSFDURN	0BLAPAJFA00098	Meeting room	20/02/2023		Pass
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	20/02/2023		Pass
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	20/02/2023		Pass
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	20/02/2023		Pass

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass/
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	20/02/2023		Pass
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	20/02/2023		Pass

**Equilibrium Air Conditioning Services Pty Limited**  
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Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33340**  
Veolia Clyde  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 20/02/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	20/02/2023		Pass

**Description Of Work**

Attend Site and carry out maintenance for the month of Feb 2023  
Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Dylan Mengel (20/02/2023) - Work Note**

9x split system air conditioner's.  
Washed filters  
Flushed drains and tightened electrical terminals.  
Tested on full cooling and heating modes to ensure set-point is reached.  
Tested on high fan speed to confirm airflow is good. All tested ok.  
2x extraction fans.  
Checked belts tension and for damage.  
Belts are ok.  
Greased motor and fan bearings  
Checked VSD's and general operations of extraction fans.



Equilibrium Air Conditioning Services Pty Ltd  
ABN 51 844 035 531



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Norwest NSW 2153

**CUSTOMER JOB NO. 33340 - 3636 - Dylan Mengel  
Preventative Maintenance**

**Project Name** Monthly Maintenance

**Date Created** 06/02/2023

**PO #** 7100410672

**Site Details**

**Name** Veolia Clyde  
**Address** Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142  
**Contact** Rod Jones  
**Telephone**  
**Mobile** 0437 167 211  
**Email** [rod.jones@veolia.com](mailto:rod.jones@veolia.com)

**Customer Details**

**Name** Veolia Environmental Services P/L  
**Address** Level 4, 65 Pirrama Road  
Pyrmont NSW 2009  
**Contact** Bob Manevski  
**Telephone** (02) 9841 2802  
**Mobile** 0412 275 133  
**Email** [bob.manevski@veolia.com](mailto:bob.manevski@veolia.com)

**Work Requested**

Attend Site and carry out maintenance for the month of Feb 2023  
Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Dylan Mengel (20/02/2023) - Work Note**

9x split system air conditioner's.  
Washed filters  
Washed drains and tightened electrical terminals.  
Tested on full cooling and heating modes to ensure set-point is reached.  
Tested on high fan speed to confirm airflow is good. All tested ok.  
2x extraction fans.  
Checked belts tension and for damage.  
Belts are ok.  
Greased motor and fan bearings  
Checked VSD's and general operations of extraction fans.  
All tested ok.

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ABN 51 844 035 531

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[service@eqac.com.au](mailto:service@eqac.com.au)

PO Box 7996  
Norwest NSW 2153



**CUSTOMER JOB NO. 33340 - 3636 - Dylan Mengel  
Preventative Maintenance**

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:

Rod Jones

Print Name

A handwritten signature in black ink, appearing to read "Rod Jones", written over a horizontal line.

Signature

Technician:

Dylan Mengel

Print Name

A handwritten signature in black ink, appearing to read "Dylan Mengel", written over a horizontal line.

Signature

**Equilibrium Air Conditioning Services Pty Limited**

Unit 7, 38 Brookhollow Ave  
 Norwest, NSW 2153  
 Ph: 02 94394822 Fax:  
 ABN 51 844 035 531

**Asset Record - Job No. 33453**

**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 23/03/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	23/03/2023		Pass
Notes: Checked condition and parameters of VSD. Cleaned off sir and debris. All tested okay.									

**Asset Register - Air-Cooled DX units / Split Systems**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	23/03/2023		Pass
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	23/03/2023		Pass
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	23/03/2023		Pass
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSFS DURN V	0BLAPAJFA00098	Meeting room	23/03/2023		Pass
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	23/03/2023		Pass
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	23/03/2023		Pass
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	23/03/2023		Pass

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	23/03/2023		Pass
Notes: - Had replaced belts on pulley, after cracks appeared. Had greased fan motor and fan shaft bearings. Cleaned over motor of dust and debris. Pulley and bearings in good condition. All tested okay.									

**Equilibrium Air Conditioning Services Pty Limited**

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**Asset Record - Job No. 33453**

**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 23/03/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	23/03/2023		Pass
Notes - Had replaced belts on pulley, after cracks appeared. Had greased fan motor and fan shaft bearings. Cleaned over motor of dust and debris. Pulley and bearings in good condition. All tested okay.									

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	23/03/2023		Pass
Notes Checked condition and parameters of VSD. Cleaned off sif and debris. All tested okay.									

**Description Of Work**

Attend Site and carry out maintenance for the month of March

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (13/03/2023) - Work Note**

Attended site to conduct March maintenance  
 Firstly conducted maintenance on 2 extraction fans above the compactor pit.

**Equilibrium Air Conditioning Services Pty Limited**

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**Asset Record - Job No. 33453**

**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 23/03/2023

**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Isolated fans at switchboard and isolated alarm.

Greased fan motor and fan shaft bearings

Cleaned over VSDs and motors of dust and debris.

Found on fan 1 that belts had cracked.

Used spare belts on site to replace damaged belts.

Removed housing for pulleys

Removed old belts

Placed new belts on pulleys.

Belt tension was too tight, had to adjust motor position.

Checked alignment of pulleys once motor was moved.

Placed housing back over the belts/pulleys.

Switched power on back at the switchboard and monitored fan performance.

Turned alarm back on after fans were operating normally.

Will need to order a new set of belts as spares on site.

Conducted maintenance on indoor wall split units serving the administration office and weighbridge office.

Cleaned filters

Flushed and cleared drains

Checked operations of each system in full cooling mode and high fan speed

Checked electrical components

Checked for faults and/or damage to units.

Fan barrels on kitchen AC and comms room AC are getting dirty and blocked up this is affecting airflow. Will need to clean out on next maintenance.

Due to wet weather conditions could not conduct maintenance on outdoor units serving administration office and weighbridge office.

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**Asset Record - Job No. 33453**  
**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 23/03/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Comments / Recommendations**

Empty box for comments and recommendations.

**Technician (Print Name):** \_\_\_\_\_

**Licence No.**

**Customer (Print Name):** \_\_\_\_\_

**Rod Jones**

**Technician (Signature):** \_\_\_\_\_

L141692

**Customer (Signature):** \_\_\_\_\_



ABN 51 844 035 531

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Norwest NSW 2153

**CUSTOMER JOB NO. 33453 - 3750 - Kyle Dempsey  
Preventative Maintenance**

**Project Name**

Monthly Maintenance - March

**Date Created**

07/03/2023

**PO #**

7100410672

**Site Details**

<b>Name</b>	Veolia Clyde
<b>Address</b>	Clyde Transfer Terminal 322 Parramatta road Clyde NSW 2142
<b>Contact</b>	Rod Jones
<b>Telephone</b>	0437 167 211
<b>Mobile</b>	rod.jones@veolia.com
<b>Email</b>	

**Customer Details**

<b>Name</b>	Veolia Environmental Services P/L
<b>Address</b>	Level 4, 65 Pirrama Road Pymont NSW 2009
<b>Contact</b>	Bob Manevski
<b>Telephone</b>	(02) 9841 2802
<b>Mobile</b>	0412 275 133
<b>Email</b>	bob.manevski@veolia.com

**Work Requested**

Attend Site and carry out maintenance for the month of March

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (13/03/2023) - Work Note**

Ended site to conduct March maintenance

Firstly conducted maintenance on 2 extraction fans above the compactor pit.

Isolated fans at switchboard and isolated alarm.

Greased fan motor and fan shaft bearings

Cleaned over VSDs and motors of dust and debris.

Found on fan 1 that belts had cracked.

Used spare belts on site to replace damaged belts.

Removed housing for pulleys

Removed old belts

Placed new belts on pulleys.

Belt tension was too tight, had to adjust motor position.

Checked alignment of pulleys once motor was moved.

Placed housing back over the belts/pulleys.

Switched power on back at the switchboard and monitored fan performance.

Turned alarm back on after fans were operating normally.

Will need to order a new set of belts as spares on site.

Conducted maintenance on indoor wall split units serving the administration office and weighbridge office.  
Cleaned filters

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**CUSTOMER JOB NO. 33453 - 3750 - Kyle Dempsey  
Preventative Maintenance**

Flushed and cleared drains  
Checked operations of each system in full cooling mode and high fan speed  
Checked electrical components

Checked for faults and/or damage to units.

Fan barrels on kitchen AC and comms room AC are getting dirty and blocked up this is affecting airflow. Will need to  
clean out on next maintenance.

Due to wet weather conditions could not conduct maintenance on outdoor units serving administration office and  
weighbridge office.

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was  
onsite to carry out the above mentioned works.

Customer:

Rod Jones

Print Name

A handwritten signature in black ink, appearing to read "Rod Jones", written over a horizontal line.

Signature

Technician:

Kyle Dempsey

Print Name

A handwritten signature in black ink, appearing to read "Kyle Dempsey", written over a horizontal line.

Signature

**Equilibrium Air Conditioning Services Pty Limited**  
 Unit 7, 38 Brookhollow Ave  
 Norwest, NSW 2153  
 Ph: 02 94394822 Fax:  
 ABN 51 844 035 531

**Asset Record - Job No. 33535**

**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 13/04/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	13/04/2023		Pass

**Asset Register - Air-Cooled DX units / Split Systems**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	13/04/2023		Pass
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	13/04/2023		Pass
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	13/04/2023		Pass
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSFSJDURN	0BLAPAJFA00098	Meeting room	13/04/2023		Pass
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	13/04/2023		Pass
3253	Change room RAC	Changeroom	TECO	TWW16CFCCG		Change room	13/04/2023		Pass
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CUE12PKR	6534700845	Weighbridge office	13/04/2023		Pass

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	13/04/2023		Pass
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	13/04/2023		Pass

**Equilibrium Air Conditioning Services Pty Limited**  
Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33535**  
Veolia Clyde  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 13/04/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	13/04/2023		Pass

**Description Of Work**

Attend Site and carry out maintenance for the month of April

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Marcus Jackson (13/04/2023) - Work Note**

Attended site to carry out inspection and maintenance of A/C system and extraction fans.

Checked operation and condition of all site office units

Cleaned filters

Flushed drains and checked supply temperatures

All ok.

Checked VSD in plantroom for extraction fans

**Equilibrium Air Conditioning Services Pty Limited**  
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Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33535**  
**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 13/04/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

All ok.  
Checked extraction fan belts  
All ok.

**Comments / Recommendations**

**Technician (Print Name):** Marcus Jackson  
**Licence No.** L174342  
**Technician (Signature):** 

**Customer (Print Name):** Rod Jones  
**Customer (Signature):** 



ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153

**CUSTOMER JOB NO. 33535 - 3896 - Marcus Jackson**  
**Preventative Maintenance**

Project Name

Monthly Maintenance

Date Created

03/04/2023

PO # 7100410672

Site Details	
Name	Veolia Clyde
Address	Clyde Transfer Terminal 322 Parramatta road Clyde NSW 2142
Contact	Rod Jones
Telephone	0437 167 211
Mobile	rod.jones@veolia.com
Email	

Customer Details	
Name	Veolia Environmental Services P/L
Address	Level 4, 65 Pirrama Road Pyrmont NSW 2009
Contact	Bob Manevski
Telephone	(02) 9841 2802
Mobile	0412 275 133
Email	bob.manevski@veolia.com

**Work Requested**

Attend Site and carry out maintenance for the month of April

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

cus Jackson (13/04/2023) - Work Note

Attended site to carry out inspection and maintenance of A/C system and extraction fans.  
 Checked operation and condition of all site office units  
 Cleaned filters  
 Flushed drains and checked supply temperatures  
 All ok.  
 Checked VSD in plantroom for extraction fans  
 All ok.  
 Checked extraction fan belts  
 All ok.

ABN 51 844 035 531

Telephone: (02) 9439 4822

[service@eqac.com.au](mailto:service@eqac.com.au)

PO Box 7996

Norwest NSW 2153



CUSTOMER JOB NO. 33535 - 3896 - Marcus Jackson  
Preventative Maintenance

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:	Rod Jones	Print Name	Signature
Technician:	Marcus Jackson	Print Name	Signature

Equilibrium Air Conditioning Services Pty Limited  
Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

Asset Record - Job No. 33599

Veolia Clyde  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

Inspection Date: 02/05/2023  
Contact: Bob Manevski  
Phone: (02) 984 1 2802

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	02/05/2023		Pass
Notes	Checked condition of cooling fan and coil, checked for faults or damage, cleaned off dust and debris. All tested okay.								

**Asset Register - Air-Cooled DX units / Split Systems**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSSSDURN	0BLAPAJFA00098	Meeting room	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	02/05/2023		Pass

Notes	Cleaned filters, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of coil, checked pipework for leaks or damage. All tested okay.							
3285	Weightbridge office wall split AC	Weightbridge office	Panasonic	CUE12PKR	6534700845	Weightbridge office	02/05/2023	Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdo checked pipework for leaks or damage. All tested okay.							

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass/
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	02/05/2023		Pass
Notes	Checked condition of belts/pulleys/bearings, greased motor and fan shaft bearings, cleaned off dust and debris from motor. All tested okay.								
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	02/05/2023		Pass
Notes	Checked condition of belts/pulleys/bearings, greased motor and fan shaft bearings, cleaned off dust and debris from motor. All tested okay.								

**Asset Register - VSD**

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass/
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	02/05/2023		Pass
Notes	Checked condition of cooling fan and coil, checked for faults or damage, cleaned off dust and debris. All tested okay.								

**Description Of Work**

Attend Site and carry out maintenance for the month of May

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02

**Equilibrium Air Conditioning Services Pty Limited**

Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33599**

**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 02/05/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 984 1 2802

- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (02/05/2023) - Work Note**

Arrived on site

Firstly conducted maintenance on 2x extraction fans located above compactor pit.

Isolated power to fans and VSDDs

Checked condition of belts, Pulleys and bearings

Greased motor and fan shaft bearings

Cleaned off dust and debris from motor and VSDDs.

Turned power back on to fans and velocity alarm. All tested okay.

Conducted maintenance on AC systems located in admin office and weighbridge office.

This includes 6 wall split systems and 2 RACs.

Filters have been cleaned

Condensate drains have been flushed

Checked electrical connections and components

Tested systems in heating and cooling modes

Checked for faults and or damage to units.

Checked condition of outdoor coils

Checked pipework for leaks or damage.

All tested okay.





ABN 51 844 035 531

Telephone: (02) 9439 4822

[service@eqac.com.au](mailto:service@eqac.com.au)

PO Box 7996

Norwest NSW 2153

**CUSTOMER JOB NO. 33599 - 3960 - Dylan Mengel  
Preventative Maintenance**

Project Name Monthly Maintenance

Date Created

01/05/2023

PO # 7100410672

Site Details	
Name	Veolia Clyde
Address	Clyde Transfer Terminal 322 Parramatta road Clyde NSW 2142
Contact	Rod Jones
Telephone	0437 167 211
Mobile	rod.jones@veolia.com
Email	

Customer Details	
Name	Veolia Environmental Services P/L
Address	Level 4, 65 Pirrama Road Pymont NSW 2009
Contact	Bob Manevski
Telephone	(02) 9841 2802
Mobile	0412 275 133
Email	bob.manevski@veolia.com

**Work Requested**

Attend Site and carry out maintenance for the month of May

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Work Note**

Arrived on site  
 Firstly conducted maintenance on 2x extraction fans located above compactor pit.  
 Isolated power to fans and VSDDs  
 Checked condition of belts, Pulleys and bearings  
 Greased motor and fan shaft bearings  
 Cleaned off dust and debris from motor and VSDDs.  
 Turned power back on to fans and velocity alarm. All tested okay.  
 Conducted maintenance on AC systems located in admin office and weighbridge office.  
 This includes 6 wall split systems and 2 RACs.  
 Filters have been cleaned  
 Condensate drains have been flushed  
 Checked electrical connections and components  
 Tested systems in heating and cooling modes  
 Checked for faults and or damage to units.  
 Checked condition of outdoor coils  
 Checked pipework for leaks or damage.  
 All tested okay.

ABN 51 844 035 531

Telephone: (02) 9439 4822

[service@eqac.com.au](mailto:service@eqac.com.au)

PO Box 7996

Norwest NSW 2153

**CUSTOMER JOB NO. 33599 - 3960 - Dylan Mengel  
Preventative Maintenance**



For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:

Joe

Print Name

Signature

Technician:

Dylan Mengel

Print Name

Signature

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	08/06/2023		Pass
Notes	Checked condition of VSDs, and cleaned off dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay. - For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSCWKN		Administration office	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay. - For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in cooling mode (comms room), checked for faults and/or damage to unit. All tested okay. - For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.								
3251	Meeting room Wall	Meeting room	Samsung	AR12FSDURN	0BLAPAJFA00098	Meeting room	08/06/2023		Pass

<b>Asset Register - Air-Cooled DX units / Split Systems</b>									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
Notes	AC				V				
Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay.									
- For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.									
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay.								
- For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.									
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in cooling mode, checked for faults and/or damage to unit. All tested okay.								
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay.								
- For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.									
<b>Asset Register - Fans</b>									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	08/06/2023		Pass

Notes	Isolated power, had checked condition of belts/pulleys/bearings, had greased fan motor and fan shaft bearings, had cleaned off dust and debris from fan motor and bearings. All tested okay.						
3880	Extraction Fan-2	Roof plant room	HG	Y315S	Waste area	08/06/2023	Pass
Notes	Isolated power, had checked condition of belts/pulleys/bearings, had greased fan motor and fan shaft bearings, had cleaned off dust and debris from fan motor and bearings. All tested okay.						

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	08/06/2023		Pass
Notes	Checked condition of VSDs, and cleaned off dust and debris. All tested okay.								

**Description Of Work**

Attend Site and carry out maintenance for the month of June

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (08/06/2023) - Work Note**

Firstly conducted maintenance on 2 extraction fans above the compactor pit.

Isolated power

Checked condition of belts/pulleys/bearings

**Equilibrium Air Conditioning Services Pty Limited**

Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33701**

**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 08/06/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Greased fan motor and fan shaft bearings  
Cleaned off dust and debris from fan motor and bearings.  
Checked condition of VSDs, and cleaned off dust and debris. All tested okay.

Conducted maintenance on AC units serving admin office and weighbridge office.  
7 units included.  
Filters have been cleaned  
Condensate drains have been cleared  
Checked electrical connections and components  
Checked operations of systems in heating mode  
Checked for faults and/or damage to units. All tested okay.

For outdoor units  
Checked electrical connections and components  
Checked pipework for leaks or damage  
Checked condition of outdoor coils  
Cleaned off dust and debris from units  
Checked for faults and/or damage to units. All tested okay.

Independent Air had conducted Velocity tests on Extraction Fans serving the compactor pit. Awaiting reports.

**Comments / Recommendations**

**Equilibrium Air Conditioning Services Pty Limited**  
Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33701**  
**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 08/06/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Technician (Print Name):

Kyle Dempsey

Technician (Signature):



Licence No.

L141692

Customer (Print Name):

Rod Jones

Customer (Signature):



Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	13/07/2023		Pass
Notes	Checked condition of VSD cooling fan, checked condition of coil, checked over parameters, removed dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	18/07/2023		Pass
Notes	Washed filters Checked outdoor electrical connections Checked indoor operation All tested okay								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	18/07/2023		Pass
Notes	Washed filters Checked operation of outdoor unit Checked electrical connections on indoor & Outdoor units All tested okay								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	18/07/2023		Pass
Notes	Washed filters Checked outdoor operation Checked electrical connections on indoor& Outdoor All tested okay								
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSDJURN	0BLAPAJFA00098 V	Meeting room	18/07/2023		Pass
Notes	Washed filters Checked outdoor operations								

	Checked outdoor& indoor electrical connections All tested okay							
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	18/07/2023	Pass
Notes	Washed filters Checked indoor connections Checked outdoor operations & Electrical connections All tested okay							
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	18/07/2023	Pass
Notes	Washed filter Cleaned grille Checked operation of unit All tested okay							
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	18/07/2023	Pass
Notes	Washed filters Indoor unit requires cleaning impeller dirty also Condenser coil dirty All tested okay							

**Asset Register - Fans**

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass / Fail
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	13/07/2023		Pass
Test Readings	Inspect motor terminal boxes for loose connections and overheating. Renew or rectify burnt wiring and tighten connections. Check motor full load amps against nameplate rating and record. Check balance between phases:								
Notes	Found belts to be cracked. Had removed housing, removed cracked belts and loosened off motor. Placed new belts over pulleys and adjusted to correct tension. Re-aligned motor and tighten. Had greased motor and fan shaft bearings, removed and dust and debris from motor. Tested to run. All okay.								
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	13/07/2023		Pass
Test Readings	Inspect motor terminal boxes for loose connections and overheating. Renew or rectify burnt wiring and tighten connections. Check motor full load amps against nameplate rating and record. Check balance between phases:								

**Equilibrium Air Conditioning Services Pty Limited**  
 Unit 7, 38 Brookhollow Ave  
 Norwest, NSW 2153  
 Ph: 02 94394822 Fax:  
 ABN 51 844 035 531

**Asset Record - Job No. 33800**  
**Veolia Clyde**  
 Clyde Transfer Terminal  
 322 Parramatta road  
 Clyde NSW 2142

**Inspection Date:** 18/07/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Notes had checked condition of belts/pulleys/bearings, greased fan motor and fan shaft bearings, removed dust and debris from fan motor and housing. Tested to run. All okay.

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass / Fail
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	13/07/2023		Pass
Notes	Checked condition of VSD cooling fan, checked condition of coil, checked over parameters, removed dust and debris. All tested okay.								

**Description Of Work**

Attend Site and carry out maintenance for the month of July

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

**Kyle Dempsey (13/07/2023) - Work Note**

Conducted maintenance on 2x extraction fans and VSDs located above compactor pit.

Isolated power and alarm.

Checked condition of belts/pulleys/bearings

Greased fan motor and fan shaft bearings

Removed dust and debris from motor and housing.

**Equilibrium Air Conditioning Services Pty  
Limited**

Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

## **Asset Record - Job No. 33800**

**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 18/07/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

Tested fans to run. All okay.

Belts on extraction fan 1 were cracked  
Removed housing and loosened off motor to remove old belts and changeover with new.  
Once placed onto pulleys, adjusted belts to correct tension by re-aligning the fan motor.  
Once correct, tighten up fan motor and placed housing back over pulleys.  
Tested to run.

Checked condition of VSD cooling fans  
Checked condition of coils  
Checked over parameters.  
Also removed dust and debris from VSDs. All tested okay.

Maintenance to be completed on remaining assets on 18th July (AC units).

### **Steve Hortis (18/07/2023) - Technician Note**

Upon arrival washed filters wiped down grilles  
Checked indoor and out electrical connections  
Checked Remote controllers  
All tested okay

### **Note**

Weighbridge indoor unit requires cleaning indoor coil & Impeller very dirty  
Also condenser coil requires cleaning - Quote sent to Rod

**Equilibrium Air Conditioning Services Pty Limited**  
Unit 7, 38 Brookhollow Ave  
Norwest, NSW 2153  
Ph: 02 94394822 Fax:  
ABN 51 844 035 531

**Asset Record - Job No. 33800**  
**Veolia Clyde**  
Clyde Transfer Terminal  
322 Parramatta road  
Clyde NSW 2142

**Inspection Date:** 18/07/2023  
**Contact:** Bob Manevski  
**Phone:** (02) 9841 2802

**Comments / Recommendations**

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Technician (Print Name):

Steve Hortis



Technician (Signature):

Technician (Print Name):

Licence No.

L026231

Customer (Print Name):

Rod Jones



Customer (Signature):



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## **APPENDIX B:**

WEATHER DATA CALIBRATION REPORTS  
(JANUARY 2023, APRIL 2023 & JULY 2023)

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6/1/2023

Anea Ressos  
 Veolia Environmental Services (Australia) Pty Ltd

**Re – Quarterly service of weather stations**

Dear Anae,

As per our service agreement, on the 14/10/22 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field

were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 6/1/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	16.8	16.8
2m*	16.8	16.9
Relative Humidity*	84.9	85.7
Wind Speed	1.7 m/s at ground	2.4 m/s at 10 metres
Wind Direction	220	220
Solar Radiation	55	57
TBRG	10mm	20 tips
Battery/Solar	13.4	

\* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0730 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 6/1/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	16.0	16.1
2m*	16.0	15.9
Relative Humidity*	88.0	87.1
Wind Speed	2.0 m/s at ground (poor exposure at ground)	2.4 m/s at 10 metres.

Wind Direction	250	250
Solar Radiation	150	151
TBRG	10mm	20 tips
Battery/Solar	12.6	

\* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0945 EST as these were testing.

#### Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd  
ABN 32655577567  
Mob 0420316459  
Email [phil@hydrometric.com.au](mailto:phil@hydrometric.com.au)  
[www.hydrometric.com.au](http://www.hydrometric.com.au)



4/4/2023

Anea Ressos  
 Veolia Environmental Services (Australia) Pty Ltd

**Re – Quarterly service of weather stations**

Dear Anae,

As per our service agreement, on the 4/4/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 4/4/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	19.2	18.7
2m*	19.2	19.4
Relative Humidity*	84.7	85.1
Wind Speed	1.3 m/s at ground	2.1 m/s at 10 metres
Wind Direction	210	210
Solar Radiation	500	510
TBRG	10mm	20 tips
Battery/Solar	14.2	

\* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0830 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 4/4/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	22.4	21.6
2m*	22.4	21.2
Relative Humidity*	67.1	66.9
Wind Speed	1.9 m/s at ground (poor exposure at ground)	2.4 m/s at 10 metres.

Wind Direction	270	270
Solar Radiation	600	601
TBRG	10mm	20 tips
Battery/Solar	13.4	

\* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0940 EST as these were testing.

#### Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd  
ABN 32655577567  
Mob 0420316459  
Email [phil@hydrometric.com.au](mailto:phil@hydrometric.com.au)  
[www.hydrometric.com.au](http://www.hydrometric.com.au)

17/7/2023

Anae Ressos  
 Veolia Environmental Services (Australia) Pty Ltd

**Re – Quarterly service of weather stations**

Dear Anae,

As per our service agreement, on the 17/7/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 17/7/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	12.0	11.3
2m*	12.0	11.1
Relative Humidity*	87.2	88.0
Wind Speed	0 m/s at ground	0 m/s at 10 metres
Wind Direction	270	270
Solar Radiation	100	97
TBRG	10mm	20 tips
Battery/Solar	14.2	

\* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0810 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 17/7/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	17.8	18.0
2m*	17.8	16.0
Relative Humidity*	75.5	75.6
Wind Speed	0.8m/s at ground (poor exposure at ground)	1.7m/s at 10 metres.

Wind Direction	270	270
Solar Radiation	300	305
TBRG	10mm	20 tips
Battery/Solar	13.4	

\* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 1020 EST as these were testing.

#### Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

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**APPENDIX C:**  
FIELD AMBIENT ODOUR ASSESSMENT PLOT AND FIELD SHEET  
(5 JULY 2023)

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# THE ODOUR UNIT PTY LTD



Level 3, 12/56 Church Avenue  
MASCOT NSW 2020

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## Field Ambient Odour Assessment Log Sheet

**Date:** 05 July 2023

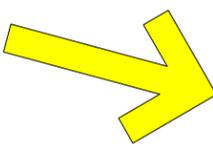
**Assessor:** J. Schulz

**Weather Conditions:** Light to moderate wind speeds blowing from the northwest. No rainfall observed.

**Survey Reference Plot No:** N1473L-XXXX

GRIF REF. POSITION	MEASUREMENT TIME PERIOD (hrs)	WIND DIRECTION	WIND SPEED (m/s)	ODOUR PRESENT (Y/N)	ODOUR CHARACTER	VDI 3940 INTENSITY SCALE 0-6	COMMENTS
1	13:15 – 13:20hrs	WNW	1 - 2 m/s	N	--	0	--
2	13:25 – 13:30hrs	WNW	1 – 2 m/s	N	--	0	--
3	13:33 – 13:38hrs	WNW	1 m/s	N	--	0	--
4	13:41 – 13:46hrs	WNW	1 – 2 m/s	N	--	0	--
5	13:49 – 13:54hrs	WNW	1 – 2 m/s	N	--	0	--
6	13:59 – 14:04hrs	WNW	1 – 3 m/s	N	--	0	--
7	14:11 – 14:16hrs	WNW	1 – 3 m/s	N	--	0	--



<b>DESCRIPTION</b> <b>Field Ambient Odour Assessment Survey</b> Modified German Standard VDI 3940		<b>LEGEND</b> German Intensity Scale VDI3882 ○ 0 Not detectable ● 1 Very weak ● 2 Weak ● 3 Distinct ● 4 Strong ● 5 Very strong ● 6 Extremely strong		 <b>Veolia (Australia) Pty Ltd</b> Clyde Transfer Terminal, Clyde, NSW Field Ambient Odour Assessment Survey <b>Survey Date:</b> 05 July 2023 <b>Survey Time Period:</b> 1315 hrs to 1416 hrs	
	<b>THE ODOUR UNIT PTY LTD</b> Level 3, 12/56 Church Avenue MASCOT, NSW 2020 Phone: (02) 9209 4420 <a href="http://www.odourunit.com.au">www.odourunit.com.au</a>	<b>DRAWN BY</b> I. FARRUGIA	<b>Odour Audit XXXX</b> Field Ambient Odour Assessment Survey	<b>Plot No.</b> N1473-XXXXI	
		<b>CHECKED</b> J. SCHULZ		<b>Job No.</b> N1473L	
		<b>APPROVED</b> J. SCHULZ			
		<b>Local wind direction</b> 		<b>Local wind conditions</b> Light to moderate wind speeds, with winds blowing from the west-north-west. No rainfall observed. Refer to <b>FAOA Logsheet N1473L-XXXXI</b> for details on recorded odour detections	